Introduction to Liberal Studies

Preview Reader



Liberal Studies Program | The University of Houston

Table of Contents

Table of Contents	ii
About this Reader	iii
The Wall	1
On Fairy-Stories	17
Nicomachean Ethics	56
Summa Theologica	82
The New Generation	92
The Varieties of Religious Experience	104
The Structure of Scientific Revolutions	134

About this Reader

The texts in this reader will serve as the basis for your Preview assignments in the Introduction to Liberal Studies (ILAS 2350) at the University of Houston. They range from a variety of disciplines, time periods, styles, and express a diversity answers to the basic philosophical-religious questions that every human being must answer.

Getting Started

Use your syllabus to guide you toward the specific reading assigned each week. As you read the text, careful annotate using the methods that you have learned in Mortimer Adler's *How to Read a Book*. In particular, ask yourself "What is the author's point?" "What does he want the reader to *understand?*"

As you read, be sure to underline key terms, key propositions, key characters and key actions. In your previews you will answer the three Basic Philosophic-Religious Questions (BPRQ's), remember that you will need to support those answers with evidence from the text. By reading actively using the methods provided by Adler, this will get easier to do as the course progresses.

The Wall

by Jean-Paul Sartre

They pushed us into a big white room and I began to blink because the light hurt my eyes. Then I saw a table and four men behind the table, civilians, looking over the papers. They had bunched another group of prisoners in the back and we had to cross the whole room to join them. There were several I knew and some others who must have been foreigners. The two in front of me were blond with round skulls: they looked alike. I supposed they were French. The smaller one kept hitching up his pants: nerves.

It lasted about three hours: I was dizzy and my head was empty; but the room was well heated and I found that pleasant enough: for the past 24 hours we hadn't stopped shivering. The guards brought the prisoners up to the table, one after the other. The four men asked each one his name and occupation. Most of the time they didn't go any further--or they would simply ask a question here and there: "Did you have anything to do with the sabotage of munitions?" Or "Where were you the morning of the 9th and what were you doing?" They didn't listen to the answers or at least didn't seem to. They were quiet for a moment and then looking straight in front of them began to write. They asked Tom if it were true he was in the International Brigade: Tom couldn't tell them otherwise because of the papers they found in his coat. They didn't ask Juan anything but they wrote for a long time after he told them his name.

"My brother Jose is the anarchist," Juan said "You know he isn't here any more. I don't belong to any party. I never had anything to do with politics."

They didn't answer. Juan went on, "I haven't done anything. I don't want to pay for somebody else."

His lips trembled. A guard shut him up and took him away. It was my turn.

"Your name is Pablo Ibbieta?"

"Yes."

The man looked at the papers and asked me "Where's Ramon Gris?"

"I don't know."

"You hid him in your house from the 6th to the 19th."

"No."

They wrote for a minute and then the guards took me out. In the corridor Tom and Juan were waiting between two guards. We started walking. Tom asked one of the guards, "So?"

"So what?" the guard said.

"Was that the cross-examination or the sentence?"

"Sentence" the guard said.

"What are they going to do with us?"

The guard answered dryly, "Sentence will be read in your cell."

As a matter of fact, our cell was one of the hospital cellars. It was terrifically cold there because of the drafts. We shivered all night and it wasn't much better during the day. I had spent the previous five days in a cell in a monastery, a sort of hole in the wall that must have dated from the middle ages: since there were a lot of prisoners and not much room, they locked us up anywhere. I didn't miss my cell; I hadn't suffered too much from the cold but I was alone; after a long time it gets irritating. In the cellar I had company. Juan hardly ever spoke: he was afraid and he was too young to have anything to say. But Tom was a good talker and he knew Spanish well.

There was a bench in the cellar and four mats. When they took us back we sat and waited in silence. After a long moment, Tom said, "We're screwed."

"I think so too," I said, "but I don't think they'll do anything to the kid."

"They don't have a thing against him, "said Tom. "He's the brother of a militiaman and that's all."

I looked at Juan: he didn't seem to hear. Tom went on, "You know what they do in Saragossa? They lay the men down on the road and run over them with trucks. A Moroccan deserter told us that. They said it was to save ammunition."

"It doesn't save gas." I said.

I was annoyed at Tom: he shouldn't have said that.

"Then there's officers walking along the road," he went on, "supervising it all. They stick their hands in their pockets and smoke cigarettes. You think they finish off the guys? Hell no. They let them scream. Sometimes for an hour. The Moroccan said he damned near puked the first time."

"I don't believe they'll do that here," I said. "Unless they're really short on ammunition."

Day was coming in through four air holes and a round opening they had made in the ceiling on the left, and you could see the sky through it. Through this hole, usually closed

by a trap, they unloaded coal into the cellar. Just below the hole there was a big pile of coal dust: it had been used to heat the hospital, but since the beginning of the war the patients were evacuated and the coal stayed there, unused; sometimes it even got rained on because they had forgotten to close the trap.

Tom began to shiver. "Good Jesus Christ, I'm cold," he said. "Here it goes again."

He got up and began to do exercises. At each movement his shirt opened on his chest, white and hairy. He lay on his back, raised his legs in the air and bicycled. I saw his great rump trembling. Tom was husky but he had too much fat. I thought how rifle bullets or the sharp points of bayonets would soon be sunk into this mass of tender flesh as in a lump of butter. It wouldn't have made me feel like that if he'd been thin.

I wasn't exactly cold, but I couldn't feel my arms and shoulders any more. Sometimes I had the impression I was missing something and began to look around for my coat and then suddenly remembered they hadn't given me a coat. It was rather uncomfortable. They took our clothes and gave them to their soldiers leaving us only our shirts—and those canvas pants that hospital patients wear in the middle of summer. After a while Tom got up and sat next to me, breathing heavily.

"Warmer?"

"Good Christ, no. But I'm out of wind."

Around eight o'clock in the evening a major came in with two *falangistas*. He had a sheet of paper in his hand. He asked the guard, "What are the names of those three?"

"Steinbock, Ibbieta and Mirbal," the guard said.

The major put on his eyeglasses and scanned the list: "Steinbock... Steinbock... Oh yes... You are sentenced to death. You will be shot tomorrow morning." He went on looking. "The other two as well."

"That's not possible," Juan said. "Not me." The major looked at him amazed. "What's your name?"

"Juan Mirbal" he said.

"Well your name is there," said the major. "You're sentenced."

"I didn't do anything," Juan said.

The major shrugged his shoulders and turned to Tom and me.

"You're Basque?"

"Nobody is Basque."

He looked annoyed. "They told me there were three Basques. I'm not going to waste my time running after them. Then naturally you don't want a priest?"

We didn't even answer.

He said, "A Belgian doctor is coming shortly. He is authorized to spend the night with you." He made a military salute and left.

"What did I tell you," Tom said. "We get it."

"Yes," I said, "it's a rotten deal for the kid."

I said that to be decent but I didn't like the kid. His face was too thin and fear and suffering had disfigured it, twisting all his features. Three days before he was a smart sort of kid, not too bad; but now he looked like an old fairy and I thought how he'd never be young again, even if they were to let him go. It wouldn't have been too hard to have a little pity for him but pity disgusts me, or rather it horrifies me. He hadn't said anything more but he had turned grey; his face and hands were both grey. He sat down again and looked at the ground with round eyes. Tom was good hearted, he wanted to take his arm, but the kid tore himself away violently and made a face.

"Let him alone," I said in a low voice, "you can see he's going to blubber."

Tom obeyed regretfully: he would have liked to comfort the kid, it would have passed his time and he wouldn't have been tempted to think about himself. But it annoyed me: I'd never thought about death because I never had any reason to, but now the reason was here and there was nothing to do but think about it.

Tom began to talk. "So you think you've knocked guys off, do you?" he asked me. I didn't answer. He began explaining to me that he had knocked off six since the beginning of August; he didn't realize the situation and I could tell he didn't want to realize it. I hadn't quite realized it myself, I wondered if it hurt much, I thought of bullets, I imagined their burning hail through my body. All that was beside the real question; but I was calm: we had all night to understand. After a while Tom stopped talking and I watched him out of the corner of my eye; I saw he too had turned grey and he looked rotten; I told myself "Now it starts." It was almost dark, a dim glow filtered through the air holes and the pile of coal and made a big stain beneath the spot of sky; I could already see a star through the hole in the ceiling: the night would be pure and icy.

The door opened and two guards came in, followed by a blonde man in a tan uniform. He saluted us. "I am the doctor," he said. "I have authorization to help you in these trying hours."

He had an agreeable and distinguished voice. I said, "What do you want here?"

"I am at your disposal. I shall do all I can to make your last moments less difficult."

"What did you come here for? There are others, the hospital's full of them."

"I was sent here," he answered with a vague look. "Ah! Would you like to smoke?" he added hurriedly, "I have cigarettes and even cigars."

He offered us English cigarettes and puros, but we refused. I looked him in the eyes and he seemed irritated. I said to him, "You aren't here on an errand of mercy. Besides, I know you. I saw you with the fascists in the barracks yard the day I was arrested."

I was going to continue, but something surprising suddenly happened to me; the presence of this doctor no longer interested me. Generally when I'm on somebody I don't let go. But the desire to talk left me completely; I shrugged and turned my eyes away. A little later I raised my head; he was watching me curiously. The guards were sitting on a mat. Pedro, the tall thin one, was twiddling his thumbs, the other shook his head from time to time to keep from falling asleep.

"Do you want a light?" Pedro suddenly asked the doctor. The other nodded "Yes". I think he was about as smart as a log, but he surely wasn't bad. Looking in his cold blue eyes it seemed to me that his only sin was lack of imagination. Pedro went out and came back with an oil lamp which he set on the corner of the bench. It gave a bad light but it was better than nothing: they had left us in the dark the night before. For a long time I watched the circle of light the lamp made on the ceiling. I was fascinated. Then suddenly I woke up, the circle of light disappeared and I felt myself crushed under an enormous weight. It was not the thought of death, or fear; it was nameless. My cheeks burned and my head ached.

I shook myself and looked at my two friends. Tom had hidden his face in his hands. I could only see the fat white nape of his neck. Little Juan was the worst, his mouth was open and his nostrils trembled. The doctor went to him and put his hand on his shoulder to comfort him: but his eyes stayed cold. Then I saw the Belgian's hand drop stealthily along Juan's arm, down to the wrist. Juan paid no attention. The Belgian took his wrist between three fingers, distractedly, the same time drawing back a little and turning his back to me. But I leaned backward and saw him take a watch from his pocket and look at it for a moment, never letting go of the wrist. After a minute he let the hand fall inert and went and leaned his back against the wall, then, as if he suddenly remembered something very important which had to be jotted down on the spot, he took a notebook from his pocket and wrote a few lines. "Bastard," I thought angrily, "let him come and take my pulse. I'll shove my fist in his rotten face."

He didn't come but I felt him watching me. I raised my head and returned his look. Impersonally, he said to me "Doesn't it seem cold to you here?" He looked cold, he was blue.

I'm not cold, "I told him."

He never took his hard eyes off me. Suddenly I understood and my hands went to my face: I was drenched in sweat. In this cellar, in the midst of winter, in the midst of drafts, I was sweating. I ran my hands through my hair, gummed together with perspiration: at the same time I saw my shirt was damp and sticking to my skin: I had been dripping for an hour and hadn't felt it. But that swine of a Belgian hadn't missed a thing; he had seen the drops rolling down my cheeks and thought: this is the manifestation of an almost pathological state of terror; and he had felt normal and proud of being alive because he was cold. I wanted to stand up and smash his face but no sooner had I made the slightest gesture than my rage and shame were wiped out; I fell back on the bench with indifference.

I satisfied myself by rubbing my neck with my handkerchief because now I felt the sweat dropping from my hair onto my neck and it was unpleasant. I soon gave up rubbing, it was useless; my handkerchief was already soaked and I was still sweating. My buttocks were sweating too and my damp trousers were glued to the bench.

Suddenly Juan spoke. "You're a doctor?"

"Yes," the Belgian said.

"Does it hurt... very long?"

"Huh? When...? Oh, no" the Belgian said paternally "Not at all. It's over quickly." He acted as though he were calming a cash customer.

"But I... they told me... sometimes they have to fire twice."

"Sometimes," the Belgian said, nodding. "It may happen that the first volley reaches no vital organs."

"Then they have to reload their rifles and aim all over again?" He thought for a moment and then added hoarsely, "That takes time!"

He had a terrible fear of suffering, it was all he thought about: it was his age. I never thought much about it and it wasn't fear of suffering that made me sweat.

I got up and walked to the pile of coal dust. Tom jumped up and threw me a hateful look: I had annoyed him because my shoes squeaked. I wondered if my face looked as frightened as his: I saw he was sweating too. The sky was superb, no light filtered into the dark corner and I had only to raise my head to see the Big Dipper. But it wasn't like it had

been: the night before I could see a great piece of sky from my monastery cell and each hour of the day brought me a different memory. Morning, when the sky was a hard, light blue, I thought of beaches on the Atlantic: at noon I saw the sun and I remembered a bar in Seville where I drank manzanilla and ate olives and anchovies: afternoons I was in the shade and I thought of the deep shadow which spreads over half a bull-ring leaving the other half shimmering in sunlight: it was really hard to see the whole world reflected in the sky like that. But now I could watch the sky as much as I pleased, it no longer evoked anything in me. I liked that better. I came back and sat near Tom. A long moment passed.

Tom began speaking in a low voice. He had to talk, without that he wouldn't have been able to recognize himself in his own mind. I thought he was talking to me but he wasn't looking at me. He was undoubtedly afraid to see me as I was, grey and sweating: we were alike and worse than mirrors of each other. He watched the Belgian, the living.

"Do you understand?" he said. "I don't understand."

I began to speak in a low voice too. I watched the Belgian. "Why? What's the matter?"

"Something is going to happen to us than I can't understand."

There was a strange smell about Tom. It seemed to me I was more sensitive than usual to odors. I grinned. "You'll understand in a while."

"It isn't clear," he said obstinately. "I want to be brave but first I have to know... Listen, they're going to take us into the courtyard. Good. They're going to stand up in front of us. How many?"

"I don't know. Five or eight. Not more."

"All right. There'll be eight. Someone'll holler 'aim!' and I'll see eight rifles looking at me. I'll think how I'd like to get inside the wall, I'll push against it with my back. . . . with every ounce of strength I have, but the wall will stay, like in a nightmare. I can imagine all that. If you only knew how well I can imagine it."

"All right, all right!" I said. "I can imagine it too."

"It must hurt like hell. You know they aim at the eyes and the mouth to disfigure you," he added mechanically. "I can feel the wounds already. I've had pains in my head and in my neck for the past hour. Not real pains. Worse. This is what I'm going to feel tomorrow morning. And then what?"

I well understood what he meant but I didn't want to act as if I did. I had pains too, pains in my body like a crowd of tiny scars. I couldn't get used to it. But I was like him. I attached no importance to it. "After," I said. "you'll be pushing up daisies."

He began to talk to himself: he never stopped watching the Belgian. The Belgian didn't seem to be listening. I knew what he had come to do; he wasn't interested in what we thought; he came to watch our bodies, bodies dying in agony while yet alive.

"It's like a nightmare," Tom was saying. "You want to think something, you always have the impression that it's alright, that you're going to understand and then it slips, it escapes you and fades away. I tell myself there will be nothing afterwards. But I don't understand what it means. Sometimes I almost can... and then it fades away and I start thinking about the pains again, bullets, explosions. I'm a materialist, I swear it to you; I'm not going crazy. But something's the matter. I see my corpse; that's not hard but I'm the one who sees it, with my eyes. I've got to think... think that I won't see anything anymore and the world will go on for the others. We aren't made to think that, Pablo. Believe me: I've already stayed up a whole night waiting for something. But this isn't the same: this will creep up behind us, Pablo, and we won't be able to prepare for it."

"Shut up," I said, "Do you want me to call a priest?"

He didn't answer. I had already noticed he had the tendency to act like a prophet and call me Pablo, speaking in a toneless voice. I didn't like that: but it seems all the Irish are that way. I had the vague impression he smelled of urine. Fundamentally, I hadn't much sympathy for Tom and I didn't see why, under the pretext of dying together, I should have any more. It would have been different with some others. With Ramon Gris, for example. But I felt alone between Tom and Juan. I liked that better, anyhow: with Ramon I might have been more deeply moved. But I was terribly hard just then and I wanted to stay hard.

He kept on chewing his words, with something like distraction. He certainly talked to keep himself from thinking. He smelled of urine like an old prostate case. Naturally, I agreed with him. I could have said everything he said: it isn't natural to die. And since I was going to die, nothing seemed natural to me, not this pile of coal dust, or the bench, or Pedro's ugly face. Only it didn't please me to think the same things as Tom. And I knew that, all through the night, every five minutes, we would keep on thinking things at the same time. I looked at him sideways and for the first time he seemed strange to me: he wore death on his face. My pride was wounded: for the past 24 hours I had lived next to Tom, I had listened to him. I had spoken to him and I knew we had nothing in common. And now we looked as much alike as twin brothers, simply because we were going to die together. Tom took my hand without looking at me.

"Pablo. I wonder... I wonder if it's really true that everything ends."

I took my hand away and said, "Look between your feet, you pig."

There was a big puddle between his feet and drops fell from his pants-leg.

"What is it," he asked, frightened.

"You're pissing in your pants," I told him.

"It isn't true," he said furiously. "I'm not pissing. I don't feel anything."

The Belgian approached us. He asked with false solicitude. "Do you feel ill?"

Tom did not answer. The Belgian looked at the puddle and said nothing.

"I don't know what it is," Tom said ferociously. "But I'm not afraid. I swear I'm not afraid."

The Belgian did not answer. Tom got up and went to piss in a corner. He came back buttoning his fly, and sat down without a word. The Belgian was taking notes.

All three of us watched him because he was alive. He had the motions of a living human being, the cares of a living human being; he shivered in the cellar the way the living are supposed to shiver; he had an obedient, well-fed body. The rest of us hardly felt ours--not in the same way anyhow. I wanted to feel my pants between my legs but I didn't dare; I watched the Belgian, balancing on his legs, master of his muscles, someone who could think about tomorrow. There we were, three bloodless shadows; we watched him and we sucked his life like vampires.

Finally he went over to little Juan. Did he want to feel his neck for some professional motive or was he obeying an impulse of charity? If he was acting by charity it was the only time during the whole night.

He caressed Juan's head and neck. The kid let himself be handled, his eyes never leaving him, then suddenly he seized the hand and looked at it strangely. He held the Belgian's hand between his own two hands and there was nothing pleasant about them, two grey pincers gripping this fat and reddish hand. I suspected what was going to happen and Tom must have suspected it too: but the Belgian didn't see a thing, he smiled paternally. After a moment the kid brought the fat red hand to his mouth and tried to bite it. The Belgian pulled away quickly and stumbled back against the wall. For a second he looked at us with horror, he must have suddenly understood that we were not men like him. I began to laugh and one of the guards jumped up. The other was asleep, his wide open eyes were blank.

I felt relaxed and over-excited at the same time. I didn't want to think any more about what would happen at dawn, at death. It made no sense. I only found words or emptiness. But as soon as I tried to think of anything else I saw rifle barrels pointing at me. Perhaps I lived through my execution twenty times; once I even thought it was for good: I must have slept a minute. They were dragging me to the wall and I was struggling; I was asking for mercy. I woke up with a start and looked at the Belgian: I was afraid I might have cried out in my sleep. But he was stroking his mustache, he hadn't noticed anything. If I

had wanted to, I think I could have slept a while; I had been awake for 48 hours. I was at the end of my rope. But I didn't want to lose two hours of life; they would come to wake me up at dawn. I would follow them, stupefied with sleep and I would have croaked without so much as an "Oof!"; I didn't want that. I didn't want to die like an animal, I wanted to understand. Then I was afraid of having nightmares. I got up, walked back and forth, and, to change my ideas, I began to think about my past life. A crowd of memories came back to me pell-mell. There were good and bad ones--or at least I called them that before. There were faces and incidents. I saw the face of a little novillero who was gored in Valencia during the Feria, the face of one of my uncles, the face of Ramon Gris. I remembered my whole life: how I was out of work for three months in 1926, how I almost starved to death. I remembered a night I spent on a bench in Granada: I hadn't eaten for three days. I was angry, I didn't want to die. That made me smile. How madly I ran after happiness, after women, after liberty. Why? I wanted to free Spain, I admired Pi y Margall, I joined the anarchist movement, I spoke in public meetings: I took everything as seriously as if I were immortal.

At that moment I felt that I had my whole life in front of me and I thought, "It's a damned lie." It was worth nothing because it was finished. I wondered how I'd been able to walk, to laugh with the girls: I wouldn't have moved so much as my little finger if I had only imagined I would die like this. My life was in front of me, shut, closed, like a bag and yet everything inside of it was unfinished. For an instant I tried to judge it. I wanted to tell myself, this is a beautiful life. But I couldn't pass judgment on it; it was only a sketch; I had spent my time counterfeiting eternity, I had understood nothing. I missed nothing: there were so many things I could have missed, the taste of manzanilla or the baths I took in summer in a little creek near Cadiz; but death had disenchanted everything.

The Belgian suddenly had a bright idea. "My friends," he told us, "I will undertake--if the military administration will allow it--to send a message for you, a souvenir to those who love you... "

Tom mumbled, "I don't have anybody."

I said nothing. Tom waited an instant then looked at me with curiosity. "You don't have anything to say to Concha?"

"No."

I hated this tender complicity: it was my own fault, I had talked about Concha the night before. I should have controlled myself. I was with her for a year. Last night I would have given an arm to see her again for five minutes. That was why I talked about her, it was stronger than I was. Now I had no more desire to see her, I had nothing more to say to her. I would not even have wanted to hold her in my arms: my body filled me with horror because it was grey and sweating—and I wasn't sure that her body didn't fill me with

horror. Concha would cry when she found out I was dead, she would have no taste for life for months afterward. But I was still the one who was going to die. I thought of her soft, beautiful eyes. When she looked at me something passed from her to me. But I knew it was over: if she looked at me now the look would stay in her eyes, it wouldn't reach me. I was alone.

Tom was alone too but not in the same way. Sitting cross-legged, he had begun to stare at the bench with a sort of smile, he looked amazed. He put out his hand and touched the wood cautiously as if he were afraid of breaking something, then drew back his hand quickly and shuddered. If I had been Tom I wouldn't have amused myself by touching the bench; this was some more Irish nonsense, but I too found that objects had a funny look: they were more obliterated, less dense than usual. It was enough for me to look at the bench, the lamp, the pile of coal dust, to feel that I was going to die. Naturally I couldn't think clearly about my death but I saw it everywhere, on things, in the way things fell back and kept their distance, discreetly, as people who speak quietly at the bedside of a dying man. It was his death which Tom had just touched on the bench.

In the state I was in, if someone had come and told me I could go home quietly, that they would leave me my life whole, it would have left me cold: several hours or several years of waiting is all the same when you have lost the illusion of being eternal. I clung to nothing, in a way I was calm. But it was a horrible calm--because of my body; my body, I saw with its eyes, I heard with its ears, but it was no longer me; it sweated and trembled by itself and I didn't recognize it any more. I had to touch it and look at it to find out what was happening, as if it were the body of someone else. At times I could still feel it, I felt sinkings, and fallings, as when you're in a plane taking a nose dive, or I felt my heart beating. But that didn't reassure me. Everything that came from my body was all cockeyed. Most of the time it was quiet and I felt no more than a sort of weight, a filthy presence against me; I had the impression of being tied to an enormous vermin. Once I felt my pants and I felt they were damp; I didn't know whether it was sweat or urine, but I went to piss on the coal pile as a precaution.

The Belgian took out his watch, looked at it. He said, "It is three-thirty."

Bastard! He must have done it on purpose. Tom jumped; we hadn't noticed time was running out; night surrounded us like a shapeless, somber mass. I couldn't even remember that it had begun.

Little Juan began to cry. He wrung his hands, pleaded, "I don't want to die. I don't want to die."

He ran across the whole cellar waving his arms in the air then fell sobbing on one of the mats. Tom watched him with mournful eyes, without the slightest desire to console him.

Because it wasn't worth the trouble: the kid made more noise than we did, but he was less touched: he was like a sick man who defends himself against his illness by fever.

It's much more serious when there isn't any fever. He wept: I could clearly see he was pitying himself; he wasn't thinking about death. For one second, one single second, I wanted to weep myself, to weep with pity for myself. But the opposite happened: I glanced at the kid, I saw his thin sobbing shoulders and I felt inhuman: I could pity neither the others nor myself. I said to myself, "I want to die cleanly."

Tom had gotten up, he placed himself just under the round opening and began to watch for daylight. I was determined to die cleanly and I only thought of that. But ever since the doctor told us the time, I felt time flying, flowing away drop by drop.

It was still dark when I heard Tom's voice: "Do you hear them?"

Men were marching in the courtyard.

"Yes."

"What the hell are they doing? They can't shoot in the dark."

After a while we heard no more. I said to Tom, "It's day."

Pedro got up, yawning, and came to blow out the lamp. He said to his buddy, "Cold as hell."

The cellar was all grey. We heard shots in the distance.

"It's starting," I told Tom. "They must do it in the court in the rear."

Tom asked the doctor for a cigarette. I didn't want one; I didn't want cigarettes or alcohol. From that moment on they didn't stop firing.

"Do you realize what's happening," Tom said.

He wanted to add something but kept quiet, watching the door. The door opened and a lieutenant came in with four soldiers. Tom dropped his cigarette.

"Steinbock?"

Tom didn't answer. Pedro pointed him out.

"Juan Mirbal?"

"On the mat."

"Get up," the lieutenant said.

Juan did not move. Two soldiers took him under the arms and set him on his feet. But he fell as soon as they released him.

The soldiers hesitated.

"He's not the first sick one," said the lieutenant. "You two carry him: they'll fix it up down there."

He turned to Tom. "Let's go."

Tom went out between two soldiers. Two others followed, carrying the kid by the armpits. He hadn't fainted; his eyes were wide open and tears ran down his cheeks. When I wanted to go out the lieutenant stopped me.

"You Ibbieta?"

"Yes."

"You wait here: they'll come for you later."

They left. The Belgian and the two jailers left too, I was alone. I did not understand what was happening to me but I would have liked it better if they had gotten it over with right away. I heard shots at almost regular intervals; I shook with each one of them. I wanted to scream and tear out my hair. But I gritted my teeth and pushed my hands in my pockets because I wanted to stay clean.

After an hour they came to get me and led me to the first floor, to a small room that smelt of cigars and where the heat was stifling. There were two officers sitting smoking in the armchairs, papers on their knees.

"You're Ibbieta?"

"Yes."

"Where is Ramon Gris?"

"I don't know."

The one questioning me was short and fat. His eyes were hard behind his glasses. He said to me, "Come here."

I went to him. He got up and took my arms, staring at me with a look that should have pushed me into the earth. At the same time he pinched my biceps with all his might. It wasn't to hurt me, it was only a game: he wanted to dominate me. He also thought he had to blow his stinking breath square in my face. We stayed for a moment like that, and I almost felt like laughing. It takes a lot to intimidate a man who is going to die; it didn't

work. He pushed me back violently and sat down again. He said, "It's his life against yours. You can have yours if you tell us where he is."

These men dolled up with their riding crops and boots were still going to die. A little later than I, but not too much. They busied themselves looking for names in their crumpled papers, they ran after other men to imprison or suppress them: they had opinions on the future of Spain and on other subjects. Their little activities seemed shocking and burlesqued to me; I couldn't put myself in their place. I thought they were insane. The little man was still looking at me, whipping his boots with the riding crop. All his gestures were calculated to give him the look of a live and ferocious beast.

"So? You understand?"

"I don't know where Gris is," I answered. "I thought he was in Madrid."

The other officer raised his pale hand indolently. This indolence was also calculated. I saw through all their little schemes and I was stupefied to find there were men who amused themselves that way.

"You have a quarter of an hour to think it over," he said slowly. "Take him to the laundry, bring him back in fifteen minutes. If he still refuses he will be executed on the spot."

They knew what they were doing: I had passed the night in waiting; then they had made me wait an hour in the cellar while they shot Tom and Juan and now they were locking me up in the laundry; they must have prepared their game the night before. They told themselves that nerves eventually wear out and they hoped to get me that way. They were badly mistaken. In the laundry I sat on a stool because I felt very weak and I began to think. But not about their proposition. Of course I knew where Gris was; he was hiding with his cousins, four kilometers from the city. I also knew that I would not reveal his hiding place unless they tortured me (but they didn't seem to be thinking about that). All that was perfectly regulated, definite and in no way interested me. Only I would have liked to understand the reasons for my conduct. I would rather die than give up Gris. Why? I didn't like Ramon Gris any more. My friendship for him had died a little while before dawn at the same time as my love for Concha, at the same time as my desire to live. Undoubtedly I thought highly of him: he was tough. But it was not for this reason that I consented to die in his place; his life had no more value than mine; no life had value. They were going to slap a man up against a wall and shoot at him till he died, whether it was I or Gris or somebody else made no difference. I knew he was more useful than I to the cause of Spain but I thought to hell with Spain and anarchy; nothing was important. Yet I was there, I could save my skin and give up Gris and I refused to do it. I found that somehow comic; it was obstinacy. I thought, "I must be stubborn!" And a droll sort of gaiety spread over me.

They came for me and brought me back to the two officers. A rat ran out from under my feet and that amused me. I turned to one of the *falangistas* and said, "Did you see the rat?"

He didn't answer. He was very sober, he took himself seriously. I wanted to laugh but I held myself back because I was afraid that once I got started I wouldn't be able to stop. The *falangista* had a mustache. I said to him again, "You ought to shave off your mustache, idiot."I thought it funny that he would let the hairs of his living being invade his face. He kicked me without great conviction and I kept quiet.

"Well," said the fat officer, "have you thought about it?"

I looked at them with curiosity, as insects of a very rare species. I told them, "I know where he is. He is hidden in the cemetery. In a vault or in the grave diggers' shack."

It was a farce. I wanted to see them stand up, buckle their belts and give orders busily. They jumped to their feet. "Let's go. Molés, go get fifteen men from Lieutenant Lopez. You," the fat man said, "I'll let you off if you're telling the truth, but it'll cost you plenty if you're making monkeys out of us."

"They left in a great clatter and I waited peacefully under the guard of *falangistas*. From time to time I smiled, thinking about the spectacle they would make. I felt stunned and malicious. I imagined them lifting up tombstones, opening the doors of the vaults one by one. I represented this situation to myself as if I had been someone else: this prisoner obstinately playing the hero, these grim *falangistas* with their mustaches and their men in uniform running among the graves; it was irresistibly funny. After half an hour the little fat man came back alone. I thought he had come to give the orders to execute me. The others must have stayed in the cemetery.

The officer looked at me. He didn't look at all sheepish. "Take him into the big courtyard with the others," he said. "After the military operations a regular court will decide what happens to him."

"Then they're not... not going to shoot me?..."

"Not now, anyway. What happens afterwards is none of my business."

I still didn't understand. I asked, "But why...?"

He shrugged his shoulders without answering and the soldiers took me away. In the big courtyard there were about a hundred prisoners, women, children and a few old men. I began walking around the central grass plot, I was stupefied. At noon they let us eat in the mess hall. Two or three people questioned me. I must have known them, but I didn't answer: I didn't even know where I was.

Around evening they pushed about ten new prisoners into the court. I recognized Garcia, the baker. He said, "What damned luck you have! I didn't think I'd see you alive."

"They sentenced me to death,"I said, "and then they changed their minds. I don't know why."

"They arrested me at two o'clock," Garcia said.

"Why?" Garcia had nothing to do with politics.

"I don't know," he said. "They arrest everybody who doesn't think the way they do." He lowered his voice. "They got Gris."

I began to tremble. "When?"

"This morning. He messed it up. He left his cousin's on Tuesday because they had an argument. There were plenty of people to hide him but he didn't want to owe anything to anybody. He said, 'I'd go and hide in Ibbieta's place, but they got him, so I'll go hide in the cemetery."

"In the cemetery?"

"Yes. What a fool. Of course they went by there this morning, that was sure to happen. They found him in the gravediggers' shack. He shot at them and they got him."

"In the cemetery!"

Everything began to spin and I found myself sitting on the ground: I laughed so hard I cried...

On Fairy-Stories

by J.R.R. Tolkien

I propose to speak about fairy-stories, though I am aware that this is a rash adventure. Faerie is a perilous land, and in it are pitfalls for the unwary and dungeons for the overbold. And overbold I may be accounted, for though I have been a lover of fairy-stories since I learned to read, and have at times thought about them, I have not studied them professionally. I have been hardly more than a wandering explorer (or trespasser) in the land, full of wonder but not of information.

The realm of fairy-story is wide and deep and high and filled with many things: all manner of beasts and birds are found there; shoreless seas and stars uncounted; beauty that is an enchantment, and an ever-present peril; both joy and sorrow as sharp as swords. In that realm a man may, perhaps, count himself fortunate to have wandered, but its very richness and strangeness tie the tongue of a traveller who would report them. And while he is there it is dangerous for him to ask too many questions, lest the gates should be shut and the keys be lost.

There are, however, some questions that one who is to speak about fairy-stories must expect to answer, or attempt to answer, whatever the folk of Faërie may think of his impertinence. For instance: What are fairy-stories? What is their origin? What is the use of them? I will try to give answers to these questions, or such hints of answers to them as I have gleaned—primarily from the stories themselves, the few of all their multitude that I know.

Fairy-story

What is a fairy-story? In this case you will turn to the Oxford English Dictionary in vain. It contains no reference to the combination fairy-story, and is unhelpful on the subject of fairies generally. In the Supplement, fairy-tale is recorded since the year 1750, and its leading sense is said to be (a) a tale about fairies, or generally a fairy legend; with developed senses, (b) an unreal or incredible story, and (c) a falsehood.

The last two senses would obviously make my topic hopelessly vast. But the first sense is too narrow. Not too narrow for an essay; it is wide enough for many books, but too narrow to cover actual usage. Especially so, if we accept the lexicographer's definition of fairies: "supernatural beings of diminutive size, in popular belief supposed to possess magical powers and to have great influence for good or evil over the affairs of man."

Supernatural is a dangerous and difficult word in any of its senses, looser or stricter. But to fairies it can hardly be applied, unless super is taken merely as a superlative prefix. For it is man who is, in contrast to fairies, supernatural (and often of diminutive stature); whereas they are natural, far more natural than he. Such is their doom. The road to fairyland is not the road to Heaven; nor even to Hell, I believe, though some have held that it may lead thither indirectly by the Devil's tithe.

O see ye not you narrow road So thick beset wi'thorns and briers? That is the path of Righteousness, Though after it but few inquires.

And see ye not yon braid, braid road
That lies across the lily leven?
That is the path of Wickedness,
Though some call it the Road to Heaven.

And see ye not yon bonny road
That winds about yon fernie brae?
That is the road to fair Elfland,
Where thou and I this night maun gae.

As for diminutive size: I do not deny that the notion is a leading one in modern use. I have often thought that it would be interesting to try to find out how that has come to be so; but my knowledge is not sufficient for a certain answer. Of old there were indeed some inhabitants of Faerie that were small (though hardly diminutive), but smallness was not characteristic of that people as a whole. The diminutive being, elf or fairy, is (I guess) in England largely a sophisticated product of literary fancy. It is perhaps not unnatural that in England, the land where the love of the delicate and fine has often reappeared in art, fancy should in this matter turn towards the dainty and diminutive, as in France it went to court and put on powder and diamonds. Yet I suspect that this flower-and-butterfly minuteness was also a product of "rationalization," which transformed the glamour of Elfland into mere finesse, and invisibility into a fragility that could hide in a cowslip or shrink behind a blade of grass. It seems to become fashionable soon after the great voyages had begun to make the world seem too narrow to hold both men and elves; when the magic land of Hy Breasail in the West had become the mere Brazils, the land of reddye-wood. In any case it was largely a literary business in which William Shakespeare and Michael Drayton played a part. Drayton's Nymphidia is one ancestor of that long line of flower-fairies and fluttering sprites with antennae that I so disliked as a child, and which my children in their turn detested. Andrew Lang had similar feelings. In the preface to the Lilac Fairy Book he refers to the tales of tiresome contemporary authors: "they always begin with a little boy or girl who goes out and meets the fairies of polyanthuses and

gardenias and apple-blossom. . . . These fairies try to be funny and fail; or they try to preach and succeed." But the business began, as I have said, long before the nineteenth century, and long ago achieved tiresomeness, certainly the tiresomeness of trying to be funny and failing. Drayton's Nymphidia is, considered as a fairy-story (a story about fairies), one of the worst ever written. The palace of Oberon has walls of spider's legs,

And windows of the eyes of cats, And for the roof, instead of slats, Is covered with the wings of bats.

The knight Pigwiggen rides on a frisky earwig, and sends his love, Queen Mab, a bracelet of emmets' eyes, making an assignation in a cowslip-flower. But the tale that is told amid all this prettiness is a dull story of intrigue and sly go-betweens; the gallant knight and angry husband fall into the mire, and their wrath is stilled by a draught of the waters of Lethe. It would have been better if Lethe had swallowed the whole affair. Oberon, Mab, and Pigwiggen may be diminutive elves or fairies, as Arthur, Guinevere, and Lancelot are not; but the good and evil story of Arthur's court is a "fairy-story" rather than this tale of Oberon. Fairy, as a noun more or less equivalent to elf, is a relatively modern word, hardly used until the Tudor period. The first quotation in the Oxford Dictionary (the only one before A.D.1450) is significant. It is taken from the poet Gower: as he were a faierie. But this Gower did not say. He wrote as he were of faierie, "as if he were come from Faërie." Gower was describing a young gallant who seeks to bewitch the hearts of the maidens in church.

His croket kembd and thereon set A Nouche with a chapelet, Or elles one of grene leves Which late com out of the greves, Al for he sholde seme freissh; And thus he loketh on the fteissh, Riht as an hauk which hath a sihte Upon the foul ther he schal lihte, And as he were of faierie He scheweth him tofore here yhe.

This is a young man of mortal blood and bone; but he gives a much better picture of the inhabitants of Elf-land than the definition of a "fairy" under which he is, by a double error, placed. For the trouble with the real folk of Faerie is that they do not always look like what they are; and they put on the pride and beauty that we would fain wear ourselves. At least part of the magic that they wield for the good or evil of man is power to play on the desires of his body and his heart. The Queen of Elfland, who carried off Thomas the Rhymer upon her milk-white steed swifter than the wind, came riding by the

Eildon Tree as a lady, if one of enchanting beauty. So that Spenser was in the true tradition when he called the knights of his Faerie by the name of Elfe. It belonged to such knights as Sir Guyon rather than to Pigwiggen armed with a hornet's sting.

Now, though I have only touched (wholly inadequately) on elves and fairies, I must turn back; for I have digressed from my proper theme: fairy-stories. I said the sense "stories about fairies" was too narrow. It is too narrow, even if we reject the diminutive size, for fairy-stories are not in normal English usage stories about fairies or elves, but stories about Fairy, that is Faerie, the realm or state in which fairies have their being. Faerie contains many things besides elves and fays, and besides dwarfs, witches, trolls, giants, or dragons: it holds the seas, the sun, the moon, the sky; and the earth, and all things that are in it: tree and bird, water and stone, wine and bread, and ourselves, mortal men, when we are enchanted.

Stories that are actually concerned primarily with "fairies," that is with creatures that might also in modern English be called "elves," are relatively rare, and as a rule not very interesting. Most good "fairy-stories" are about the adventures of men in the Perilous Realm or upon its shadowy marches. Naturally so; for if elves are true, and really exist independently of our tales about them, then this also is certainly true: elves are not primarily concerned with us, nor we with them. Our fates are sundered, and our paths seldom meet. Even upon the borders of Faërie we encounter them only at some chance crossing of the ways.

The definition of a fairy-story—what it is, or what it should be—does not, then, depend on any definition or historical account of elf or fairy, but upon the nature of Faërie: thePerilous Realm itself, and the air that blows in that country. I will not attempt to define that, nor to describe it directly. It cannot be done. Faërie cannot be caught in a net of words; for it is one of its qualities to be indescribable, though not imperceptible. It has many ingredients, but analysis will not necessarily discover the secret of the whole. Yet I hope that what I have later to say about the other questions will give some glimpses of my own imperfect vision of it. For the moment I will say only this: a "fairy-story" is one which touches on or uses Faerie, whatever its own main purpose may be: satire, adventure, morality, fantasy. Faerie itself may perhaps most nearly be translated by Magic—but it is magic of a peculiar mood and power, at the furthest pole from the vulgar devices of the laborious, scientific, magician. There is one proviso: if there is any satire present in the tale, one thing must not be made fun of, the magic itself. That must in that story be taken seriously, neither laughed at nor explained away. Of this seriousness the medieval Sir Gawain and the Green Knight is an admirable example.

But even if we apply only these vague and ill-defined limits, it becomes plain that many, even the learned in such matters, have used the term "fairy-tale" very carelessly. A glance at those books of recent times that claim to be collections of "fairy-stories" is enough to

show that tales about fairies, about the fair family in any of its houses, or even about dwarfs and goblins, are only a small part of their content. That, as we have seen, was to be expected. But these books also contain many tales that do not use, do not even touch upon, Faerie at all; that have in fact no business to be included.

I will give one or two examples of the expurgations I would perform. This will assist the negative side of definition. It will also be found to lead on to the second question: what are the origins of fairy-stories?

The number of collections of fairy-stories is now very great. In English none probably rival either the popularity, or the inclusiveness, or the general merits of the twelve books of twelve colours which we owe to Andrew Lang and to his wife. The first of these appeared more than seventy years ago (1889), and is still in print. Most of its contents pass the test, more or less clearly. I will not analyse them, though an analysis might be interesting, but I note in passing that of the stories in this Blue Fairy Book none are primarily about "fairies," few refer to them. Most of the tales are taken from French sources: a just choice in someways at that time, as perhaps it would be still (though not to my taste, now or in childhood). At any rate, so powerful has been the influence of Charles Perrault, since his Contes de ma Mère l'Oye were first Englished in the eighteenth century, and of such other excerpts from the vast storehouse of the Cabinet des Fées as have become well known, that still, I suppose, if you asked a man to name at random a typical "fairy-story," he would be most likely to name one of these French things: such as Puss-in-Boots, Cinderella, or Little Red Riding Hood. With some people Grimm's Fairy Tales might come first to mind.

But what is to be said of the appearance in the Blue Fairy Book of A Voyage to Lilliput? I will say this: it is not a fairy-story, neither as its author made it, nor as it here appears "condensed" by Miss May Kendall. It has no business in this place. I fear that it was included merely because Lilliputians are small, even diminutive—the only way in which they are a tall remarkable. But smallness is in Faerie, as in our world, only an accident. Pygmies are no nearer to fairies than are Patagonians. I do not rule this story out because of its satirical intent: there is satire, sustained or intermittent, in undoubted fairy-stories, and satire may often have been intended in traditional tales where we do not now perceive it. I rule it out, because the vehicle of the satire, brilliant invention though it may be, belongs to the class of travellers' tales. Such tales report many marvels, but they are marvels to be seen in this mortal world in some region of our own time and space; distance alone conceals them. The tales of Gulliver have no more right of entry than the yarns of Baron Munchausen; or than, say, The First Men in the Moon or The Time-Machine. Indeed, for the Eloi and the Morlocks there would be a better claim than for the Lilliputians. Lilliputians are merely men peered down at, sardonically, from just above the house-tops. Eloi and Morlocks live far away in an abyss of time so deep as to work an enchantment upon them; and if they are descended from ourselves, it may be remembered that an ancient English thinker once derived the ylfe, the very elves, through Cain from Adam. This enchantment of distance, especially of distant time, is weakened only by the preposterous and incredible Time Machine itself. But we see in this example one of the main reasons why the borders of fairy-story are inevitably dubious. The magic of Faerie is not an end in itself, its virtue is in its operations: among these are the satisfaction of certain primordial human desires. One of these desires is to survey the depths of space and time. Another is (as will be seen) to hold communion with other living things. A story may thus deal with the satisfaction of these desires, with or without the operation of either machine or magic, and in proportion as it succeeds it will approach the quality and have the flavour of fairy-story.

Next, after travellers' tales, I would also exclude, or rule out of order, any story that uses the machinery of Dream, the dreaming of actual human sleep, to explain the apparent occurrence of its marvels. At the least, even if the reported dream was in other respects in itself a fairy-story, I would condemn the whole as gravely defective: like a good picture in a disfiguring frame. It is true that Dream is not unconnected with Faërie. In dreams strange powers of the mind may be unlocked. In some of them a man may for a space wield the power of Faërie, that power which, even as it conceives the story, causes it to take living form and colour before the eyes. A real dream may indeed sometimes be a fairy-story of almost elvish ease and skill—while it is being dreamed. But if a waking writer tells you that his tale is only a thing imagined in his sleep, he cheats deliberately the primal desire at the heart of Faerie: the realization, independent of the conceiving mind, of imagined wonder. It is often reported of fairies (truly or lyingly, I do not know) that they are workers of illusion, that they are cheaters of men by "fantasy"; but that is quite another matter. That is their affair. Such trickeries happen, at any rate, inside tales in which the fairies are not themselves illusions; behind the fantasy real wills and powers exist, independent of the minds and purposes of men.

It is at any rate essential to a genuine fairy-story, as distinct from the employment of this form for lesser or debased purposes, that it should be presented as "true." The meaning of "true" in this connexion I will consider in a moment. But since the fairy-story deals with "marvels," it cannot tolerate any frame or machinery suggesting that the whole story in which they occur is a figment or illusion. The tale itself may, of course, be so good that one can ignore the frame. Or it may be successful and amusing as a dream-story. So are Lewis Carroll's Alice stories, with their dream-frame and dream-transitions. For this (and other reasons) they are not fairy-stories.^A

There is another type of marvellous tale that I would exclude from the title "fairy-story," again certainly not because I do not like it: namely pure "Beast-fable." I will choose an example from Lang's Fairy Books: The Monkey's Heart, a Swahili tale which is given in the Lilac Fairy Book. In this story a wicked shark tricked a monkey into riding on his back, and carried him half-way to his own land, before he revealed the fact that the sultan

of that country was sick and needed a monkey's heart to cure his disease. But the monkey outwitted the shark, and induced him to return by convincing him that the heart had been left behind at home, hanging in a bag on a tree.

The beast-fable has, of course, a connexion with fairy-stories. Beasts and birds and other creatures often talk like men in real fairy-stories. In some part (often small) this marvel derives from one of the primal "desires" that lie near the heart of Faerie: the desire of men to hold communion with other living things. But the speech of beasts in a beast-fable, as developed into a separate branch, has little reference to that desire, and often wholly forgets it. The magical understanding by men of the proper languages of birds and beasts and trees, that is much nearer to the true purposes of Faerie. But in stories in which no human being is concerned; or in which the animals are the heroes and heroines, and men and women, if they appear, are mere adjuncts; and above all those in which the animal form is only a mask upon a human face, a device of the satirist or the preacher, in these we have beast-fable and not fairy-story: whether it be Reynard the Fox, or The Nun's Priest's Tale, or Brer Rabbit, or merely The Three Little Pigs. The stories of Beatrix Potter lie near the borders of Faerie, but outside it, I think, for the most part. Their nearness is due largely to their strong moral element: by which I mean their inherent morality, not any allegorical signification. But Peter Rabbit, though it contains a prohibition, and though there are prohibitions in fairyland (as, probably, there are throughout the universe on every plane and in every dimension), remains a beast-fable.

Now The Monkeys Heart is also plainly only a beast-fable. I suspect that its inclusion in a "Fairy Book" is due not primarily to its entertaining quality, but precisely to the monkey's heart supposed to have been left behind in a bag. That was significant to Lang, the student of folk-lore, even though this curious idea is here used only as a joke; for, in this tale, the monkey's heart was in fact quite normal and in his breast. None the less this detail is plainly only a secondary use of an ancient and very widespread folk-lore notion, which does occur in fairy-stories; the notion that the life or strength of a man or creature may reside in some other place or thing; or in some part of the body (especially the heart) that can be detached and hidden in a bag, or under a stone, or in an egg. At one end of recorded folk-lore history this idea was used by George MacDonald in his fairy-story The Giant's Heart, which derives this central motive (as well as many other details) from well-known traditional tales. At the other end, indeed in what is probably one of the oldest stories in writing, it occurs in The Tale of the Two Brothers on the Egyptian D'Orsigny papyrus. There the younger brother says to the elder:

I shall enchant my heart, and I shall place it upon the top of the flower of the cedar. Now the cedar will be cut down and my heart will fall to the ground, and thou shalt come to seek it, even though thou pass seven years in seeking it; but when thou has found it, put it into a vase of cold water, and in very truth I shall live.

But that point of interest and such comparisons as these bring us to the brink of the second question: What are the origins of "fairy-stories"? That must, of course, mean: the origin or origins of the fairy elements. To ask what is the origin of stories (however qualified) is to ask what is the origin of language and of the mind.

Origins

Actually the question: What is the origin of the fairy element? lands us ultimately in the same fundamental inquiry; but there are many elements in fairy-stories (such as this detachable heart, or swan-robes, magic rings, arbitrary prohibitions, wicked stepmothers, and even fairies themselves) that can be studied without tackling this main question. Such studies are, however, scientific (at least in intent); they are the pursuit of folklorists or anthropologists: that is of people using the stories not as they were meant to be used, but as a quarry from which to dig evidence, or information, about matters in which they are interested. A perfectly legitimate procedure in itself—but ignorance or forgetfulness of the nature of a story (as a thing told in its entirety) has often led such inquirers into strange judgments. To investigators of this sort recurring similarities (such as this matter of the heart) seem specially important. So much so that students of folk-lore are apt to get off their own proper track, or to express themselves in a misleading "shorthand": misleading in particular, if it gets out of their monographs into books about literature. They are inclined to say that any two stories that are built round the same folk-lore motive, or are made up of a generally similar combination of such motives, are "the same stories." We read that Beowulf "is only a version of Dat Erdmänneken"; that "The Black Bull of Norroway is Beauty and the Beast," or "is the same story as Eros and Psyche"; that the Norse Mastermaid (or the Gaelic Battle of the Birds and its many congeners and variants) is "the same story as the Greek tale of Jason and Medea."

Statements of that kind may express (in undue abbreviation) some element of truth; but they are not true in a fairy-story sense, they are not true in art or literature. It is precisely the colouring, the atmosphere, the unclassifiable individual details of a story, and above all the general purport that informs with life the undissected bones of the plot, that really count. Shakespeare's King Lear is not the same as Layamon's story in his Brut. Or to take the extreme case of Red Riding Hood: it is of merely secondary interest that the retold versions of this story, in which the little girl is saved by wood-cutters, is directly derived from Perrault's story in which she was eaten by the wolf. The really important thing is that the later version has a happy ending (more or less, and if we do not mourn the grandmother overmuch), and that Perrault's version had not. And that is a very profound difference, to which I shall return. Of course, I do not deny, for I feel strongly, the fascination of the desire to unravel the intricately knotted and ramified history of the branches on the Tree of Tales. It is closely connected with the philologists' study of the tangled skein of Language, of which I know some small pieces. But even with regard to

language it seems to me that the essential quality and aptitudes of a given language in a living monument is both more important to seize and far more difficult to make explicit than its linear history. So with regard to fairy stories, I feel that it is more interesting, and also in its way more difficult, to consider what they are, what they have become for us, and what values the long alchemic processes of time have produced in them. In Dasent's words I would say: "We must be satisfied with the soup that is set before us, and not desire to see the bones of the ox out of which it has been boiled. "Though, oddly enough, Dasent by "the soup" meant a mishmash of bogus pre-history founded on the early surmises of Comparative Philology; and by "desire to see the bones" he meant a demand to see the workings and the proofs that led to these theories. By "the soup" I mean the story as it is served up by its author or teller, and by "the bones" its sources or material—even when (by rare luck) those can be with certainty discovered. But I do not, of course, forbid criticism of the soup as soup.

I shall therefore pass lightly over the question of origins. I am too unlearned to deal with it in any other way; but it is the least important of the three questions for my purpose, and a few remarks will suffice. It is plain enough that fairy-stories (in wider or in narrower sense) are very ancient indeed. Related things appear in very early records; and they are found universally, wherever there is language. We are therefore obviously confronted with a variant of the problem that the archaeologist encounters, or the comparative philologist: with the debate between independent evolution (or rather invention) of the similar; inheritance from a common ancestry; and diffusion at various times from one or more centres. Most debates depend on an attempt (by one or both sides) at over-simplification; and I do not suppose that this debate is an exception. The history of fairy-stories is probably more complex than the physical history of the human race, and as complex as the history of human language. All three things: independent invention, inheritance, and diffusion, have evidently played their part in producing the intricate web of Story. It is now beyond all skill but that of the elves to unravel it. Of these three invention is the most important and fundamental, and so (not surprisingly) also the most mysterious. To an inventor, that is to a storymaker, the other two must in the end lead back. Diffusion (borrowing in space) whether of an artefact or a story, only refers the problem of origin elsewhere. At the centre of the supposed diffusion there is a place where once an inventor lived. Similarly with inheritance (borrowing in time): in this way we arrive at last only at an ancestral inventor. While if we believe that sometimes there occurred the independent striking out of similar ideas and themes or devices, we simply multiply the ancestral inventor but do not in that way the more clearly understand his gift.

Philology has been dethroned from the high place it once had in this court of inquiry. Max Müller's view of mythology as a "disease of language" can be abandoned without regret. Mythology is not a disease at all, though it may like all human things become

diseased. You might as well say that thinking is a disease of the mind. It would be more near the truth to say that languages, especially modern European languages, are a disease of mythology. But Language cannot, all the same, be dismissed. The incarnate mind, the tongue, and the tale are in our world coeval. The human mind, endowed with the powers of generalization and abstraction, sees not only green-grass, discriminating it from other things (and finding it fair to look upon), but sees that it is green as well as being grass. But how powerful, how stimulating to the very faculty that produced it, was the invention of the adjective: no spell or incantation in Faerie is more potent. And that is not surprising: such incantations might indeed be said to be only another view of adjectives, a part of speech in a mythical grammar. The mind that thought of light, heavy, grey, yellow, still, swift, also conceived of magic that would make heavy things light and able to fly, turn grey lead into yellow gold, and the still rock into a swift water. If it could do the one, it could do the other; it inevitably did both. When we can take green from grass, blue from heaven, and red from blood, we have already an enchanter's power—upon one plane; and the desire to wield that power in the world external to our minds awakes. It does not follow that we shall use that power well upon any plane. We may put a deadly green upon a man's face and produce a horror; we may make the rare and terrible blue moon to shine; or we may cause woods to spring with silver leaves and rams to wear fleeces of gold, and put hot fire into the belly of the cold worm. But in such "fantasy," as it is called, new form is made; Faerie begins; Man becomes a sub-creator.

An essential power of Faerie is thus the power of making immediately effective by the will the visions of "fantasy." Not all are beautiful or even wholesome, not at any rate the fantasies of fallen Man. And he has stained the elves who have this power (in verity or fable) with his own stain. This aspect of "mythology"—sub-creation, rather than either representation or symbolic interpretation of the beauties and terrors of the world—is, I think, too little considered. Is that because it is seen rather in Faerie than upon Olympus? Because it is thought to belong to the "lower mythology" rather than to the "higher"? There has been much debate concerning the relations of these things, of folk-tale and myth; but, even if there had been no debate, the question would require some notice in any consideration of origins, however brief.

At one time it was a dominant view that all such matter was derived from "nature-myths." The Olympians were personifications of the sun, of dawn, of night, and so on, and all the stories told about them were originally myths (allegories would have been a better word) of the greater elemental changes and processes of nature. Epic, heroic legend, saga, then localized these stories in real places and humanized them by attributing them to ancestral heroes, mightier than men and yet already men. And finally these legends, dwindling down, became folk-tales, Märchen, fairy-stories—nursery-tales.

That would seem to be the truth almost upside down. The nearer the so-called "nature myth," or allegory, of the large processes of nature is to its supposed archetype, the less

interesting it is, and indeed the less is it of a myth capable of throwing any illumination whatever on the world. Let us assume for the moment, as this theory assumes, that nothing actually exists corresponding to the "gods" of mythology: no personalities, only astronomical or meteorological objects. Then these natural objects can only be arrayed with a personal significance and glory by a gift, the gift of a person, of a man. Personality can only be derived from a person. The gods may derive their colour and beauty from the high splendours of nature, but it was Man who obtained these for them, abstracted them from sun and moon and cloud; their personality they get direct from him; the shadow or flicker of divinity that is upon them they receive through him from the invisible world, the Supernatural. There is no fundamental distinction between the higher and lower mythologies. Their peoples live, if they live at all, by the same life, just as in the mortal world do kings and peasants.

Let us take what looks like a clear case of Olympian nature-myth: the Norse god Thórr. His name is Thunder, of which Thórr is the Norse form; and it is not difficult to interpret his hammer, Miöllnir, as lightning. Yet Thórr has (as far as our late records go) a very marked character, or personality, which cannot be found in thunder or in lightning, even though some details can, as it were, be related to these natural phenomena: for instance, his red beard, his loud voice and violent temper, his blundering and smashing strength. None the less it is asking a question without much meaning, if we inquire: Which came first, nature allegories about personalized thunder in the mountains, splitting rocks and trees; or stories about an irascible, not very clever, red beard farmer, of a strength beyond common measure, a person (in all but mere stature) very like the Northern farmers, the boendr by whom Thórr was chiefly beloved? To a picture of such a man Thórr may be held to have "dwindled," or from it the god may be held to have been enlarged. But I doubt whether either view is right—not by itself, not if you insist that one of these things must precede the other. It is more reasonable to suppose that the farmer popped up in the very moment when Thunder got a voice and face; that there was a distant growl of thunder in the hills every time a storyteller heard a farmer in a rage.

Thórr must, of course, be reckoned a member of the higher aristocracy of mythology: one of the rulers of the world. Yet the tale that is told of him in Thrymskvitha (in the Elder Edda) is certainly just a fairy-story. It is old, as far as Norse poems go, but that is not far back (say A.D. 900 or a little earlier, in this case). But there is no real reason for supposing that this tale is "unprimitive," at any rate in quality: that is, because it is of folk-tale kind and not very dignified. If we could go backwards in time, the fairy-story might be found to change in details, or to give way to other tales. But there would always be a "fairy-tale" as long as there was any Thórr. When the fairy-tale ceased, there would be just thunder, which no human ear had yet heard.

Something really "higher" is occasionally glimpsed in mythology: Divinity, the right to power (as distinct from its possession), the due worship; in fact "religion." Andrew Lang

said, and is by some still commended for saying, that mythology and religion (in the strict sense of that word) are two distinct things that have become inextricably entangled, though mythology is in itself almost devoid of religious significance.

Yet these things have in fact become entangled—or maybe they were sundered long ago and have since groped slowly, through a labyrinth of error, through confusion, back towards refusion. Even fairy-stories as a whole have three faces: the Mystical towards the Supernatural; the Magical towards Nature; and the Mirror of scorn and pity towards Man. The essential face of Faerie is the middle one, the Magical. But the degree in which the others appear (if at all) is variable, and may be decided by the individual story-teller. The Magical, the fairy-story, may be used as a Mirour de l'Omme; and it may (but not so easily) be made a vehicle of Mystery. This at least is what George Mac-Donald attempted, achieving stories of power and beauty when he succeeded, as in The Golden Key (which he called a fairy-tale); and even when he partly failed, as in Lilith (which he called a romance).

For a moment let us return to the "Soup" that I mentioned above. Speaking of the history of stories and especially of fairy-stories we may say that the Pot of Soup, the Cauldron of Story, has always been boiling, and to it have continually been added new bits, dainty and undainty. For this reason, to take a casual example, the fact that a story resembling the one known as The Goosegirl (Die Gänsemagd in Grimm) is told in the thirteenth century of Bertha Broadfoot, mother of Charlemagne, really proves nothing either way: neither that the story was (in the thirteenth century) descending from Olympus or Asgard by way of an already legendary king of old, on its way to become a Hausmärchen; nor that it was on its way up. The story is found to be widespread, unattached to the mother of Charlemagne or to any historical character. From this fact by itself we certainly cannot deduce that it is not true of Charlemagne's mother, though that is the kind of deduction that is most frequently made from that kind of evidence. The opinion that the story is not true of Bertha Broadfoot must be founded on something else: on features in the story which the critic's philosophy does not allow to be possible in "real life," so that he would actually disbelieve the tale, even if it were found nowhere else; or on the existence of good historical evidence that Bertha's actual life was quite different, so that he would disbelieve the tale, even if his philosophy allowed that it was perfectly possible in "real life." No one, I fancy, would discredit a story that the Archbishop of Canterbury slipped on a banana skin merely because he found that a similar comic mishap had been reported of many people, and especially of elderly gentlemen of dignity. He might disbelieve the story, if he discovered that in it an angel (or even a fairy) had warned the Archbishop that he would slip if he wore gaiters on a Friday. He might also disbelieve the story, if it was stated to have occurred in the period between, say, 1940 and 1945. So much for that. It is an obvious point, and it has been made before; but I venture to make it again (although it is a little beside my present purpose), for it is constantly neglected by those who concern themselves with the origins of tales.

But what of the banana skin? Our business with it really only begins when it has been rejected by historians. It is more useful when it has been thrown away. The historian would be likely to say that the banana-skin story "became attached to the Archbishop," as he does say on fair evidence that "the Goosegirl Märchen became attached to Bertha." That way of putting it is harmless enough, in what is commonly known as "history." But is it really a good description of what is going on and has gone on in the history of story-making? I do not think so. I think it would be nearer the truth to say that the Archbishop became attached to the banana skin, or that Bertha was turned into the Goosegirl. Better still: I would say tha tCharlemagne's mother and the Archbishop were put into the Pot, in fact got into the Soup. They were just new bits added to the stock. A considerable honour, for in that soup were many things older, more potent, more beautiful, comic, or terrible than they were in themselves (considered simply as figures of history).

It seems fairly plain that Arthur, once historical (but perhaps as such not of great importance), was also put into the Pot. There he was boiled for a long time, together with many other older figures and devices, of mythology and Faerie, and even some other stray bones of history (such as Alfred's defence against the Danes), until he emerged as a King of Faerie. The situation is similar in the great Northern "Arthurian" court of the Shield-Kings of Denmark, the Scyldingas of ancient English tradition. King Hrothgar and his family have many manifest marks of true history, far more than Arthur; yet even in the older (English) accounts of them they are associated with many figures and events of fairy-story: they have been in the Pot. But I refer now to the remnants of the oldest recorded English tales of Faerie (or its borders), in spite of the fact that they are little known in England, not to discuss the turning of the bear-boy into the knight Beowulf, or to explain the intrusion of the ogre Grendel into the royal hall of Hrothgar. I wish to point to something else that these traditions contain: a singularly suggestive example of the relation of the "fairy-tale element" to gods and kings and nameless men, illustrating (I believe) the view that this element does not rise or fall, but is there, in the Cauldron of Story, waiting for the great figures of Myth and History, and for the yet nameless He or She, waiting for the moment when they are cast into the simmering stew, one by one or all together, without consideration of rank or precedence.

The great enemy of King Hrothgar was Froda, King of the Heathobards. Yet of Hrothgar's daughter Freawaru we hear echoes of a strange tale—not a usual one in Northern heroic legend: the son of the enemy of her house, Ingeld son of Froda, fell in love with her and wedded her, disastrously. But that is extremely interesting and significant. In the background of the ancient feud looms the figure of that god whom the Norsemen called Frey (the Lord) or Yngvi-frey, and the Angles called Ing: a god of the ancient Northern mythology (and religion) of Fertility and Corn. The enmity of the royal

houses was connected with the sacred site of a cult of that religion. Ingeld and his father bear names belonging to it. Freawaru herself is named "Protection of the Lord (of Frey)." Yet one of the chief things told later (in Old Icelandic) about Frey is the story in which he falls in love from afar with the daughter of the enemies of the gods, Gerdr, daughter of the giant Gymir, and weds her. Does this prove that Ingeld and Freawaru, or their love, are "merely mythical"? I think not. History often resembles "Myth," because they are both ultimately of the same stuff. If indeed Ingeld and Freawaru never lived, or at least never loved, then it is ultimately from nameless man and woman that they get their tale, or rather into whose tale they have entered. They have been put into the Cauldron, where so many potent things lie simmering agelong on the fire, among them Love-at-first-sight. So too of the god. If no young man had ever fallen in love by chance meeting with a maiden, and found old enmities to stand between him and his love, then the god Frey would never have seen Gerdr the giant's daughter from the high-seat of Odin. But if we speak of a Cauldron, we must not wholly forget the Cooks. There are many things in the Cauldron, but the Cooks do not dip in the ladle quite blindly. Their selection is important. The gods are after all gods, and it is a matter of some moment what stories are told of them. So we must freely admit that a tale of love is more likely to be told of a prince in history, indeed is more likely actually to happen in an historical family whose traditions are those of Golden Frey and the Vanir, rather than those of Odin the Goth, the Necromancer, glutter of the crows, Lord of the Slain. Small wonder that spell means both a story told, and a formula of power over living men.

But when we have done all that research—collection and comparison of the tales of many lands—can do; when we have explained many of the elements commonly found embedded in fairy-stories (such as step-mothers, enchanted bears and bulls, cannibal witches, taboos on names, and the like) as relics of ancient customs once practised in daily life, or of beliefs once held as beliefs and not as "fancies"— there remains still a point too often forgotten: that is the effect produced now by these old things in the stories as they are.

For one thing they are now old, and antiquity has an appeal in itself. The beauty and horror of The Juniper Tree (Von dem Machandelboom), with its exquisite and tragic beginning, the abominable cannibal stew, the gruesome bones, the gay and vengeful bird-spirit coming out of a mist that rose from the tree, has remained with me since childhood; and yet always the chief flavour of that tale lingering in the memory was not beauty or horror, but distance and a great abyss of time, not measurable even by twe tusend Johr. Without the stew and the bones—which children are now too often spared in mollified versions of Grimm —that vision would largely have been lost. I do not think I was harmed by the horror in the fairytale setting, out of whatever dark beliefs and practices of the past it may have come. Such stories have now a mythical or total (unanalysable) effect, an effect quite independent of the findings of Comparative Folklore, and one which it

cannot spoil or explain; they open a door on Other Time, and if we pass through, though only for a moment, we stand outside our own time, outside Time itself, maybe.

If we pause, not merely to note that such old elements have been preserved, but to think how they have been preserved, we must conclude, I think, that it has happened, often if not always, precisely because of this literary effect. It cannot have been we, or even the brothers Grimm, that first felt it. Fairy-stories are by no means rocky matrices out of which the fossils cannot be prised except by an expert geologist. The ancient elements can be knocked out, or forgotten and dropped out, or replaced by other ingredients with the greatest ease: as any comparison of a story with closely related variants will show. The things that are there must often have been retained (or inserted) because the oral narrators, instinctively or consciously, felt their literary "significance." Even where a prohibition in a fairy-story is guessed to be derived from some taboo once practised long ago, it has probably been preserved in the later stages of the tale's history because of the great mythical significance of prohibition. A sense of that significance may indeed have lain behind some of the taboos themselves. Thou shalt not—or else thou shall depart beggared into endless regret. The gentlest "nursery-tales" know it. Even Peter Rabbit was forbidden a garden, lost his blue coat, and took sick. The Locked Door stands as an eternal Temptation.

Children

I will now turn to children, and so come to the last and most important of the three questions: what, if any, are the values and functions of fairy-stories now? It is usually assumed that children are the natural or the specially appropriate audience for fairy-stories. In describing a fairy-story which they think adults might possibly read for their own entertainment, reviewers frequently indulge in such waggeries as: "this book is for children from the ages of six to sixty." But I have never yet seen the puff of a new motor-model that began thus: "this toy will amuse infants from seventeen to seventy"; though that to my mind would be much more appropriate. Is there any essential connexion between children and fairy-stories? Is there any call for comment, if an adult reads them for himself? Reads them as tales, that is, not studies them as curios. Adults are allowed to collect and study anything, even old theatre programmes or paper bags.

Among those who still have enough wisdom not to think fairy-stories pernicious, the common opinion seems to be that there is a natural connexion between the minds of children and fairy-stories, of the same order as the connexion between children's bodies and milk. I think this is an error; at best an error of false sentiment, and one that is therefore most often made by those who, for whatever private reason (such as childlessness), tend to think of children as a special kind of creature, almost a different race, rather than as normal, if immature, members of a particular family, and of the human family at large.

Actually, the association of children and fairy-stories is an accident of our domestic history. Fairy-stories have in the modern lettered world been relegated to the "nursery," as shabby or old-fashioned furniture is relegated to the play-room, primarily because the adults do not want it, and do not mind if it is misused. It is not the choice of the children which decides this. Children as a class—except in a common lack of experience they are not one—neither like fairy-stories more, nor understand them better than adults do; and no more than they like many other things. They are young and growing, and normally have keen appetites, so the fairy-stories as a rule go down well enough. But in fact only some children, and some adults, have any special taste for them; and when they have it, it is not exclusive, nor even necessarily dominant. It is a taste, too, that would not appear, I think, very early in childhood without artificial stimulus; it is certainly one that does not decrease but increases with age, if it is innate.

It is true that in recent times fairy-stories have usually been written or "adapted" for children. But so may music be, or verse, or novels, or history, or scientific manuals. It is a dangerous process, even when it is necessary. It is indeed only saved from disaster by the fact that the arts and sciences are not as a whole relegated to the nursery; the nursery and schoolroom are merely given such tastes and glimpses of the adult thing as seem fit for them in adult opinion (often much mistaken). Any one of these things would, if left altogether in the nursery, become gravely impaired. So would a beautiful table, a good picture, or a useful machine (such as a microscope), be defaced or broken, if it were left long unregarded in a schoolroom. Fairy-stories banished in this way, cut off from a full adult art, would in the end be ruined; indeed in so far as they have been so banished, they have been ruined.

The value of fairy-stories is thus not, in my opinion, to be found by considering children in particular. Collections of fairy-stories are, in fact, by nature attics and lumber-rooms, only by temporary and local custom play-rooms. Their contents are disordered, and often battered, a jumble of different dates, purposes, and tastes; but among them may occasionally be found a thing of permanent virtue: an old work of art, not too much damaged, that only stupidity would ever have stuffed away.

Andrew Lang's Fairy Books are not, perhaps, lumber-rooms. They are more like stalls in a rummage-sale. Someone with a duster and a fair eye for things that retain some value has been round the attics and box-rooms. His collections are largely a by-product of his adult study of mythology and folk-lore; but they were made into and presented as books for children. Some of the reasons that Lang gave are worth considering.

The introduction to the first of the series speaks of "children to whom and for whom they are told." "They represent," he says, "the young age of man true to his early loves, and have his unblunted edge of belief, a fresh appetite for marvels." "Is it true?" he says, "is the great question children ask."

I suspect that belief and appetite for marvels are here regarded as identical or as closely related. They are radically different, though the appetite for marvels is not at once or at first differentiated by a growing human mind from its general appetite. It seems fairly clear that Lang was using belief in its ordinary sense: belief that a thing exists or can happen in the real (primary) world. If so, then I fear that Lang's words, stripped of sentiment, can only imply that the teller of marvellous tales to children must, or may, or at any rate does trade on their credulity, on the lack of experience which makes it less easy for children to distinguish fact from fiction in particular cases, though the distinction in itself is fundamental to the sane human mind, and to fairy-stories.

Children are capable, of course, of literary belief, when the story-maker's art is good enough to produce it. That state of mind has been called "willing suspension of disbelief." But this does not seem to me a good description of what happens. What really happens is that the story-maker proves a successful "sub-creator." He makes a Secondary World which your mind can enter. Inside it, what he relates is "true": it accords with the laws of that world. You therefore believe it, while you are, as it were, inside. The moment disbelief arises, the spell is broken; the magic, or rather art, has failed. You are then out in the Primary World again, looking at the little abortive Secondary World from outside. If you are obliged, by kindliness or circumstance, to stay, then disbelief must be suspended (or stifled), otherwise listening and looking would become intolerable. But this suspension of disbelief is a substitute for the genuine thing, a subterfuge we use when condescending to games or make-believe, or when trying (more or less willingly) to find what virtue we can in the work of an art that has for us failed.

A real enthusiast for cricket is in the enchanted state: Secondary Belief. I, when I watch a match, am on the lower level. I can achieve (more or less) willing suspension of disbelief, when I am held there and supported by some other motive that will keep away boredom: for instance, a wild, heraldic, preference for dark blue rather than light. This suspension of disbelief may thus be a somewhat tired, shabby, or sentimental state of mind, and so lean to the "adult." I fancy it is often the state of adults in the presence of a fairy-story. They are held there and supported by sentiment (memories of childhood, or notions of what childhood ought to be like); they think they ought to like the tale. But if they really liked it, for itself, they would not have to suspend disbelief: they would believe—in this sense.

Now if Lang had meant anything like this there might have been some truth in his words. It may be argued that it is easier to work the spell with children. Perhaps it is, though I am not sure of this. The appearance that it is so is often, I think, an adult illusion produced by children's humility, their lack of critical experience and vocabulary, and their voracity (proper to their rapid growth). They like or try to like what is given to them: if they do not like it, they cannot well express their dislike or give reasons for it (and so may conceal it); and they like a great mass of different things indiscriminately, without troubling to analyse the planes of their belief. In any case I doubt if this potion—the

enchantment of the effective fairy-story— is really one of the kind that becomes "blunted" by use, less potent after repeated draughts.

"Is it true?' is the great question children ask," Lang said. They do ask that question, I know; and it is not one to be rashly or idly answered. But that question is hardly evidence of "unblunted belief," or even of the desire for it. Most often it proceeds from the child's desire to know which kind of literature he is faced with. Children's knowledge of the world is often so small that they cannot judge, off-hand and without help, between the fantastic, the strange (that is rare or remote facts), the nonsensical, and the merely "grown-up" (that is ordinary things of their parents' world, much of which still remains unexplored). But they recognize the different classes, and may like all of them at times. Of course the borders between them are often fluctuating or confused; but that is not only true for children. We all know the differences in kind, but we are not always sure how to place anything that we hear. A child may well believe a report that there are ogres in the next county; many grown up persons find it easy to believe of another country; and as for another planet, very few adults seem able to imagine it as peopled, if at all, by anything but monsters of iniquity.

Now I was one of the children whom Andrew Lang was addressing—I was born at about the same time as the Green Fairy Book—the children for whom he seemed to think that fairy-stories were the equivalent of the adult novel, and of whom he said: "Their taste remains like the taste of their naked ancestors thousands of years ago; and they seem to like fairy-tales better than history, poetry, geography, or arithmetic." But do we really know much about these "naked ancestors," except that they were certainly not naked? Our fairy-stories, however old certain elements in them may be, are certainly not the same as theirs. Yet if it is assumed that we have fairy-stories because they did, then probably we have history, geography, poetry, and arithmetic because they liked these things too, as far as they could get them, and in so far as they had yet separated the many branches of their general interest in everything.

And as for children of the present day, Lang's description does not fit my own memories, or my experience of children. Lang may have been mistaken about the children he knew, but if he was not, then at any rate children differ considerably, even within the narrow borders of Britain, and such generalizations which treat them as a class (disregarding their individual talents, and the influences of the countryside they live in, and their upbringing) are delusory. I had no special "wish to believe." I wanted to know. Belief depended on the way in which stories were presented to me, by older people, or by the authors, or on the inherent tone and quality of the tale. But at no time can I remember that the enjoyment of a story was dependent on belief that such things could happen, or had happened, in "real life." Fairy-stories were plainly not primarily concerned with possibility, but with desirability. If they awakened desire, satisfying it while often whetting it unbearably, they succeeded. It is not necessary to be more explicit here, for I hope to say something later

about this desire, a complex of many ingredients, some universal, some particular to modern men (including modern children), or even to certain kinds of men. I had no desire to have either dreams or adventures like Alice, and the amount of them merely amused me. I had very little desire to look for buried treasure or fight pirates, and Treasure Island left me cool. Red Indians were better: there were bows and arrows (I had and have a wholly unsatisfied desire to shoot well with a bow), and strange languages, and glimpses of an archaic mode of life, and, above all, forests in such stories. But the land of Merlin and Arthur was better than these, and best of all the nameless North of Sigurd of the Völsungs, and the prince of all dragons. Such lands were preeminently desirable. I never imagined that the dragon was of the same order as the horse. And that was not solely because I saw horses daily, but never even the footprint of a worm. D The dragon had the trademark of Faerie written plain upon him. In whatever world he had his being it was an Other-world. Fantasy, the making or glimpsing of Other-worlds, was the heart of the desire of Faërie. I desired dragons with a profound desire. Of course, I in my timid body did not wish to have them in the neighbourhood, intruding into my relatively safe world, in which it was, for instance, possible to read stories in peace of mind, free from fear. But the world that contained even the imagination of Fáfnir was richer and more beautiful, at whatever cost of peril. The dweller in the quiet and fertile plains may hear of the tormented hills and the unharvested sea and long for them in his heart. For the heart is hard though the body be soft.

All the same, important as I now perceive the fairy-story element in early reading to have been, speaking for myself as a child, I can only say that a liking for fairy-stories was not a dominant characteristic of early taste. A real taste for them awoke after "nursery" days, and after the years, few but long-seeming, between learning to read and going to school. In that (I nearly wrote "happy" or "golden," it was really a sad and troublous) time I liked many other things as well, or better: such as history, astronomy, botany, grammar, and etymology. I agreed with Lang's generalized "children" not at all in principle, and only in some points by accident: I was, for instance, insensitive to poetry, and skipped it if it came in tales. Poetry I discovered much later in Latin and Greek, and especially through being made to try and translate English verse into classical verse. A real taste for fairy-stories was wakened by philology on the threshold of manhood, and quickened to full life by war.

I have said, perhaps, more than enough on this point. At least it will be plain that in my opinion fairy-stories should not be specially associated with children. They are associated with them: naturally, because children are human and fairy-stories are a natural human taste (though not necessarily a universal one); accidentally, because fairy-stories are a large part of the literary lumber that in latter-day Europe has been stuffed away in attics; unnaturally, because of erroneous sentiment about children, a sentiment that seems to increase with the decline in children.

It is true that the age of childhood-sentiment has produced some delightful books (especially charming, however, to adults) of the fairy kind or near to it; but it has also produced a dreadful undergrowth of stories written or adapted to what was or is conceived to be the measure of children's minds and needs. The old stories are mollified or bowdlerized, instead of being reserved; the imitations are often merely silly, Pigwiggenry without even the intrigue; or patronizing; or (deadliest of all) covertly sniggering, with an eye on the other grown-ups present. I will not accuse Andrew Lang of sniggering, but certainly he smiled to himself, and certainly too often he had an eye on the faces of other clever people over the heads of his child-audience —to the very grave detriment of the Chronicles of Pantouflia.

Dasent replied with vigour and justice to the prudish critics of his translations from Norse popular tales. Yet he committed the astonishing folly of particularly forbidding children to read the last two in his collection. That a man could study fairy-stories and not learn better than that seems almost incredible. But neither criticism, rejoinder, nor prohibition would have been necessary if children had not unnecessarily been regarded as the inevitable readers of the book. I do not deny that there is a truth in Andrew Lang's words (sentimental though they may sound): "He who would enter into the Kingdom of Faerie should have the heart of a little child." For that possession is necessary to all high adventure, into kingdoms both less and far greater than Faerie. But humility and innocence— these things "the heart of a child" must mean in such a context—do not necessarily imply an uncritical wonder, nor indeed an uncritical tenderness. Chesterton once remarked that the children in whose company he saw Maeterlinck's Blue Bird were dissatisfied "because it did not end with a Day of Judgement, and it was not revealed to the hero and the heroine that the Dog had been faithful and the Cat faithless." "For children," he says, "are innocent and love justice; while most of us are wicked and naturally prefer mercy."

Andrew Lang was confused on this point. He was at pains to defend the slaying of the Yellow Dwarf by Prince Ricardo in one of his own fairy-stories. "I hate cruelty," he said, "... but that was in fair fight, sword in hand, and the dwarf, peace to his ashes! died in harness." Yet it is not clear that "fair fight" is less cruel than "fair judgement"; or that piercing a dwarf with a sword is more just than the execution of wicked kings and evil stepmothers—which Lang abjures: he sends the criminals (as he boasts) to retirement on ample pensions. That is mercy untempered by justice. It is true that this plea was not addressed to children but to parents and guardians, to whom Lang was recommending his own Prince Prigio and Prince Ricardo as suitable for their charges. It is parents and guardians who have classified fairy-stories as Juvenilia. And this is a small sample of the falsification of values that results.

If we use child in a good sense (it has also legitimately a bad one) we must not allow that to push us into the sentimentality of only using adult or grown-up in a bad sense (it has

also legitimately a good one). The process of growing older is not necessarily allied to growing wickeder, though the two do often happen together. Children are meant to grow up, and not to become Peter Pans. Not to lose innocence and wonder, but to proceed on the appointed journey: that journey upon which it is certainly not better to travel hopefully than to arrive, though we must travel hopefully if we are to arrive. But it is one of the lessons of fairy-stories (if we can speak of the lessons of things that do not lecture) that on callow, lumpish, and selfish youth peril, sorrow, and the shadow of death can bestow dignity, and even sometimes wisdom.

Let us not divide the human race into Eloi and Morlocks: pretty children—"elves" as the eighteenth century often idiotically called them—with their fairytales (carefully pruned), and dark Morlocks tending their machines. If fairy-story as a kind is worth reading at all it is worthy to be written for and read by adults. They will, of course, put more in and get more out than children can. Then, as a branch of a genuine art, children may hope to get fairy-stories fit for them to read and yet within their measure; as they may hope to get suitable introductions to poetry, history, and the sciences. Though it may be better for them to read some things, especially fairy-stories, that are beyond their measure rather than short of it. Their books like their clothes should allow for growth, and their books at any rate should encourage it.

Very well, then. If adults are to read fairy-stories as a natural branch of literature—neither playing at being children, nor pretending to be choosing for children, nor being boys who would not grow up—what are the values and functions of this kind? That is, I think, the last and most important question. I have already hinted at some of my answers. First of all: if written with art, the prime value of fairy-stories will simply be that value which, as literature, they share with other literary forms. But fairy-stories offer also, in a peculiar degree or mode, these things: Fantasy, Recovery, Escape, Consolation, all things of which children have, as a rule, less need than older people. Most of them are nowadays very commonly considered to be bad for anybody. I will consider them briefly, and will begin with Fantasy.

Fantasy

The human mind is capable of forming mental images of things not actually present. The faculty of conceiving the images is (or was) naturally called Imagination. But in recent times, in technical not normal language, Imagination has often been held to be something higher than the mere image-making, ascribed to the operations of Fancy (a reduced and depreciatory form of the older word Fantasy); an attempt is thus made to restrict, I should say misapply, Imagination to "the power of giving to ideal creations the inner consistency of reality."

Ridiculous though it may be for one so ill-instructed to have an opinion on this critical matter, I venture to think the verbal distinction philologically inappropriate, and the analysis inaccurate. The mental power of image-making is one thing, or aspect; and it should appropriately be called Imagination. The perception of the image, the grasp of its implications, and the control, which are necessary to a successful expression, may vary in vividness and strength: but this is a difference of degree in Imagination, not a difference in kind. The achievement of the expression, which gives (or seems to give) "the inner consistency of reality," is indeed another thing, or aspect, needing another name: Art, the operative link between Imagination and the final result, Sub-creation. For my present purpose I require a word which shall embrace both the Sub-creative Art in itself and a quality of strangeness and wonder in the Expression, derived from the Image: a quality essential to fairy-story. I propose, therefore, to arrogate to myself the powers of Humpty-Dumpty, and to use Fantasy for this purpose: in a sense, that is, which combines with its older and higher use as an equivalent of Imagination the derived notions of "unreality" (that is, of unlikeness to the Primary World), of freedom from the domination of observed "fact," in short of the fantastic. I am thus not only aware but glad of the etymological and semantic connexions of fantasy with fantastic: with images of things that are not only "not actually present," but which are indeed not to be found in our primary world at all, or are generally believed not to be found there. But while admitting that, I do not assent to the depreciative tone. That the images are of things not in the primary world (if that indeed is possible) is a virtue, not a vice. Fantasy (in this sense) is, I think, not a lower but a higher form of Art, indeed the most nearly pure form, and so (when achieved) the most potent.

Fantasy, of course, starts out with an advantage: arresting strangeness. But that advantage has been turned against it, and has contributed to its disrepute. Many people dislike being "arrested." They dislike any meddling with the Primary World, or such small glimpses of it as are familiar to them. They, therefore, stupidly and even maliciously confound Fantasy with Dreaming, in which there is no Art; and with mental disorders, in which there is not even control: with delusion and hallucination.

But the error or malice, engendered by disquiet and consequent dislike, is not the only cause of this confusion. Fantasy has also an essential drawback: it is difficult to achieve. Fantasy may be, as I think, not less but more sub-creative; but at any rate it is found in practice that "the inner consistency of reality" is more difficult to produce, the more unlike are the images and the rearrangements of primary material to the actual arrangements of the Primary World. It is easier to produce this kind of "reality" with more "sober" material. Fantasy thus, too often, remains undeveloped; it is and has been used frivolously, or only half-seriously, or merely for decoration: it remains merely "fanciful." Anyone inheriting the fantastic device of human language can say the green sun. Many can then imagine or

picture it. But that is not enough—though it may already be a more potent thing than many a "thumbnail sketch" or "transcript of life" that receives literary praise.

To make a Secondary World inside which the green sun will be credible, commanding Secondary Belief, will probably require labour and thought, and will certainly demand a special skill, a kind of elvish craft. Few attempt such difficult tasks. But when they are attempted and in any degree accomplished then we have a rare achievement of Art: indeed narrative art, story-making in its primary and most potent mode.

In human art Fantasy is a thing best left to words, to true literature. In painting, for instance, the visible presentation of the fantastic image is technically too easy; the hand tends to outrun the mind, even to overthrow it. E Silliness or morbidity are frequent results. It is a misfortune that Drama, an art fundamentally distinct from Literature, should so commonly be considered together with it, or as a branch of it. Among these misfortunes we may reckon the depreciation of Fantasy. For in part at least this depreciation is due to the natural desire of critics to cry up the forms of literature or "imagination" that they themselves, innately or by training, prefer. And criticism in a country that has produced so great a Drama, and possesses the works of William Shakespeare, tends to be far too dramatic. But Drama is naturally hostile to Fantasy. Fantasy, even of the simplest kind, hardly ever succeeds in Drama, when that is presented as it should be, visibly and audibly acted. Fantastic forms are not to be counterfeited. Men dressed up as talking animals may achieve buffoonery or mimicry, but they do not achieve Fantasy. This is, I think, well illustrated by the failure of the bastard form, pantomime. The nearer it is to "dramatized fairy-story" the worse it is. It is only tolerable when the plot and its fantasy are reduced to a mere vestigiary framework for farce, and no "belief" of any kind in any part of the performance is required or expected of anybody. This is, of course, partly due to the fact that the producers of drama have to, or try to, work with mechanism to represent either Fantasy or Magic. I once saw a so-called "children's pantomime," the straight story of Puss-in-Boots, with even the metamorphosis of the ogre into a mouse. Had this been mechanically successful it would either have terrified the spectators or else have been just a turn of high-class conjuring. As it was, though done with some ingenuity of lighting, disbelief had not so much to be suspended as hanged, drawn, and quartered.

In Macbeth, when it is read, I find the witches tolerable: they have a narrative function and some hint of dark significance; though they are vulgarized, poor things of their kind. They are almost intolerable in the play. They would be quite intolerable, if I were not fortified by some memory of them as they are in the story as read. I am told that I should feel differently if I had the mind of the period, with its witch-hunts and witch-trials. But that is to say: if I regarded the witches as possible, indeed likely, in the Primary World; in other words, if they ceased to be "Fantasy." That argument concedes the point. To be dissolved, or to be degraded, is the likely fate of Fantasy when a dramatist tries to use it, even such a dramatist as Shakespeare. Macbeth is indeed a work by a playwright who

ought, at least on this occasion, to have written a story, if he had the skill or patience for that art.

A reason, more important, I think, than the inadequacy of stage-effects, is this: Drama has, of its very nature, already attempted a kind of bogus, or shall I say at least substitute, magic: the visible and audible presentation of imaginary men in a story. That is in itself an attempt to counterfeit the magician's wand. To introduce, even with mechanical success, into this quasi magical secondary world a further fantasy or magic is to demand, as it were, an inner or tertiary world. It is a world too much. To make such a thing may not be impossible. I have never seen it done with success. But at least it cannot be claimed as the proper mode of Drama, in which walking and talking people have been found to be the natural instruments of Art and illusion.^F

For this precise reason—that the characters, and even the scenes, are in Drama not imagined but actually beheld—Drama is, even though it uses a similar material (words, verse, plot), an art fundamentally different from narrative art. Thus, if you prefer Drama to Literature (as many literary critics plainly do), or form your critical theories primarily from dramatic critics, or even from Drama, you are apt to misunderstand pure story—making, and to constrain it to the limitations of stage-plays. You are, for instance, likely to prefer characters, even the basest and dullest, to things. Very little about trees as trees can be got into a play.

Now "Faërian Drama"—those plays which according to abundant records the elves have often presented to men—can produce Fantasy with a realism and immediacy beyond the compass of any human mechanism. As a result their usual effect (upon a man) is to go beyond Secondary Belief. If you are present at a Faërian drama you yourself are, or think that you are, bodily inside its Secondary World. The experience may be very similar to Dreaming and has (it would seem) sometimes (by men) been confounded with it. But in Faërian drama you are in a dream that some other mind is weaving, and the knowledge of that alarming fact may slip from your grasp. To experience directly a Secondary World: the potion is too strong, and you give to it Primary Belief, however marvellous the events. You are deluded—whether that is the intention of the elves (always or at any time) is another question. They at any rate are not themselves deluded. This is for them a form of Art, and distinct from Wizardry or Magic, properly so called. They do not live in it, though they can, perhaps, afford to spend more time at it than human artists can. The Primary World, Reality, of elves and men is the same, if differently valued and perceived.

We need a word for this elvish craft, but all the words that have been applied to it have been blurred and confused with other things. Magic is ready to hand, and I have used it above, but I should not have done so: Magic should be reserved for the operations of the Magician. Art is the human process that produces by the way (it is not its only or ultimate object) Secondary Belief. Art of the same sort, if more skilled and effortless, the elves can

also use, or so the reports seem to show; but the more potent and specially elvish craft I will, for lack of a less debatable word, call Enchantment. Enchantment produces a Secondary World into which both designer and spectator can enter, to the satisfaction of their senses while they are inside; but in its purity it is artistic in desire and purpose. Magic produces, or pretends to produce, an alteration in the Primary World. It does not matter by whom it is said to be practised, fay or mortal, it remains distinct from the other two; it is not an art but a technique; its desire is power in this world, domination of things and wills.

To the elvish craft, Enchantment, Fantasy aspires, and when it is successful of all forms of human art most nearly approaches. At the heart of many man-made stories of the elves lies, open or concealed, pure or alloyed, the desire for a living, realized sub-creative art, which (however much it may outwardly resemble it) is inwardly wholly different from the greed for self-centred power which is the mark of the mere Magician. Of this desire the elves, in their better (but still perilous) part, are largely made; and it is from them that we may learn what is the central desire and aspiration of human Fantasy—even if the elves are, all the more in so far as they are, only a product of Fantasy itself. That creative desire is only cheated by counterfeits, whether the innocent but clumsy devices of the human dramatist, or the malevolent frauds of the magicians. In this world it is for men unsatisfiable, and so imperishable. Uncorrupted, it does not seek delusion nor bewitchment and domination; it seeks shared enrichment, partners in making and delight, not slaves.

To many, Fantasy, this sub-creative art which plays strange tricks with the world and all that is in it, combining nouns and redistributing adjectives, has seemed suspect, if not illegitimate. To some it has seemed at least a childish folly, a thing only for peoples or for persons in their youth. As for its legitimacy I will say no more than to quote a brief passage from a letter Ionce wrote to a man who described myth and fairy-story as "lies"; though to do him justicehe was kind enough and confused enough to call fairy-story-making "Breathing a lie through Silver."

"Dear Sir," I said—Although now long estranged, Man is not wholly lost nor wholly changed. Disgraced he may be, yet is not dethroned, and keeps the rags of lordship once he owned: Man, Sub-creator, the refracted Light through whom is splintered from a single White to many hues, and endlessly combined in living shapes that move from mind to mind. Though all the crannies of the world we filled with Elves and Goblins, though we dared to build Gods and their houses out of dark and light,

and sowed the seed of dragons—'twas our right (used or misused). That right has not decayed: we make still by the law in which we're made."

Fantasy is a natural human activity. It certainly does not destroy or even insult Reason; and it does not either blunt the appetite for, nor obscure the perception of, scientific verity. On the contrary. The keener and the clearer is the reason, the better fantasy will it make. If men were ever in a state in which they did not want to know or could not perceive truth (facts or evidence), then Fantasy would languish until they were cured. If they ever get into that state (it would not seem at all impossible), Fantasy will perish, and become Morbid Delusion.

For creative Fantasy is founded upon the hard recognition that things are so in the world a sit appears under the sun; on a recognition of fact, but not a slavery to it. So upon logic was founded the nonsense that displays itself in the tales and rhymes of Lewis Carroll. If men really could not distinguish between frogs and men, fairy-stories about frog-kings would not have arisen.

Fantasy can, of course, be carried to excess. It can be ill done. It can be put to evil uses. It may even delude the minds out of which it came. But of what human thing in this fallen world is that not true? Men have conceived not only of elves, but they have imagined gods, and worshipped them, even worshipped those most deformed by their authors' own evil. But they have made false gods out of other materials: their notions, their banners, their monies; even their sciences and their social and economic theories have demanded human sacrifice. Abusus non tollit usum. Fantasy remains a human right: we make in our measure and in our derivative mode, because we are made: and not only made, but made in the image and likeness of a Maker.

Recovery, Escape, Consolation

As for old age, whether personal or belonging to the times in which we live, it may be true, as is often supposed, that this imposes disabilities. But it is in the main an idea produced by the mere study of fairy-stories. The analytic study of fairy-stories is as bad a preparation for the enjoying or the writing of them as would be the historical study of the drama of all lands and times for the enjoyment or writing of stage-plays. The study may indeed become depressing. It is easy for the student to feel that with all his labour he is collecting only a few leaves, many of them now torn or decayed, from the countless foliage of the Tree of Tales, with which the Forest of Days is carpeted. It seems vain to add to the litter. Who can design a new leaf? The patterns from bud to unfolding, and the colours from spring to autumn were all discovered by men long ago. But that is not true. The seed of the tree can be replanted in almost any soil, even in one so smoke-ridden (as Lang said) as that of England. Spring is, of course, not really less beautiful because we

have seen or heard of other like events: like events, never from world's beginning to world's end the same event. Each leaf, of oak and ash and thorn, is a unique embodiment of the pattern, and for some this very year may be the embodiment, the first ever seen and recognized, though oaks have put forth leaves for countless generations of men.

We do not, or need not, despair of drawing because all lines must be either curved or straight, nor of painting because there are only three "primary" colours. We may indeed be older now, in so far as we are heirs in enjoyment or in practice of many generations of ancestors in the arts. In this inheritance of wealth there may be a danger of boredom or of anxiety to be original, and that may lead to a distaste for fine drawing, delicate pattern, and "pretty" colours, or else to mere manipulation and over-elaboration of old material, clever and heartless. But the true road of escape from such weariness is not to be found in the wilfully awkward, clumsy, or misshapen, not in making all things dark or unremittingly violent; nor in the mixing of colours on through subtlety to drabness, and the fantastical complication of shapes to the point of silliness and on towards delirium. Before we reach such states we need recovery. We should look at green again, and be startled anew (but not blinded) by blue and yellow and red. We should meet the centaur and the dragon, and then perhaps suddenly behold, like the ancient shepherds, sheep, and dogs, and horses—and wolves. This recovery fairy-stories help us to make. In that sense only a taste for them may make us, or keep us, childish.

Recovery (which includes return and renewal of health) is a re-gaining—regaining of a clear view. I do not say "seeing things as they are" and involve myself with the philosophers, though I might venture to say "seeing things as we are (or were) meant to see them"—as things apart from ourselves. We need, in any case, to clean our windows; so that the things seen clearly may be freed from the drab blur of triteness or familiarity—from possessiveness. Of all faces those of our familiares are the ones both most difficult to play fantastic tricks with, and most difficult really to see with fresh attention, perceiving their likeness and unlikeness: that they are faces, and yet unique faces. This triteness is really the penalty of "appropriation": the things that are trite, or (in a bad sense) familiar, are the things that we have appropriated, legally or mentally. We say we know them. They have become like the things which once attracted us by their glitter, or their colour, or their shape, and we laid hands on them, and then locked them in our hoard, acquired them, and acquiring ceased to look at them.

Of course, fairy-stories are not the only means of recovery, or prophylactic against loss. Humility is enough. And there is (especially for the humble) Mooreeffoc, or Chestertonian Fantasy. Mooreeffoc is a fantastic word, but it could be seen written up in every town in this land. It is Coffee-room, viewed from the inside through a glass door, as it was seen by Dickens on a dark London day; and it was used by Chesterton to denote the queerness of things that have become trite, when they are seen suddenly from a new angle. That kind of "fantasy" most people would allow to be wholesome enough; and it

can never lack for material. But it has, I think, only a limited power; for the reason that recovery of freshness of vision is its only virtue. The word Mooreeffoc may cause you suddenly to realize that England is an utterly alien land, lost either in some remote past age glimpsed by history, or in some strange dim future to be reached only by a time-machine; to see the amazing oddity and interest of its inhabitants and their customs and feeding-habits; but it cannot do more than that: act as a time-telescope focused on one spot. Creative fantasy, because it is mainly trying to do something else (make something new), may open your hoard and let all the locked things fly away like cage-birds. The gems all turn into flowers or flames, and you will be warned that all you had (or knew) was dangerous and potent, not really effectively chained, free and wild; no more yours than they were you.

The "fantastic" elements in verse and prose of other kinds, even when only decorative or occasional, help in this release. But not so thoroughly as a fairy-story, a thing built on or about Fantasy, of which Fantasy is the core. Fantasy is made out of the Primary World, but a good craftsman loves his material, and has a knowledge and feeling for clay, stone and wood which only the art of making can give. By the forging of Gram cold iron was revealed; by the making of Pegasus horses were ennobled; in the Trees of the Sun and Moon root and stock, flower and fruit are manifested in glory.

And actually fairy-stories deal largely, or (the better ones) mainly, with simple or fundamental things, untouched by Fantasy, but these simplicities are made all the more luminous by their setting. For the story-maker who allows himself to be "free with" Nature can be her lover not her slave. It was in fairy-stories that I first divined the potency of the words, and the wonder of the things, such as stone, and wood, and iron; tree and grass; house and fire; bread and wine.

I will now conclude by considering Escape and Consolation, which are naturally closely connected. Though fairy-stories are of course by no means the only medium of Escape, they are today one of the most obvious and (to some) outrageous forms of "escapist" literature; and it is thus reasonable to attach to a consideration of them some considerations of this term "escape" in criticism generally.

I have claimed that Escape is one of the main functions of fairy-stories, and since I do not disapprove of them, it is plain that I do not accept the tone of scorn or pity with which "Escape" is now so often used: a tone for which the uses of the word outside literary criticism give no warrant at all. In what the misusers are fond of calling Real Life, Escape is evidently as a rule very practical, and may even be heroic. In real life it is difficult to blame it, unless it fails; in criticism it would seem to be the worse the better it succeeds. Evidently we are faced by a misuse of words, and also by a confusion of thought. Why should a man be scorned if, finding himself in prison, he tries to get out and go home? Or if, when he cannot do so, he thinks and talks about other topics than jailers and prison-

walls? The world outside has not become less real because the prisoner cannot see it. In using escape in this way the critics have chosen the wrong word, and, what is more, they are confusing, not always by sincere error, the Escape of the Prisoner with the Flight of the Deserter. Just so a Party-spokesman might have labelled departure from the misery of the Führer's or any other Reich and even criticism of it as treachery. In the same way these critics, to make confusion worse, and so to bring into contempt their opponents, stick their label of scorn not only on to Desertion, but on to real Escape, and what are often its companions, Disgust, Anger, Condemnation, and Revolt. Not only do they confound the escape of the prisoner with the flight of the deserter; but they would seem to prefer the acquiescence of the "quisling" to the resistance of the patriot. To such thinking you have only to say "the land you loved is doomed" to excuse any treachery, indeed to glorify it.

For a trifling instance: not to mention (indeed not to parade) electric street-lamps of mass produced pattern in your tale is Escape (in that sense). But it may, almost certainly does, proceed from a considered disgust for so typical a product of the Robot Age, that combines elaboration and ingenuity of means with ugliness, and (often) with inferiority of result. These lamps may be excluded from the tale simply because they are bad lamps; and it is possible that one of the lessons to be learnt from the story is the realization of this fact. But out comes the big stick: "Electric lamps have come to stay," they say. Long ago Chesterton truly remarked that, as soon as he heard that anything "had come to stay," he knew that it would be very soon replaced—indeed regarded as pitiably obsolete and shabby. "The march of Science, its tempo quickened by the needs of war, goes inexorably on... making some things obsolete, and foreshadowing new developments in the utilization of electricity": an advertisement. This says the same thing only more menacingly. The electric street-lamp may indeed be ignored, simply because it is so insignificant and transient. Fairy-stories, at any rate, have many more permanent and fundamental things to talk about. Lightning, for example. The escapist is not so subservient to the whims of evanescent fashion as these opponents. He does not make things (which it may be quite rational to regard as bad) his masters or his gods by worshipping them as inevitable, even "inexorable." And his opponents, so easily contemptuous, have no guarantee that he will stop there: he might rouse men to pull down the street-lamps. Escapism has another and even wickeder face: Reaction.

Not long ago—incredible though it may seem—I heard a clerk of Oxenford declare that he "welcomed" the proximity of mass-production robot factories, and the roar of self-obstructive mechanical traffic, because it brought his university into "contact with real life." He may have meant that the way men were living and working in the twentieth century was increasing in barbarity at an alarming rate, and that the loud demonstration of this in the streets of Oxford might serve as a warning that it is not possible to preserve for long an oasis of sanity in a desert of unreason by mere fences, without actual offensive

action (practical and intellectual). I fear he did not. In any case the expression "real life" in this context seems to fall short of academic standards. The notion that motor-cars are more "alive" than, say, centaurs or dragons is curious; that they are more "real" than, say, horses is pathetically absurd. How real, how startlingly alive is a factory chimney compared with an elm-tree: poor obsolete thing, insubstantial dream of an escapist!

For my part, I cannot convince myself that the roof of Bletchley station is more "real" than the clouds. And as an artefact I find it less inspiring than the legendary dome of heaven. Thebridge to platform 4 is to me less interesting than Bifröst guarded by Heimdall with the Gjallarhorn. From the wildness of my heart I cannot exclude the question whether railway engineers ,if they had been brought up on more fantasy, might not have done better with all their abundant means than they commonly do. Fairy-stories might be, I guess, better Masters of Arts than the academic person I have referred to.

Much that he (I must suppose) and others (certainly) would call "serious" literature is no more than play under a glass roof by the side of a municipal swimming-bath. Fairy-stories may invent monsters that fly the air or dwell in the deep, but at least they do not try to escape from heaven or the sea.

And if we leave aside for a moment "fantasy," I do not think that the reader or the maker of fairy-stories need even be ashamed of the "escape" of archaism: of preferring not dragons but horses, castles, sailing-ships, bows and arrows; not only elves, but knights and kings and priests. For it is after all possible for a rational man, after reflection (quite unconnected with fairy-story or romance), to arrive at the condemnation, implicit at least in the mere silence of "escapist" literature, of progressive things like factories, or the machine-guns and bombs that appear to be their most natural and inevitable, dare we say "inexorable," products.

"The rawness and ugliness of modern European life"—that real life whose contact we should welcome —"is the sign of a biological inferiority, of an insufficient or false reaction to environment." The maddest castle that ever came out of a giant's bag in a wild Gaelic story is not only much less ugly than a robot-factory, it is also (to use a very modern phrase) "in a very real sense" a great deal more real. Why should we not escape from or condemn the "grim Assyrian" absurdity of top-hats, or the Morlockian horror of factories? They are condemned even by the writers of that most escapist form of all literature, stories of Science fiction. These prophets often foretell (and many seem to yearn for) a world like one big glass-roofed railway-station. But from them it is as a rule very hard to gather what men in such a world-town will do. They may abandon the "full Victorian panoply" for loose garments (with zip-fasteners), but will use this freedom mainly, it would appear, in order to play with mechanical toys in the soon-cloying game of moving at high speed. To judge by some of these tales they will still be as lustful, vengeful, and greedy as ever; and the ideals of their idealists hardly reach farther than the splendid notion of building

more towns of the same sort on other planets. It is indeed an age of "improved means to deteriorated ends." It is part of the essential malady of such days—producing the desire to escape, not indeed from life, but from our present time and self-made misery—that we are acutely conscious both of the ugliness of our works, and of their evil. So that to us evil and ugliness seem indissolubly allied. We find it difficult to conceive of evil and beauty together. The fear of the beautiful fay that ran through the elder ages almost eludes our grasp. Even more alarming: goodness is itself bereft of its proper beauty. In Faerie one can indeed conceive of an ogre who possesses a castle hideous as a nightmare (for the evil of the ogre wills it so), but one cannot conceive of a house built with a good purpose—an inn, a hostel for travellers, the hall of a virtuous and noble king—that is yet sickeningly ugly. At the present day it would be rash to hope to see one that was not—unless it was built before our time.

This, however, is the modern and special (or accidental) "escapist" aspect of fairy-stories, which they share with romances, and other stories out of or about the past. Many stories out of the past have only become "escapist" in their appeal through surviving from a time when men were as a rule delighted with the work of their hands into our time, when many men feel disgust with man-made things.

But there are also other and more profound "escapisms" that have always appeared in fairytale and legend. There are other things more grim and terrible to fly from than the noise, stench, ruthlessness, and extravagance of the internal-combustion engine. There are hunger, thirst, poverty, pain, sorrow, injustice, death. And even when men are not facing hard things such as these, there are ancient limitations from which fairy-stories offer a sort of escape, and old ambitions and desires (touching the very roots of fantasy) to which they offer a kind of satisfaction and consolation. Some are pardonable weaknesses or curiosities: such as the desire to visit, free as a fish, the deep sea; or the longing for the noiseless, gracious, economical flight of a bird, that longing which the aeroplane cheats, except in rare moments, seen high and by wind and distance noiseless, turning in the sun: that is, precisely when imagined and not used. There are profounder wishes: such as the desire to converse with other living things. On this desire, as ancient as the Fall, is largely founded the talking of beasts and creatures in fairy-tales, and especially the magical understanding of their proper speech. This is the root, and not the "confusion" attributed to the minds of men of the unrecorded past, an alleged "absence of the sense of separation of ourselves from beasts." A vivid sense of that separation is very ancient; but also a sense that it was a severance: a strange fate and a guilt lies on us. Other creatures are like other realms with which Man has broken off relations, and sees now only from the outside at a distance, being at war with them, or on the terms of an uneasy armistice. There are a few men who are privileged to travel abroad a little; others must be content with travellers' tales. Even about frogs. In speaking of that rather odd but widespread fairy-story The Frog-King Max Müller asked in his prim way: "How came such a story

ever to be invented? Human beings were, we may hope, at all times sufficiently enlightened to know that a marriage between a frog and the daughter of a queen was absurd." Indeed we may hope so! For if not, there would be no point in this story at all, depending as it does essentially on the sense of the absurdity. Folk-lore origins (or guesses about them) are here quite beside the point. It is of little avail to consider totemism. For certainly, whatever customs or beliefs about frogs and wells lie behind this story, the frog shape was and is preserved in the fairy-story precisely because it was so queer and the marriage absurd, indeed abominable. Though, of course, in the versions which concern us, Gaelic, German, English, there is in fact no wedding between a princess and a frog: the frog was an enchanted prince. And the point of the story lies not in thinking frogs possible mates, but in the necessity of keeping promises (even those with intolerable consequences) that, together with observing prohibitions, runs through all Fairyland. This is one of the notes of the horns of Elfland, and not a dim note.

And lastly there is the oldest and deepest desire, the Great Escape: the Escape from Death. Fairy-stories provide many examples and modes of this—which might be called the genuine escapist, or (I would say) fugitive spirit. But so do other stories (notably those of scientific inspiration), and so do other studies. Fairy-stories are made by men not by fairies. The Human-stories of the elves are doubtless full of the Escape from Deathlessness. But our stories cannot be expected always to rise above our common level. They often do. Few lessons are taught more clearly in them than the burden of that kind of immortality, or rather endless serial living, to which the "fugitive" would fly. For the fairy-story is specially apt to teach such things, of old and still today. Death is the theme that most inspired George MacDonald.

But the "consolation" of fairy-tales has another aspect than the imaginative satisfaction of ancient desires. Far more important is the Consolation of the Happy Ending. Almost I would venture to assert that all complete fairy-stories must have it. At least I would say that Tragedy is the true form of Drama, its highest function; but the opposite is true of Fairy-story. Since we do not appear to possess a word that expresses this opposite—I will call it Eucatastrophe. The eucatastrophic tale is the true form of fairy-tale, and its highest function.

The consolation of fairy-stories, the joy of the happy ending: or more correctly of the good catastrophe, the sudden joyous "turn" (for there is no true end to any fairy-tale): H this joy, which is one of the things which fairy-stories can produce supremely well, is not essentially "escapist," nor "fugitive." In its fairy-tale—or otherworld—setting, it is a sudden and miraculous grace: never to be counted on to recur. It does not deny the existence of dyscatastrophe, of sorrow and failure: the possibility of these is necessary to the joy of deliverance; it denies (in the face of much evidence, if you will) universal final defeat and inso far is evangelium, giving a fleeting glimpse of Joy, Joy beyond the walls of the world, poignant as grief.

It is the mark of a good fairy-story, of the higher or more complete kind, that however wild its events, however fantastic or terrible the adventures, it can give to child or man that hears it, when the "turn" comes, a catch of the breath, a beat and lifting of the heart, near to (or indeed accompanied by) tears, as keen as that given by any form of literary art, and having a peculiar quality.

Even modern fairy-stories can produce this effect sometimes. It is not an easy thing to do; it depends on the whole story which is the setting of the turn, and yet it reflects a glory backwards. A tale that in any measure succeeds in this point has not wholly failed, whatever flaws it may possess, and whatever mixture or confusion of purpose. It happens even in Andrew Lang's own fairy-story, Prince Prigio, unsatisfactory in many ways as that is. When "each knight came alive and lifted his sword and shouted 'long live Prince Prigio,' "the joy has a little of that strange mythical fairy-story quality, greater than the event described. It would have none in Lang's tale, if the event described were not a piece of more serious fairy-story "fantasy" than the main bulk of the story, which is in general more frivolous, having the half-mocking smile of the courtly, sophisticated Conte. Far more powerful and poignant is the effect in a serious tale of Faërie. In such stories when the sudden "turn" comes we get a piercing glimpse of joy, and heart's desire, that for a moment passes outside the frame, rends indeed the very web of story, and lets a gleam come through.

"Seven long years I served for thee,
The glassy hill I clamb for thee,
The bluidy shirt I wrang for thee,
And wilt thou not wauken and turn to me?"
He heard and turned to her.

Epilogue

This "joy" which I have selected as the mark of the true fairy-story (or romance), or as the seal upon it, merits more consideration.

Probably every writer making a secondary world, a fantasy, every sub-creator, wishes in some measure to be a real maker, or hopes that he is drawing on reality: hopes that the peculiar quality of this secondary world (if not all the details) are derived from Reality, or are flowing into it. If he indeed achieves a quality that can fairly be described by the dictionary definition: "inner consistency of reality," it is difficult to conceive how this can be, if the work does not in some way partake of reality. The peculiar quality of the "joy" in successful Fantasy can thus be explained as a sudden glimpse of the underlying reality or truth. It is not only a "consolation" for the sorrow of this world, but a satisfaction, and an answer to that question, "Is it true?" The answer to this question that I gave at first was (quite rightly): "If you have built your little world well, yes: it is true in that world." That is

enough for the artist (or the artist part of the artist). But in the "eucatastrophe" we see in a brief vision that the answer may be greater—it may be a far-off gleam or echo of evangelium in the real world. The use of this word gives a hint of my epilogue. It is a serious and dangerous matter. It is presumptuous of me to touch upon such a theme; but if by grace what I say has in any respect any validity, it is, of course, only one facet of a truth incalculably rich: finite only because the capacity of Man for whom this was done is finite.

I would venture to say that approaching the Christian Story from this direction, it has long been my feeling (a joyous feeling) that God redeemed the corrupt making-creatures, men, in a way fitting to this aspect, as to others, of their strange nature. The Gospels contain a fairy-story,or a story of a larger kind which embraces all the essence of fairy-stories. They contain many marvels—peculiarly artistic, beautiful, and moving: "mythical" in their perfect, self-contained significance; and among the marvels is the greatest and most complete conceivable eucatastrophe. But this story has entered History and the primary world; the desire and aspiration of sub-creation has been raised to the fulfillment of Creation. The Birth of Christ is the eucatastrophe of Man's history. The Resurrection is the eucatastrophe of the story of the Incarnation. This story begins and ends in joy. It has pre-eminently the "inner consistency of reality." There is no tale ever told that men would rather find was true, and none which so many sceptical men have accepted as true on its own merits. For the Art of it has the supremely convincing tone of Primary Art, that is, of Creation. To reject it leads either to sadness or to wrath.

It is not difficult to imagine the peculiar excitement and joy that one would feel, if any specially beautiful fairy-story were found to be "primarily" true, its narrative to be history, without thereby necessarily losing the mythical or allegorical significance that it had possessed. It is not difficult, for one is not called upon to try and conceive anything of a quality unknown. The joy would have exactly the same quality, if not the same degree, as the joy which the "turn" in a fairy-story gives: such joy has the very taste of primary truth. (Otherwise its name would not be joy.) It looks forward (or backward: the direction in this regard is unimportant) to the Great Eucatastrophe. The Christian joy, the Gloria, is of the same kind; but it is preeminently (infinitely, if our capacity were not finite) high and joyous. But this story is supreme; and it is true. Art has been verified. God is the Lord, of angels, and of men—and of elves. Legend and History have met and fused.

Notes

A. The very root (not only the use) of their "marvels" is satiric, a mockery of unreason; and the "dream" element is not a mere machinery of introduction and ending, but inherent in the action and transitions. These things children can perceive and appreciate, if left to themselves. But to many, as it was to me, Alice is presented as a fairy-story and while this misunderstanding lasts, the distaste for the dream-machinery is felt. There is no

suggestion of dream in The Wind in the Willows. "The Mole had been working very hard all the morning, spring-cleaning his little house." So it begins, and that correct tone is maintained. It is all the more remarkable that A. A. Milne, so great an admirer of this excellent book, should have prefaced to his dramatized version a "whimsical" opening in which a child is seen telephoning with a daffodil. Or perhaps it is not very remarkable, for a perceptive admirer (as distinct from a great admirer) of the book would never have attempted to dramatize it. Naturally only the simpler ingredients, the pantomime, and the satiric beast-fable elements, are capable of presentation in this form. The play is, on the lower level of drama, tolerably good fun, especially for those who have not read the book; but some children that I took to see Toad of Toad Hall, brought away as their chief memory nausea at the opening. For the rest they preferred their recollections of the book.

B. Of course, these details, as a rule, got into the tales, even in the days when they were real practices, because they had a story-making value. If I were to write a story in which it happened that a man was hanged, that might show in later ages, if the story survived—in itself a sign that the story possessed some permanent, and more than local or temporary, value—that it was written at a period when men were really hanged, as a legal practice. Might: the inference would not, of course, in that future time be certain. For certainty on that point the future inquirer would have to know definitely when hanging was practised and when I lived. I could have borrowed the incident from other times and places, from other stories; I could simply have invented it. But even if this inference happened to be correct, the hanging scene would only occur in the story, (a) because I was aware of the dramatic, tragic, or macabre force of this incident in my tale, and (b) because those who handed it down felt this force enough to make them keep the incident in. Distance of time, sheer antiquity and alienness, might later sharpen the edge of the tragedy or the horror; but the edge must be there even for the elvish hone of antiquity to whet it. The least useful question, therefore, for literary critics at any rate, to ask or to answer about Iphigeneia, daughter of Agamemnon, is: Does the legend of her sacrifice at Aulis come down from a time when human sacrifice was commonly practised? I say only "as a rule," because it is conceivable that what is now regarded as a "story" was once something different in intent: e.g. a record of fact or ritual. I mean "record" strictly. A story invented to explain a ritual (a process that is sometimes supposed to have frequently occurred) remains primarily a story. It takes form as such, and will survive (long after the ritual evidently) only because of its story values. In some cases details that now are notable merely because they are strange may have once been so everyday and unregarded that they were slipped in casually: like mentioning that a man "raised his hat," or "caught a train." But such casual details will not long survive change in everyday habits. Not in a period of oral transmission. In a period of writing (and of rapid changes in habits) a story may remain unchanged long enough for even its casual details to acquire the value of quaintness or queerness. Much of Dickens now has this air. One can open today an edition of a novel of his that was bought and first read when things were so in everyday

life as they are in the story, though these everyday details are now already as remote from our daily habits as the Elizabethan period. But that is a special modern situation. The anthropologists and folk-lorists do not imagine any conditions of that kind. But if they are dealing with unlettered oral transmission, then they should all the more reflect that in that case they are dealing with items whose primary object was story-building, and whose primary reason for survival was the same. The Frog-King is not a Credo, nor a manual of totem-law: it is a queer tale with a plain moral.

C. As far as my knowledge goes, children who have an early bent for writing have no special inclination to attempt the writing of fairy-stories, unless that has been almost the sole form of literature presented to them; and they fail most markedly when they try. It is not an easy form. If children have any special leaning it is to Beast-fable, which adults often confuse with Fairy-story. The best stories by children that I have seen have been either "realistic" (in intent), or have had as their characters animals and birds, who were in the main the zoomorphic human beings usual in Beast-fable. I imagine that this form is so often adopted principally because it allows a large measure of realism: the representation of domestic events and talk that children really know. The form itself is, however, as a rule, suggested or imposed by adults. It has a curious preponderance in the literature, good and bad, that is nowadays commonly presented to young children: I suppose it is felt to go with "Natural History," semi-scientific books about beasts and birds that are also considered to be proper pabulum for the young. And it is reinforced by the bears and rabbits that seem in recent times almost to have ousted human dolls from the playrooms even of little girls. Children make up sagas, often long and elaborate, about their dolls. If these are shaped like bears, bears will be the characters of the sagas; but they will talk like people.

D. I was introduced to zoology and palaeontology ("for children") quite as early as to Faerie. I saw pictures of living beasts and of true (so I was told) prehistoric animals. I liked the "prehistoric" animals best: they had at least lived long ago, and hypothesis (based on somewhat slender evidence) cannot avoid a gleam of fantasy. But I did not like being told that these creatures were "dragons." I can still re-feel the irritation that I felt in childhood at assertions of instructive relatives (or their gift-books) such as these: "snowflakes are fairy jewels," or "are more beautiful than fairy jewels"; "the marvels of the ocean depths are more wonderful than fairyland." Children expect the differences they feel but cannot analyse to be explained by their elders, or at least recognized, not to be ignored or denied. I was keenly alive to the beauty of "Real things," but it seemed to me quibbling to confuse this with the wonder of "Other things." I was eager to study Nature, actually more eager than I was to read most fairy stories; but I did not want to be quibbled into Science and cheated out of Faerie by people who seemed to assume that by some kind of original sin I should prefer fairy-tales, but according to some kind of new religion I ought to be induced to like science. Nature is no doubt a life-study, or a study

for eternity (for those so gifted); but there is a part of man which is not "Nature," and which therefore is not obliged to study it, and is, in fact, wholly unsatisfied by it.

E. There is, for example, in surrealism commonly present a morbidity or un-ease very rarely found in literary fantasy. The mind that produced the depicted images may often be suspected to have been in fact already morbid; yet this is not a necessary explanation in all cases. A curious disturbance of the mind is often set up by the very act of drawing things of this kind, a state similar in quality and consciousness of morbidity to the sensations in a high fever, when the mind develops a distressing fecundity and facility in figure-making, seeing forms sinister or grotesque in all visible objects about it. I am speaking here, of course, of the primary expression of Fantasy in "pictorial" arts, not of "illustrations"; nor of the cinematograph. However good in themselves, illustrations do little good to fairystories. The radical distinction between all art (including drama) that offers a visible presentation and true literature is that it imposes one visible form. Literature works from mind to mind and is thus more progenitive. It is at once more universal and more poignantly particular. If it speaks of bread or wine or stone or tree, it appeals to the whole of these things, to their ideas; yet each hearer will give to them a peculiar personal embodiment in his imagination. Should the story say "he ate bread," the dramatic producer or painter can only show "a piece of bread" according to his taste or fancy, but the hearer of the story will think of bread in general and picture it in some form of his own. If a story says "he climbed a hill and saw a river in the valley below," the illustrator may catch, or nearly catch, his own vision of such a scene; but every hearer of the words will have his own picture, and it will be made out of all the hills and rivers and dales he has ever seen, but especially out of The Hill, The River, The Valley which were for him the first embodiment of the word.

F. I am referring, of course, primarily to fantasy of forms and visible shapes. Drama can be made out of the impact upon human characters of some event of Fantasy, or Faerie, that requires no machinery, or that can be assumed or reported to have happened. But that is not fantasy in dramatic result; the human characters hold the stage and upon them attention is concentrated. Drama of this sort (exemplified by some of Barrie's plays) can be used frivolously, or it can be used for satire, or for conveying such "messages" as the playwright may have in his mind—for men. Drama is anthropocentric. Fairy-story and Fantasy need not be. There are, for instance, many stories telling how men and women have disappeared and spent years among the fairies, without noticing the passage of time, or appearing to grow older. In Mary Rose Barrie wrote a play on this theme. No fairy is seen. The cruelly tormented human beings are there all the time. In spite of the sentimental star and the angelic voices at the end (in the printed version) it is a painful play, and can easily be made diabolic: by substituting (as I have seen it done) the elvish call for "angel voices" at the end. The non-dramatic fairy-stories, in so far as they are concerned with the human victims, can also be pathetic or horrible. But they need not be.

In most of them the fairies are also there, on equal terms. In some stories they are the real interest. Many of the short folk-lore accounts of such incidents purport to be just pieces of "evidence" about fairies, items in an age long accumulation of "lore" concerning them and the modes of their existence. The sufferings of human beings who come into contact with them (often enough, wilfully) are thus seen in quite a different perspective. A drama could be made about the sufferings of a victim of research in radiology, but hardly about radium itself. But it is possible to be primarily interested in radium (not radiologists)—or primarily interested in Faerie, not tortured mortals. One interest will produce a scientific book, the other a fairy-story. Drama cannot well cope with either.

G. The absence of this sense is a mere hypothesis concerning men of the lost past, whatever wild confusions men of today, degraded or deluded, may suffer. It is just as legitimate an hypothesis, and one more in agreement with what little is recorded concerning the thoughts of men of old on this subject, that this sense was once stronger. That fantasies which blended the human form with animal and vegetable forms, or gave human faculties to beasts, are ancient is, of course, no evidence for confusion at all. It is, if anything, evidence to the contrary. Fantasy does not blur the sharp outlines of the real world; for it depends on them. As far as our western, European, world is concerned, this "sense of separation" has in fact been attacked and weakened in modern times not by fantasy but by scientific theory. Not by stories of centaurs or werewolves or enchanted bears, but by the hypotheses (or dogmatic guesses) of scientific writers who classed Man not only as "an animal"—that correct classification is ancient—but as "only an animal." There has been a consequent distortion of sentiment. The natural love of men not wholly corrupt for beasts, and the human desire to "get inside the skin" of living things, has run riot. We now get men who love animals more than men; who pity sheep so much that they curse shepherds as wolves; who weep over a slain war-horse and vilify dead soldiers. It is now, not in the days when fairy-stories were begotten, that we get "an absence of the sense of separation."

H. The verbal ending—usually held to be as typical of the end of fairy-stories as "once upon a time" is of the beginning—"and they lived happily ever after" is an artificial device. It does not deceive anybody. End-phrases of this kind are to be compared to the margins and frames of pictures, and are no more to be thought of as the real end of any particular fragment of the seamless Web of Story than the frame is of the visionary scene, or the casement of the Outer World. These phrases may be plain or elaborate, simple or extravagant, as artificial and as necessary as frames plain, or carved, or gilded. "And if they have not gone away they are there still." "My story is done—see there is a little mouse; anyone who catches it may make himself a fine fur cap of it." "And they lived happily ever after." "And when the wedding was over, they sent me home with little paper shoes on a causeway of pieces of glass."

Endings of this sort suit fairy-stories, because such tales have a greater sense and grasp of the endlessness of the World of Story than most modern "realistic" stories, already hemmed within the narrow confines of their own small time. A sharp cut in the endless tapestry is not unfittingly marked by a formula, even a grotesque or comic one. It was an irresistible development of modern illustration (so largely photographic) that borders should be abandoned and the "picture" end only with the paper. This method may be suitable for photographs; but it is altogether inappropriate for the pictures that illustrate or are inspired by fairy-stories. An enchanted forest requires a margin, even an elaborate border. To print it conterminous with the page, like a "shot" of the Rockies in Picture Post, as if it were indeed a "snap" of fairyland or a "sketch by our artist on the spot," is a folly and an abuse.

As for the beginnings of fairy-stories: one can scarcely improve on the formula Once upon atime. It has an immediate effect. This effect can be appreciated by reading, for instance, the fairy-story The Terrible Head in the Blue Fairy Book. It is Andrew Lang's own adaptation of the story of Perseus and the Gorgon. It begins "once upon a time," and it does not name any year or land or person. Now this treatment does something which could be called "turning mythology into fairy-story." I should prefer to say that it turns high fairy-story (for such is the Greek tale) into a particular form that is at present familiar in our land: a nursery or "old wives" form. Namelessness is not a virtue but an accident, and should not have been imitated; for vagueness in this regard is a debasement, a corruption due to forgetfulness and lack of skill. But not so, I think, the timelessness. That beginning is not poverty-stricken but significant. It produces at a stroke the sense of a great uncharted world of time.

Nicomachean Ethics

by Aristotle

Book 1

1

Every art and every inquiry, and similarly every action and pursuit, is thought to aim at some good; and for this reason the good has rightly been declared to be that at which all things aim. But a certain difference is found among ends; some are activities, others are products apart from the activities that produce them. Where there are ends apart from the actions, it is the nature of the products to be better than the activities. Now, as there are many actions, arts, and sciences, their ends also are many; the end of the medical art is health, that of shipbuilding a vessel, that of strategy victory, that of economics wealth. But where such arts fall under a single capacity— as bridle—making and the other arts concerned with the equipment of horses fall under the art of riding, and this and every military action under strategy, in the same way other arts fall under yet others— in all of these the ends of the master arts are to be preferred to all the subordinate ends; for it is for the sake of the former that the latter are pursued. It makes no difference whether the activities themselves are the ends of the actions, or something else apart from the activities, as in the case of the sciences just mentioned.

2

If, then, there is some end of the things we do, which we desire for its own sake (everything else being desired for the sake of this), and if we do not choose everything for the sake of something else (for at that rate the process would go on to infinity, so that our desire would be empty and vain), clearly this must be the good and the chief good. Will not the knowledge of it, then, have a great influence on life? Shall we not, like archers who have a mark to aim at, be more likely to hit upon what is right? If so, we must try, in outline at least, to determine what it is, and of which of the sciences or capacities it is the object. It would seem to belong to the most authoritative art and that which is most truly the master art. And politics appears to be of this nature; for it is this that ordains which of the sciences should be studied in a state, and which each class of citizens should learn and up to what point they should learn them; and we see even the most highly esteemed of capacities to fall under this, e.g. strategy, economics, rhetoric; now, since politics uses the

rest of the sciences, and since, again, it legislates as to what we are to do and what we are to abstain from, the end of this science must include those of the others, so that this end must be the good for man. For even if the end is the same for a single man and for a state, that of the state seems at all events something greater and more complete whether to attain or to preserve; though it is worth while to attain the end merely for one man, it is finer and more godlike to attain it for a nation or for city-states. These, then, are the ends at which our inquiry aims, since it is political science, in one sense of that term.

3

Our discussion will be adequate if it has as much clearness as the subject-matter admits of, for precision is not to be sought for alike in all discussions, any more than in all the products of the crafts. Now fine and just actions, which political science investigates, admit of much variety and fluctuation of opinion, so that they may be thought to exist only by convention, and not by nature. And goods also give rise to a similar fluctuation because they bring harm to many people; for before now men have been undone by reason of their wealth, and others by reason of their courage. We must be content, then, in speaking of such subjects and with such premisses to indicate the truth roughly and in outline, and in speaking about things which are only for the most part true and with premisses of the same kind to reach conclusions that are no better. In the same spirit, therefore, should each type of statement be received; for it is the mark of an educated man to look for precision in each class of things just so far as the nature of the subject admits; it is evidently equally foolish to accept probable reasoning from a mathematician and to demand from a rhetorician scientific proofs.

Now each man judges well the things he knows, and of these he is a good judge. And so the man who has been educated in a subject is a good judge of that subject, and the man who has received an all-round education is a good judge in general. Hence a young man is not a proper hearer of lectures on political science; for he is inexperienced in the actions that occur in life, but its discussions start from these and are about these; and, further, since he tends to follow his passions, his study will be vain and unprofitable, because the end aimed at is not knowledge but action. And it makes no difference whether he is young in years or youthful in character; the defect does not depend on time, but on his living, and pursuing each successive object, as passion directs. For to such persons, as to the incontinent, knowledge brings no profit; but to those who desire and act in accordance with a rational principle knowledge about such matters will be of great benefit.

These remarks about the student, the sort of treatment to be expected, and the purpose of the inquiry, may be taken as our preface.

4

Let us resume our inquiry and state, in view of the fact that all knowledge and every pursuit aims at some good, what it is that we say political science aims at and what is the highest of all goods achievable by action. Verbally there is very general agreement; for both the general run of men and people of superior refinement say that it is happiness, and identify living well and doing well with being happy; but with regard to what happiness is they differ, and the many do not give the same account as the wise. For the former think it is some plain and obvious thing, like pleasure, wealth, or honour; they differ, however, from one another- and often even the same man identifies it with different things, with health when he is ill, with wealth when he is poor; but, conscious of their ignorance, they admire those who proclaim some great ideal that is above their comprehension. Now some thought that apart from these many goods there is another which is self-subsistent and causes the goodness of all these as well. To examine all the opinions that have been held were perhaps somewhat fruitless; enough to examine those that are most prevalent or that seem to be arguable.

Let us not fail to notice, however, that there is a difference between arguments from and those to the first principles. For Plato, too, was right in raising this question and asking, as he used to do, 'are we on the way from or to the first principles?' There is a difference, as there is in a race-course between the course from the judges to the turning-point and the way back. For, while we must begin with what is known, things are objects of knowledge in two senses- some to us, some without qualification. Presumably, then, we must begin with things known to us. Hence any one who is to listen intelligently to lectures about what is noble and just, and generally, about the subjects of political science must have been brought up in good habits. For the fact is the starting-point, and if this is sufficiently plain to him, he will not at the start need the reason as well; and the man who has been well brought up has or can easily get starting points. And as for him who neither has nor can get them, let him hear the words of Hesiod:

Far best is he who knows all things himself; Good, he that hearkens when men counsel right; But he who neither knows, nor lays to heart Another's wisdom, is a useless wight.

5

Let us, however, resume our discussion from the point at which we digressed. To judge from the lives that men lead, most men, and men of the most vulgar type, seem (not without some ground) to identify the good, or happiness, with pleasure; which is the

reason why they love the life of enjoyment. For there are, we may say, three prominent types of life- that just mentioned, the political, and thirdly the contemplative life. Now the mass of mankind are evidently quite slavish in their tastes, preferring a life suitable to beasts, but they get some ground for their view from the fact that many of those in high places share the tastes of Sardanapallus. A consideration of the prominent types of life shows that people of superior refinement and of active disposition identify happiness with honour; for this is, roughly speaking, the end of the political life. But it seems too superficial to be what we are looking for, since it is thought to depend on those who bestow honour rather than on him who receives it, but the good we divine to be something proper to a man and not easily taken from him. Further, men seem to pursue honour in order that they may be assured of their goodness; at least it is by men of practical wisdom that they seek to be honoured, and among those who know them, and on the ground of their virtue; clearly, then, according to them, at any rate, virtue is better. And perhaps one might even suppose this to be, rather than honour, the end of the political life. But even this appears somewhat incomplete; for possession of virtue seems actually compatible with being asleep, or with lifelong inactivity, and, further, with the greatest sufferings and misfortunes; but a man who was living so no one would call happy, unless he were maintaining a thesis at all costs. But enough of this; for the subject has been sufficiently treated even in the current discussions. Third comes the contemplative life, which we shall consider later.

The life of money-making is one undertaken under compulsion, and wealth is evidently not the good we are seeking; for it is merely useful and for the sake of something else. And so one might rather take the aforenamed objects to be ends; for they are loved for themselves. But it is evident that not even these are ends; yet many arguments have been thrown away in support of them. Let us leave this subject, then.

6

We had perhaps better consider the universal good and discuss thoroughly what is meant by it, although such an inquiry is made an uphill one by the fact that the Forms have been introduced by friends of our own. Yet it would perhaps be thought to be better, indeed to be our duty, for the sake of maintaining the truth even to destroy what touches us closely, especially as we are philosophers or lovers of wisdom; for, while both are dear, piety requires us to honour truth above our friends.

The men who introduced this doctrine did not posit Ideas of classes within which they recognized priority and posteriority (which is the reason why they did not maintain the existence of an Idea embracing all numbers); but the term 'good' is used both in the category of substance and in that of quality and in that of relation, and that which is per se, i.e. substance, is prior in nature to the relative (for the latter is like an off shoot and

accident of being); so that there could not be a common Idea set over all these goods. Further, since 'good' has as many senses as 'being' (for it is predicated both in the category of substance, as of God and of reason, and in quality, i.e. of the virtues, and in quantity, i.e. of that which is moderate, and in relation, i.e. of the useful, and in time, i.e. of the right opportunity, and in place, i.e. of the right locality and the like), clearly it cannot be something universally present in all cases and single; for then it could not have been predicated in all the categories but in one only. Further, since of the things answering to one Idea there is one science, there would have been one science of all the goods; but as it is there are many sciences even of the things that fall under one category, e.g. of opportunity, for opportunity in war is studied by strategics and in disease by medicine, and the moderate in food is studied by medicine and in exercise by the science of gymnastics. And one might ask the question, what in the world they mean by 'a thing itself', is (as is the case) in 'man himself' and in a particular man the account of man is one and the same. For in so far as they are man, they will in no respect differ; and if this is so, neither will 'good itself' and particular goods, in so far as they are good. But again it will not be good any the more for being eternal, since that which lasts long is no whiter than that which perishes in a day. The Pythagoreans seem to give a more plausible account of the good, when they place the one in the column of goods; and it is they that Speusippus seems to have followed.

But let us discuss these matters elsewhere; an objection to what we have said, however, may be discerned in the fact that the Platonists have not been speaking about all goods, and that the goods that are pursued and loved for themselves are called good by reference to a single Form, while those which tend to produce or to preserve these somehow or to prevent their contraries are called so by reference to these, and in a secondary sense. Clearly, then, goods must be spoken of in two ways, and some must be good in themselves, the others by reason of these. Let us separate, then, things good in themselves from things useful, and consider whether the former are called good by reference to a single Idea. What sort of goods would one call good in themselves? Is it those that are pursued even when isolated from others, such as intelligence, sight, and certain pleasures and honours? Certainly, if we pursue these also for the sake of something else, yet one would place them among things good in themselves. Or is nothing other than the Idea of good good in itself? In that case the Form will be empty. But if the things we have named are also things good in themselves, the account of the good will have to appear as something identical in them all, as that of whiteness is identical in snow and in white lead. But of honour, wisdom, and pleasure, just in respect of their goodness, the accounts are distinct and diverse. The good, therefore, is not some common element answering to one Idea.

But what then do we mean by the good? It is surely not like the things that only chance to have the same name. Are goods one, then, by being derived from one good or by all

contributing to one good, or are they rather one by analogy? Certainly as sight is in the body, so is reason in the soul, and so on in other cases. But perhaps these subjects had better be dismissed for the present; for perfect precision about them would be more appropriate to another branch of philosophy. And similarly with regard to the Idea; even if there is some one good which is universally predicable of goods or is capable of separate and independent existence, clearly it could not be achieved or attained by man; but we are now seeking something attainable. Perhaps, however, some one might think it worth while to recognize this with a view to the goods that are attainable and achievable; for having this as a sort of pattern we shall know better the goods that are good for us, and if we know them shall attain them. This argument has some plausibility, but seems to clash with the procedure of the sciences; for all of these, though they aim at some good and seek to supply the deficiency of it, leave on one side the knowledge of the good. Yet that all the exponents of the arts should be ignorant of, and should not even seek, so great an aid is not probable. It is hard, too, to see how a weaver or a carpenter will be benefited in regard to his own craft by knowing this 'good itself', or how the man who has viewed the Idea itself will be a better doctor or general thereby. For a doctor seems not even to study health in this way, but the health of man, or perhaps rather the health of a particular man; it is individuals that he is healing. But enough of these topics.

7

Let us again return to the good we are seeking, and ask what it can be. It seems different in different actions and arts; it is different in medicine, in strategy, and in the other arts likewise. What then is the good of each? Surely that for whose sake everything else is done. In medicine this is health, in strategy victory, in architecture a house, in any other sphere something else, and in every action and pursuit the end; for it is for the sake of this that all men do whatever else they do. Therefore, if there is an end for all that we do, this will be the good achievable by action, and if there are more than one, these will be the goods achievable by action.

So the argument has by a different course reached the same point; but we must try to state this even more clearly. Since there are evidently more than one end, and we choose some of these (e.g. wealth, flutes, and in general instruments) for the sake of something else, clearly not all ends are final ends; but the chief good is evidently something final. Therefore, if there is only one final end, this will be what we are seeking, and if there are more than one, the most final of these will be what we are seeking. Now we call that which is in itself worthy of pursuit more final than that which is worthy of pursuit for the sake of something else, and that which is never desirable for the sake of something else more final than the things that are desirable both in themselves and for the sake of that

other thing, and therefore we call final without qualification that which is always desirable in itself and never for the sake of something else.

Now such a thing happiness, above all else, is held to be; for this we choose always for self and never for the sake of something else, but honour, pleasure, reason, and every virtue we choose indeed for themselves (for if nothing resulted from them we should still choose each of them), but we choose them also for the sake of happiness, judging that by means of them we shall be happy. Happiness, on the other hand, no one chooses for the sake of these, nor, in general, for anything other than itself.

From the point of view of self-sufficiency the same result seems to follow; for the final good is thought to be self-sufficient. Now by self-sufficient we do not mean that which is sufficient for a man by himself, for one who lives a solitary life, but also for parents, children, wife, and in general for his friends and fellow citizens, since man is born for citizenship. But some limit must be set to this; for if we extend our requirement to ancestors and descendants and friends' friends we are in for an infinite series. Let us examine this question, however, on another occasion; the self-sufficient we now define as that which when isolated makes life desirable and lacking in nothing; and such we think happiness to be; and further we think it most desirable of all things, without being counted as one good thing among others- if it were so counted it would clearly be made more desirable by the addition of even the least of goods; for that which is added becomes an excess of goods, and of goods the greater is always more desirable. Happiness, then, is something final and self-sufficient, and is the end of action.

Presumably, however, to say that happiness is the chief good seems a platitude, and a clearer account of what it is still desired. This might perhaps be given, if we could first ascertain the function of man. For just as for a flute-player, a sculptor, or an artist, and, in general, for all things that have a function or activity, the good and the 'well' is thought to reside in the function, so would it seem to be for man, if he has a function. Have the carpenter, then, and the tanner certain functions or activities, and has man none? Is he born without a function? Or as eye, hand, foot, and in general each of the parts evidently has a function, may one lay it down that man similarly has a function apart from all these? What then can this be? Life seems to be common even to plants, but we are seeking what is peculiar to man. Let us exclude, therefore, the life of nutrition and growth. Next there would be a life of perception, but it also seems to be common even to the horse, the ox, and every animal. There remains, then, an active life of the element that has a rational principle; of this, one part has such a principle in the sense of being obedient to one, the other in the sense of possessing one and exercising thought. And, as 'life of the rational element' also has two meanings, we must state that life in the sense of activity is what we mean; for this seems to be the more proper sense of the term. Now if the function of man is an activity of soul which follows or implies a rational principle, and if we say 'so-andso-and 'a good so-and-so' have a function which is the same in kind, e.g. a lyre, and a

good lyre-player, and so without qualification in all cases, eminence in respect of goodness being added to the name of the function (for the function of a lyre-player is to play the lyre, and that of a good lyre-player is to do so well): if this is the case, and we state the function of man to be a certain kind of life, and this to be an activity or actions of the soul implying a rational principle, and the function of a good man to be the good and noble performance of these, and if any action is well performed when it is performed in accordance with the appropriate excellence: if this is the case, human good turns out to be activity of soul in accordance with virtue, and if there are more than one virtue, in accordance with the best and most complete.

But we must add 'in a complete life.' For one swallow does not make a summer, nor does one day; and so too one day, or a short time, does not make a man blessed and happy.

Let this serve as an outline of the good; for we must presumably first sketch it roughly, and then later fill in the details. But it would seem that any one is capable of carrying on and articulating what has once been well outlined, and that time is a good discoverer or partner in such a work; to which facts the advances of the arts are due; for any one can add what is lacking. And we must also remember what has been said before, and not look for precision in all things alike, but in each class of things such precision as accords with the subject-matter, and so much as is appropriate to the inquiry. For a carpenter and a geometer investigate the right angle in different ways; the former does so in so far as the right angle is useful for his work, while the latter inquires what it is or what sort of thing it is; for he is a spectator of the truth. We must act in the same way, then, in all other matters as well, that our main task may not be subordinated to minor questions. Nor must we demand the cause in all matters alike; it is enough in some cases that the fact be well established, as in the case of the first principles; the fact is the primary thing or first principle. Now of first principles we see some by induction, some by perception, some by a certain habituation, and others too in other ways. But each set of principles we must try to investigate in the natural way, and we must take pains to state them definitely, since they have a great influence on what follows. For the beginning is thought to be more than half of the whole, and many of the questions we ask are cleared up by it.

8

We must consider it, however, in the light not only of our conclusion and our premisses, but also of what is commonly said about it; for with a true view all the data harmonize, but with a false one the facts soon clash. Now goods have been divided into three classes, and some are described as external, others as relating to soul or to body; we call those that relate to soul most properly and truly goods, and psychical actions and activities we class as relating to soul. Therefore our account must be sound, at least according to this view, which is an old one and agreed on by philosophers. It is correct also in that we identify

the end with certain actions and activities; for thus it falls among goods of the soul and not among external goods. Another belief which harmonizes with our account is that the happy man lives well and does well; for we have practically defined happiness as a sort of good life and good action. The characteristics that are looked for in happiness seem also, all of them, to belong to what we have defined happiness as being. For some identify happiness with virtue, some with practical wisdom, others with a kind of philosophic wisdom, others with these, or one of these, accompanied by pleasure or not without pleasure; while others include also external prosperity. Now some of these views have been held by many men and men of old, others by a few eminent persons; and it is not probable that either of these should be entirely mistaken, but rather that they should be right in at least some one respect or even in most respects.

With those who identify happiness with virtue or some one virtue our account is in harmony; for to virtue belongs virtuous activity. But it makes, perhaps, no small difference whether we place the chief good in possession or in use, in state of mind or in activity. For the state of mind may exist without producing any good result, as in a man who is asleep or in some other way quite inactive, but the activity cannot; for one who has the activity will of necessity be acting, and acting well. And as in the Olympic Games it is not the most beautiful and the strongest that are crowned but those who compete (for it is some of these that are victorious), so those who act win, and rightly win, the noble and good things in life.

Their life is also in itself pleasant. For pleasure is a state of soul, and to each man that which he is said to be a lover of is pleasant; e.g. not only is a horse pleasant to the lover of horses, and a spectacle to the lover of sights, but also in the same way just acts are pleasant to the lover of justice and in general virtuous acts to the lover of virtue. Now for most men their pleasures are in conflict with one another because these are not by nature pleasant, but the lovers of what is noble find pleasant the things that are by nature pleasant; and virtuous actions are such, so that these are pleasant for such men as well as in their own nature. Their life, therefore, has no further need of pleasure as a sort of adventitious charm, but has its pleasure in itself. For, besides what we have said, the man who does not rejoice in noble actions is not even good; since no one would call a man just who did not enjoy acting justly, nor any man liberal who did not enjoy liberal actions; and similarly in all other cases. If this is so, virtuous actions must be in themselves pleasant. But they are also good and noble, and have each of these attributes in the highest degree, since the good man judges well about these attributes; his judgement is such as we have described. Happiness then is the best, noblest, and most pleasant thing in the world, and these attributes are not severed as in the inscription at Delos-

Most noble is that which is justest, and best is health;

But pleasantest is it to win what we love.

For all these properties belong to the best activities; and these, or one- the best- of these, we identify with happiness.

Yet evidently, as we said, it needs the external goods as well; for it is impossible, or not easy, to do noble acts without the proper equipment. In many actions we use friends and riches and political power as instruments; and there are some things the lack of which takes the lustre from happiness, as good birth, goodly children, beauty; for the man who is very ugly in appearance or ill-born or solitary and childless is not very likely to be happy, and perhaps a man would be still less likely if he had thoroughly bad children or friends or had lost good children or friends by death. As we said, then, happiness seems to need this sort of prosperity in addition; for which reason some identify happiness with good fortune, though others identify it with virtue.

9

For this reason also the question is asked, whether happiness is to be acquired by learning or by habituation or some other sort of training, or comes in virtue of some divine providence or again by chance. Now if there is any gift of the gods to men, it is reasonable that happiness should be god-given, and most surely god-given of all human things inasmuch as it is the best. But this question would perhaps be more appropriate to another inquiry; happiness seems, however, even if it is not god-sent but comes as a result of virtue and some process of learning or training, to be among the most godlike things; for that which is the prize and end of virtue seems to be the best thing in the world, and something godlike and blessed.

It will also on this view be very generally shared; for all who are not maimed as regards their potentiality for virtue may win it by a certain kind of study and care. But if it is better to be happy thus than by chance, it is reasonable that the facts should be so, since everything that depends on the action of nature is by nature as good as it can be, and similarly everything that depends on art or any rational cause, and especially if it depends on the best of all causes. To entrust to chance what is greatest and most noble would be a very defective arrangement.

The answer to the question we are asking is plain also from the definition of happiness; for it has been said to be a virtuous activity of soul, of a certain kind. Of the remaining goods, some must necessarily pre-exist as conditions of happiness, and others are naturally co-operative and useful as instruments. And this will be found to agree with what we said at the outset; for we stated the end of political science to be the best end, and political science spends most of its pains on making the citizens to be of a certain character, viz. good and capable of noble acts.

It is natural, then, that we call neither ox nor horse nor any other of the animals happy; for none of them is capable of sharing in such activity. For this reason also a boy is not happy; for he is not yet capable of such acts, owing to his age; and boys who are called happy are being congratulated by reason of the hopes we have for them. For there is required, as we said, not only complete virtue but also a complete life, since many changes occur in life, and all manner of chances, and the most prosperous may fall into great misfortunes in old age, as is told of Priam in the Trojan Cycle; and one who has experienced such chances and has ended wretchedly no one calls happy.

10

Must no one at all, then, be called happy while he lives; must we, as Solon says, see the end? Even if we are to lay down this doctrine, is it also the case that a man is happy when he is dead? Or is not this quite absurd, especially for us who say that happiness is an activity? But if we do not call the dead man happy, and if Solon does not mean this, but that one can then safely call a man blessed as being at last beyond evils and misfortunes, this also affords matter for discussion; for both evil and good are thought to exist for a dead man, as much as for one who is alive but not aware of them; e.g. honours and dishonours and the good or bad fortunes of children and in general of descendants. And this also presents a problem; for though a man has lived happily up to old age and has had a death worthy of his life, many reverses may befall his descendants- some of them may be good and attain the life they deserve, while with others the opposite may be the case; and clearly too the degrees of relationship between them and their ancestors may vary indefinitely. It would be odd, then, if the dead man were to share in these changes and become at one time happy, at another wretched; while it would also be odd if the fortunes of the descendants did not for some time have some effect on the happiness of their ancestors.

But we must return to our first difficulty; for perhaps by a consideration of it our present problem might be solved. Now if we must see the end and only then call a man happy, not as being happy but as having been so before, surely this is a paradox, that when he is happy the attribute that belongs to him is not to be truly predicated of him because we do not wish to call living men happy, on account of the changes that may befall them, and because we have assumed happiness to be something permanent and by no means easily changed, while a single man may suffer many turns of fortune's wheel. For clearly if we were to keep pace with his fortunes, we should often call the same man happy and again wretched, making the happy man out to be chameleon and insecurely based. Or is this keeping pace with his fortunes quite wrong? Success or failure in life does not depend on these, but human life, as we said, needs these as mere additions, while virtuous activities or their opposites are what constitute happiness or the reverse.

The question we have now discussed confirms our definition. For no function of man has so much permanence as virtuous activities (these are thought to be more durable even than knowledge of the sciences), and of these themselves the most valuable are more durable because those who are happy spend their life most readily and most continuously in these; for this seems to be the reason why we do not forget them. The attribute in question, then, will belong to the happy man, and he will be happy throughout his life; for always, or by preference to everything else, he will be engaged in virtuous action and contemplation, and he will bear the chances of life most nobly and altogether decorously, if he is 'truly good' and 'foursquare beyond reproach'.

Now many events happen by chance, and events differing in importance; small pieces of good fortune or of its opposite clearly do not weigh down the scales of life one way or the other, but a multitude of great events if they turn out well will make life happier (for not only are they themselves such as to add beauty to life, but the way a man deals with them may be noble and good), while if they turn out ill they crush and maim happiness; for they both bring pain with them and hinder many activities. Yet even in these nobility shines through, when a man bears with resignation many great misfortunes, not through insensibility to pain but through nobility and greatness of soul.

If activities are, as we said, what gives life its character, no happy man can become miserable; for he will never do the acts that are hateful and mean. For the man who is truly good and wise, we think, bears all the chances life becomingly and always makes the best of circumstances, as a good general makes the best military use of the army at his command and a good shoemaker makes the best shoes out of the hides that are given him; and so with all other craftsmen. And if this is the case, the happy man can never become miserable; though he will not reach blessedness, if he meet with fortunes like those of Priam.

Nor, again, is he many-coloured and changeable; for neither will he be moved from his happy state easily or by any ordinary misadventures, but only by many great ones, nor, if he has had many great misadventures, will he recover his happiness in a short time, but if at all, only in a long and complete one in which he has attained many splendid successes.

When then should we not say that he is happy who is active in accordance with complete virtue and is sufficiently equipped with external goods, not for some chance period but throughout a complete life? Or must we add 'and who is destined to live thus and die as befits his life'? Certainly the future is obscure to us, while happiness, we claim, is an end and something in every way final. If so, we shall call happy those among living men in whom these conditions are, and are to be, fulfilled- but happy men. So much for these questions.

That the fortunes of descendants and of all a man's friends should not affect his happiness at all seems a very unfriendly doctrine, and one opposed to the opinions men hold; but since the events that happen are numerous and admit of all sorts of difference, and some come more near to us and others less so, it seems a long- nay, an infinite- task to discuss each in detail; a general outline will perhaps suffice. If, then, as some of a man's own misadventures have a certain weight and influence on life while others are, as it were, lighter, so too there are differences among the misadventures of our friends taken as a whole, and it makes a difference whether the various suffering befall the living or the dead (much more even than whether lawless and terrible deeds are presupposed in a tragedy or done on the stage), this difference also must be taken into account; or rather, perhaps, the fact that doubt is felt whether the dead share in any good or evil. For it seems, from these considerations, that even if anything whether good or evil penetrates to them, it must be something weak and negligible, either in itself or for them, or if not, at least it must be such in degree and kind as not to make happy those who are not happy nor to take away their blessedness from those who are. The good or bad fortunes of friends, then, seem to have some effects on the dead, but effects of such a kind and degree as neither to make the happy unhappy nor to produce any other change of the kind.

12

These questions having been definitely answered, let us consider whether happiness is among the things that are praised or rather among the things that are prized; for clearly it is not to be placed among potentialities. Everything that is praised seems to be praised because it is of a certain kind and is related somehow to something else; for we praise the just or brave man and in general both the good man and virtue itself because of the actions and functions involved, and we praise the strong man, the good runner, and so on, because he is of a certain kind and is related in a certain way to something good and important. This is clear also from the praises of the gods; for it seems absurd that the gods should be referred to our standard, but this is done because praise involves a reference, to something else. But if if praise is for things such as we have described, clearly what applies to the best things is not praise, but something greater and better, as is indeed obvious; for what we do to the gods and the most godlike of men is to call them blessed and happy. And so too with good things; no one praises happiness as he does justice, but rather calls it blessed, as being something more divine and better.

Eudoxus also seems to have been right in his method of advocating the supremacy of pleasure; he thought that the fact that, though a good, it is not praised indicated it to be better than the things that are praised, and that this is what God and the good are; for by reference to these all other things are judged. Praise is appropriate to virtue, for as a result

of virtue men tend to do noble deeds, but encomia are bestowed on acts, whether of the body or of the soul. But perhaps nicety in these matters is more proper to those who have made a study of encomia; to us it is clear from what has been said that happiness is among the things that are prized and perfect. It seems to be so also from the fact that it is a first principle; for it is for the sake of this that we all do all that we do, and the first principle and cause of goods is, we claim, something prized and divine.

13

Since happiness is an activity of soul in accordance with perfect virtue, we must consider the nature of virtue; for perhaps we shall thus see better the nature of happiness. The true student of politics, too, is thought to have studied virtue above all things; for he wishes to make his fellow citizens good and obedient to the laws. As an example of this we have the lawgivers of the Cretans and the Spartans, and any others of the kind that there may have been. And if this inquiry belongs to political science, clearly the pursuit of it will be in accordance with our original plan. But clearly the virtue we must study is human virtue; for the good we were seeking was human good and the happiness human happiness. By human virtue we mean not that of the body but that of the soul; and happiness also we call an activity of soul. But if this is so, clearly the student of politics must know somehow the facts about soul, as the man who is to heal the eyes or the body as a whole must know about the eyes or the body; and all the more since politics is more prized and better than medicine; but even among doctors the best educated spend much labour on acquiring knowledge of the body. The student of politics, then, must study the soul, and must study it with these objects in view, and do so just to the extent which is sufficient for the questions we are discussing; for further precision is perhaps something more laborious than our purposes require.

Some things are said about it, adequately enough, even in the discussions outside our school, and we must use these; e.g. that one element in the soul is irrational and one has a rational principle. Whether these are separated as the parts of the body or of anything divisible are, or are distinct by definition but by nature inseparable, like convex and concave in the circumference of a circle, does not affect the present question.

Of the irrational element one division seems to be widely distributed, and vegetative in its nature, I mean that which causes nutrition and growth; for it is this kind of power of the soul that one must assign to all nurslings and to embryos, and this same power to fullgrown creatures; this is more reasonable than to assign some different power to them. Now the excellence of this seems to be common to all species and not specifically human; for this part or faculty seems to function most in sleep, while goodness and badness are least manifest in sleep (whence comes the saying that the happy are not better off than the wretched for half their lives; and this happens naturally enough, since sleep is an

inactivity of the soul in that respect in which it is called good or bad), unless perhaps to a small extent some of the movements actually penetrate to the soul, and in this respect the dreams of good men are better than those of ordinary people. Enough of this subject, however; let us leave the nutritive faculty alone, since it has by its nature no share in human excellence.

There seems to be also another irrational element in the soul-one which in a sense, however, shares in a rational principle. For we praise the rational principle of the continent man and of the incontinent, and the part of their soul that has such a principle, since it urges them aright and towards the best objects; but there is found in them also another element naturally opposed to the rational principle, which fights against and resists that principle. For exactly as paralysed limbs when we intend to move them to the right turn on the contrary to the left, so is it with the soul; the impulses of incontinent people move in contrary directions. But while in the body we see that which moves astray, in the soul we do not. No doubt, however, we must none the less suppose that in the soul too there is something contrary to the rational principle, resisting and opposing it. In what sense it is distinct from the other elements does not concern us. Now even this seems to have a share in a rational principle, as we said; at any rate in the continent man it obeys the rational principle and presumably in the temperate and brave man it is still more obedient; for in him it speaks, on all matters, with the same voice as the rational principle.

Therefore the irrational element also appears to be two-fold. For the vegetative element in no way shares in a rational principle, but the appetitive and in general the desiring element in a sense shares in it, in so far as it listens to and obeys it; this is the sense in which we speak of 'taking account' of one's father or one's friends, not that in which we speak of 'accounting for a mathematical property. That the irrational element is in some sense persuaded by a rational principle is indicated also by the giving of advice and by all reproof and exhortation. And if this element also must be said to have a rational principle, that which has a rational principle (as well as that which has not) will be twofold, one subdivision having it in the strict sense and in itself, and the other having a tendency to obey as one does one's father.

Virtue too is distinguished into kinds in accordance with this difference; for we say that some of the virtues are intellectual and others moral, philosophic wisdom and understanding and practical wisdom being intellectual, liberality and temperance moral. For in speaking about a man's character we do not say that he is wise or has understanding but that he is good-tempered or temperate; yet we praise the wise man also with respect to his state of mind; and of states of mind we call those which merit praise virtues.

Book 2

1

Virtue, then, being of two kinds, intellectual and moral, intellectual virtue in the main owes both its birth and its growth to teaching (for which reason it requires experience and time), while moral virtue comes about as a result of habit, whence also its name (ethike) is one that is formed by a slight variation from the word ethos (habit). From this it is also plain that none of the moral virtues arises in us by nature; for nothing that exists by nature can form a habit contrary to its nature. For instance the stone which by nature moves downwards cannot be habituated to move upwards, not even if one tries to train it by throwing it up ten thousand times; nor can fire be habituated to move downwards, nor can anything else that by nature behaves in one way be trained to behave in another. Neither by nature, then, nor contrary to nature do the virtues arise in us; rather we are adapted by nature to receive them, and are made perfect by habit.

Again, of all the things that come to us by nature we first acquire the potentiality and later exhibit the activity (this is plain in the case of the senses; for it was not by often seeing or often hearing that we got these senses, but on the contrary we had them before we used them, and did not come to have them by using them); but the virtues we get by first exercising them, as also happens in the case of the arts as well. For the things we have to learn before we can do them, we learn by doing them, e.g. men become builders by building and lyre players by playing the lyre; so too we become just by doing just acts, temperate by doing temperate acts, brave by doing brave acts.

This is confirmed by what happens in states; for legislators make the citizens good by forming habits in them, and this is the wish of every legislator, and those who do not effect it miss their mark, and it is in this that a good constitution differs from a bad one.

Again, it is from the same causes and by the same means that every virtue is both produced and destroyed, and similarly every art; for it is from playing the lyre that both good and bad lyre-players are produced. And the corresponding statement is true of builders and of all the rest; men will be good or bad builders as a result of building well or badly. For if this were not so, there would have been no need of a teacher, but all men would have been born good or bad at their craft. This, then, is the case with the virtues also; by doing the acts that we do in our transactions with other men we become just or unjust, and by doing the acts that we do in the presence of danger, and being habituated to feel fear or confidence, we become brave or cowardly. The same is true of appetites and feelings of anger; some men become temperate and good-tempered, others self-indulgent and irascible, by behaving in one way or the other in the appropriate circumstances. Thus, in one word, states of character arise out of like activities. This is why the activities we exhibit must be of a certain kind; it is because the states of character correspond to the

differences between these. It makes no small difference, then, whether we form habits of one kind or of another from our very youth; it makes a very great difference, or rather all the difference.

2

Since, then, the present inquiry does not aim at theoretical knowledge like the others (for we are inquiring not in order to know what virtue is, but in order to become good, since otherwise our inquiry would have been of no use), we must examine the nature of actions, namely how we ought to do them; for these determine also the nature of the states of character that are produced, as we have said. Now, that we must act according to the right rule is a common principle and must be assumed-it will be discussed later, i.e. both what the right rule is, and how it is related to the other virtues. But this must be agreed upon beforehand, that the whole account of matters of conduct must be given in outline and not precisely, as we said at the very beginning that the accounts we demand must be in accordance with the subject-matter; matters concerned with conduct and questions of what is good for us have no fixity, any more than matters of health. The general account being of this nature, the account of particular cases is yet more lacking in exactness; for they do not fall under any art or precept but the agents themselves must in each case consider what is appropriate to the occasion, as happens also in the art of medicine or of navigation.

But though our present account is of this nature we must give what help we can. First, then, let us consider this, that it is the nature of such things to be destroyed by defect and excess, as we see in the case of strength and of health (for to gain light on things imperceptible we must use the evidence of sensible things); both excessive and defective exercise destroys the strength, and similarly drink or food which is above or below a certain amount destroys the health, while that which is proportionate both produces and increases and preserves it. So too is it, then, in the case of temperance and courage and the other virtues. For the man who flies from and fears everything and does not stand his ground against anything becomes a coward, and the man who fears nothing at all but goes to meet every danger becomes rash; and similarly the man who indulges in every pleasure and abstains from none becomes self-indulgent, while the man who shuns every pleasure, as boors do, becomes in a way insensible; temperance and courage, then, are destroyed by excess and defect, and preserved by the mean.

But not only are the sources and causes of their origination and growth the same as those of their destruction, but also the sphere of their actualization will be the same; for this is also true of the things which are more evident to sense, e.g. of strength; it is produced by taking much food and undergoing much exertion, and it is the strong man that will be most able to do these things. So too is it with the virtues; by abstaining from pleasures we

become temperate, and it is when we have become so that we are most able to abstain from them; and similarly too in the case of courage; for by being habituated to despise things that are terrible and to stand our ground against them we become brave, and it is when we have become so that we shall be most able to stand our ground against them.

3

We must take as a sign of states of character the pleasure or pain that ensues on acts; for the man who abstains from bodily pleasures and delights in this very fact is temperate, while the man who is annoyed at it is self-indulgent, and he who stands his ground against things that are terrible and delights in this or at least is not pained is brave, while the man who is pained is a coward. For moral excellence is concerned with pleasures and pains; it is on account of the pleasure that we do bad things, and on account of the pain that we abstain from noble ones. Hence we ought to have been brought up in a particular way from our very youth, as Plato says, so as both to delight in and to be pained by the things that we ought; for this is the right education.

Again, if the virtues are concerned with actions and passions, and every passion and every action is accompanied by pleasure and pain, for this reason also virtue will be concerned with pleasures and pains. This is indicated also by the fact that punishment is inflicted by these means; for it is a kind of cure, and it is the nature of cures to be effected by contraries.

Again, as we said but lately, every state of soul has a nature relative to and concerned with the kind of things by which it tends to be made worse or better; but it is by reason of pleasures and pains that men become bad, by pursuing and avoiding these- either the pleasures and pains they ought not or when they ought not or as they ought not, or by going wrong in one of the other similar ways that may be distinguished. Hence men even define the virtues as certain states of impassivity and rest; not well, however, because they speak absolutely, and do not say 'as one ought' and 'as one ought not' and 'when one ought or ought not', and the other things that may be added. We assume, then, that this kind of excellence tends to do what is best with regard to pleasures and pains, and vice does the contrary.

The following facts also may show us that virtue and vice are concerned with these same things. There being three objects of choice and three of avoidance, the noble, the advantageous, the pleasant, and their contraries, the base, the injurious, the painful, about all of these the good man tends to go right and the bad man to go wrong, and especially about pleasure; for this is common to the animals, and also it accompanies all objects of choice; for even the noble and the advantageous appear pleasant.

Again, it has grown up with us all from our infancy; this is why it is difficult to rub off this passion, engrained as it is in our life. And we measure even our actions, some of us more and others less, by the rule of pleasure and pain. For this reason, then, our whole inquiry must be about these; for to feel delight and pain rightly or wrongly has no small effect on our actions.

Again, it is harder to fight with pleasure than with anger, to use Heraclitus' phrase', but both art and virtue are always concerned with what is harder; for even the good is better when it is harder. Therefore for this reason also the whole concern both of virtue and of political science is with pleasures and pains; for the man who uses these well will be good, he who uses them badly bad.

That virtue, then, is concerned with pleasures and pains, and that by the acts from which it arises it is both increased and, if they are done differently, destroyed, and that the acts from which it arose are those in which it actualizes itself- let this be taken as said.

4

The question might be asked,; what we mean by saying that we must become just by doing just acts, and temperate by doing temperate acts; for if men do just and temperate acts, they are already just and temperate, exactly as, if they do what is in accordance with the laws of grammar and of music, they are grammarians and musicians.

Or is this not true even of the arts? It is possible to do something that is in accordance with the laws of grammar, either by chance or at the suggestion of another. A man will be a grammarian, then, only when he has both done something grammatical and done it grammatically; and this means doing it in accordance with the grammatical knowledge in himself.

Again, the case of the arts and that of the virtues are not similar; for the products of the arts have their goodness in themselves, so that it is enough that they should have a certain character, but if the acts that are in accordance with the virtues have themselves a certain character it does not follow that they are done justly or temperately. The agent also must be in a certain condition when he does them; in the first place he must have knowledge, secondly he must choose the acts, and choose them for their own sakes, and thirdly his action must proceed from a firm and unchangeable character. These are not reckoned in as conditions of the possession of the arts, except the bare knowledge; but as a condition of the possession of the virtues knowledge has little or no weight, while the other conditions count not for a little but for everything, i.e. the very conditions which result from often doing just and temperate acts.

Actions, then, are called just and temperate when they are such as the just or the temperate man would do; but it is not the man who does these that is just and temperate, but the man who also does them as just and temperate men do them. It is well said, then, that it is by doing just acts that the just man is produced, and by doing temperate acts the temperate man; without doing these no one would have even a prospect of becoming good.

But most people do not do these, but take refuge in theory and think they are being philosophers and will become good in this way, behaving somewhat like patients who listen attentively to their doctors, but do none of the things they are ordered to do. As the latter will not be made well in body by such a course of treatment, the former will not be made well in soul by such a course of philosophy.

5

Next we must consider what virtue is. Since things that are found in the soul are of three kinds- passions, faculties, states of character, virtue must be one of these. By passions I mean appetite, anger, fear, confidence, envy, joy, friendly feeling, hatred, longing, emulation, pity, and in general the feelings that are accompanied by pleasure or pain; by faculties the things in virtue of which we are said to be capable of feeling these, e.g. of becoming angry or being pained or feeling pity; by states of character the things in virtue of which we stand well or badly with reference to the passions, e.g. with reference to anger we stand badly if we feel it violently or too weakly, and well if we feel it moderately; and similarly with reference to the other passions.

Now neither the virtues nor the vices are passions, because we are not called good or bad on the ground of our passions, but are so called on the ground of our virtues and our vices, and because we are neither praised nor blamed for our passions (for the man who feels fear or anger is not praised, nor is the man who simply feels anger blamed, but the man who feels it in a certain way), but for our virtues and our vices we are praised or blamed.

Again, we feel anger and fear without choice, but the virtues are modes of choice or involve choice. Further, in respect of the passions we are said to be moved, but in respect of the virtues and the vices we are said not to be moved but to be disposed in a particular way.

For these reasons also they are not faculties; for we are neither called good nor bad, nor praised nor blamed, for the simple capacity of feeling the passions; again, we have the faculties by nature, but we are not made good or bad by nature; we have spoken of this before. If, then, the virtues are neither passions nor faculties, all that remains is that they should be states of character.

Thus we have stated what virtue is in respect of its genus.

6

We must, however, not only describe virtue as a state of character, but also say what sort of state it is. We may remark, then, that every virtue or excellence both brings into good condition the thing of which it is the excellence and makes the work of that thing be done well; e.g. the excellence of the eye makes both the eye and its work good; for it is by the excellence of the eye that we see well. Similarly the excellence of the horse makes a horse both good in itself and good at running and at carrying its rider and at awaiting the attack of the enemy. Therefore, if this is true in every case, the virtue of man also will be the state of character which makes a man good and which makes him do his own work well.

How this is to happen we have stated already, but it will be made plain also by the following consideration of the specific nature of virtue. In everything that is continuous and divisible it is possible to take more, less, or an equal amount, and that either in terms of the thing itself or relatively to us; and the equal is an intermediate between excess and defect. By the intermediate in the object I mean that which is equidistant from each of the extremes, which is one and the same for all men; by the intermediate relatively to us that which is neither too much nor too little- and this is not one, nor the same for all. For instance, if ten is many and two is few, six is the intermediate, taken in terms of the object; for it exceeds and is exceeded by an equal amount; this is intermediate according to arithmetical proportion. But the intermediate relatively to us is not to be taken so; if ten pounds are too much for a particular person to eat and two too little, it does not follow that the trainer will order six pounds; for this also is perhaps too much for the person who is to take it, or too little- too little for Milo, too much for the beginner in athletic exercises. The same is true of running and wrestling. Thus a master of any art avoids excess and defect, but seeks the intermediate and chooses this- the intermediate not in the object but relatively to us.

If it is thus, then, that every art does its work well- by looking to the intermediate and judging its works by this standard (so that we often say of good works of art that it is not possible either to take away or to add anything, implying that excess and defect destroy the goodness of works of art, while the mean preserves it; and good artists, as we say, look to this in their work), and if, further, virtue is more exact and better than any art, as nature also is, then virtue must have the quality of aiming at the intermediate. I mean moral virtue; for it is this that is concerned with passions and actions, and in these there is excess, defect, and the intermediate. For instance, both fear and confidence and appetite and anger and pity and in general pleasure and pain may be felt both too much and too little, and in both cases not well; but to feel them at the right times, with reference to the

right objects, towards the right people, with the right motive, and in the right way, is what is both intermediate and best, and this is characteristic of virtue. Similarly with regard to actions also there is excess, defect, and the intermediate. Now virtue is concerned with passions and actions, in which excess is a form of failure, and so is defect, while the intermediate is praised and is a form of success; and being praised and being successful are both characteristics of virtue. Therefore virtue is a kind of mean, since, as we have seen, it aims at what is intermediate.

Again, it is possible to fail in many ways (for evil belongs to the class of the unlimited, as the Pythagoreans conjectured, and good to that of the limited), while to succeed is possible only in one way (for which reason also one is easy and the other difficult- to miss the mark easy, to hit it difficult); for these reasons also, then, excess and defect are characteristic of vice, and the mean of virtue;

For men are good in but one way, but bad in many.

Virtue, then, is a state of character concerned with choice, lying in a mean, i.e. the mean relative to us, this being determined by a rational principle, and by that principle by which the man of practical wisdom would determine it. Now it is a mean between two vices, that which depends on excess and that which depends on defect; and again it is a mean because the vices respectively fall short of or exceed what is right in both passions and actions, while virtue both finds and chooses that which is intermediate. Hence in respect of its substance and the definition which states its essence virtue is a mean, with regard to what is best and right an extreme.

But not every action nor every passion admits of a mean; for some have names that already imply badness, e.g. spite, shamelessness, envy, and in the case of actions adultery, theft, murder; for all of these and suchlike things imply by their names that they are themselves bad, and not the excesses or deficiencies of them. It is not possible, then, ever to be right with regard to them; one must always be wrong. Nor does goodness or badness with regard to such things depend on committing adultery with the right woman, at the right time, and in the right way, but simply to do any of them is to go wrong. It would be equally absurd, then, to expect that in unjust, cowardly, and voluptuous action there should be a mean, an excess, and a deficiency; for at that rate there would be a mean of excess and of deficiency of temperance and courage because what is intermediate is in a sense an extreme, so too of the actions we have mentioned there is no mean nor any excess and deficiency, but however they are done they are wrong; for in general there is neither a mean of excess and deficiency, nor excess and deficiency of a mean.

7

We must, however, not only make this general statement, but also apply it to the individual facts. For among statements about conduct those which are general apply more widely, but those which are particular are more genuine, since conduct has to do with individual cases, and our statements must harmonize with the facts in these cases. We may take these cases from our table. With regard to feelings of fear and confidence courage is the mean; of the people who exceed, he who exceeds in fearlessness has no name (many of the states have no name), while the man who exceeds in confidence is rash, and he who exceeds in fear and falls short in confidence is a coward. With regard to pleasures and pains- not all of them, and not so much with regard to the pains- the mean is temperance, the excess self-indulgence. Persons deficient with regard to the pleasures are not often found; hence such persons also have received no name. But let us call them 'insensible'.

With regard to giving and taking of money the mean is liberality, the excess and the defect prodigality and meanness. In these actions people exceed and fall short in contrary ways; the prodigal exceeds in spending and falls short in taking, while the mean man exceeds in taking and falls short in spending. (At present we are giving a mere outline or summary, and are satisfied with this; later these states will be more exactly determined.) With regard to money there are also other dispositions- a mean, magnificence (for the magnificent man differs from the liberal man; the former deals with large sums, the latter with small ones), an excess, tastelessness and vulgarity, and a deficiency, niggardliness; these differ from the states opposed to liberality, and the mode of their difference will be stated later. With regard to honour and dishonour the mean is proper pride, the excess is known as a sort of 'empty vanity', and the deficiency is undue humility; and as we said liberality was related to magnificence, differing from it by dealing with small sums, so there is a state similarly related to proper pride, being concerned with small honours while that is concerned with great. For it is possible to desire honour as one ought, and more than one ought, and less, and the man who exceeds in his desires is called ambitious, the man who falls short unambitious, while the intermediate person has no name. The dispositions also are nameless, except that that of the ambitious man is called ambition. Hence the people who are at the extremes lay claim to the middle place; and we ourselves sometimes call the intermediate person ambitious and sometimes unambitious, and sometimes praise the ambitious man and sometimes the unambitious. The reason of our doing this will be stated in what follows; but now let us speak of the remaining states according to the method which has been indicated.

With regard to anger also there is an excess, a deficiency, and a mean. Although they can scarcely be said to have names, yet since we call the intermediate person good-tempered let us call the mean good temper; of the persons at the extremes let the one who exceeds be called irascible, and his vice irascibility, and the man who falls short an inirascible sort of person, and the deficiency inirascibility.

There are also three other means, which have a certain likeness to one another, but differ from one another: for they are all concerned with intercourse in words and actions, but differ in that one is concerned with truth in this sphere, the other two with pleasantness; and of this one kind is exhibited in giving amusement, the other in all the circumstances of life. We must therefore speak of these too, that we may the better see that in all things the mean is praise-worthy, and the extremes neither praiseworthy nor right, but worthy of blame. Now most of these states also have no names, but we must try, as in the other cases, to invent names ourselves so that we may be clear and easy to follow. With regard to truth, then, the intermediate is a truthful sort of person and the mean may be called truthfulness, while the pretence which exaggerates is boastfulness and the person characterized by it a boaster, and that which understates is mock modesty and the person characterized by it mock-modest. With regard to pleasantness in the giving of amusement the intermediate person is ready-witted and the disposition ready wit, the excess is buffoonery and the person characterized by it a buffoon, while the man who falls short is a sort of boor and his state is boorishness. With regard to the remaining kind of pleasantness, that which is exhibited in life in general, the man who is pleasant in the right way is friendly and the mean is friendliness, while the man who exceeds is an obsequious person if he has no end in view, a flatterer if he is aiming at his own advantage, and the man who falls short and is unpleasant in all circumstances is a quarrelsome and surly sort of person.

There are also means in the passions and concerned with the passions; since shame is not a virtue, and yet praise is extended to the modest man. For even in these matters one man is said to be intermediate, and another to exceed, as for instance the bashful man who is ashamed of everything; while he who falls short or is not ashamed of anything at all is shameless, and the intermediate person is modest. Righteous indignation is a mean between envy and spite, and these states are concerned with the pain and pleasure that are felt at the fortunes of our neighbours; the man who is characterized by righteous indignation is pained at undeserved good fortune, the envious man, going beyond him, is pained at all good fortune, and the spiteful man falls so far short of being pained that he even rejoices. But these states there will be an opportunity of describing elsewhere; with regard to justice, since it has not one simple meaning, we shall, after describing the other states, distinguish its two kinds and say how each of them is a mean; and similarly we shall treat also of the rational virtues.

8

There are three kinds of disposition, then, two of them vices, involving excess and deficiency respectively, and one a virtue, viz. the mean, and all are in a sense opposed to all; for the extreme states are contrary both to the intermediate state and to each other,

and the intermediate to the extremes; as the equal is greater relatively to the less, less relatively to the greater, so the middle states are excessive relatively to the deficiencies, deficient relatively to the excesses, both in passions and in actions. For the brave man appears rash relatively to the coward, and cowardly relatively to the rash man; and similarly the temperate man appears self-indulgent relatively to the insensible man, insensible relatively to the self-indulgent, and the liberal man prodigal relatively to the mean man, mean relatively to the prodigal. Hence also the people at the extremes push the intermediate man each over to the other, and the brave man is called rash by the coward, cowardly by the rash man, and correspondingly in the other cases.

These states being thus opposed to one another, the greatest contrariety is that of the extremes to each other, rather than to the intermediate; for these are further from each other than from the intermediate, as the great is further from the small and the small from the great than both are from the equal. Again, to the intermediate some extremes show a certain likeness, as that of rashness to courage and that of prodigality to liberality; but the extremes show the greatest unlikeness to each other; now contraries are defined as the things that are furthest from each other, so that things that are further apart are more contrary.

To the mean in some cases the deficiency, in some the excess is more opposed; e.g. it is not rashness, which is an excess, but cowardice, which is a deficiency, that is more opposed to courage, and not insensibility, which is a deficiency, but self-indulgence, which is an excess, that is more opposed to temperance. This happens from two reasons, one being drawn from the thing itself; for because one extreme is nearer and liker to the intermediate, we oppose not this but rather its contrary to the intermediate. E.g. since rashness is thought liker and nearer to courage, and cowardice more unlike, we oppose rather the latter to courage; for things that are further from the intermediate are thought more contrary to it. This, then, is one cause, drawn from the thing itself; another is drawn from ourselves; for the things to which we ourselves more naturally tend seem more contrary to the intermediate. For instance, we ourselves tend more naturally to pleasures, and hence are more easily carried away towards self-indulgence than towards propriety. We describe as contrary to the mean, then, rather the directions in which we more often go to great lengths; and therefore self-indulgence, which is an excess, is the more contrary to temperance.

9

That moral virtue is a mean, then, and in what sense it is so, and that it is a mean between two vices, the one involving excess, the other deficiency, and that it is such because its character is to aim at what is intermediate in passions and in actions, has been sufficiently stated. Hence also it is no easy task to be good. For in everything it is no easy task to find

the middle, e.g. to find the middle of a circle is not for every one but for him who knows; so, too, any one can get angry- that is easy- or give or spend money; but to do this to the right person, to the right extent, at the right time, with the right motive, and in the right way, that is not for every one, nor is it easy; wherefore goodness is both rare and laudable and noble.

Hence he who aims at the intermediate must first depart from what is the more contrary to it, as Calypso advises-

Hold the ship out beyond that surf and spray.

For of the extremes one is more erroneous, one less so; therefore, since to hit the mean is hard in the extreme, we must as a second best, as people say, take the least of the evils; and this will be done best in the way we describe. But we must consider the things towards which we ourselves also are easily carried away; for some of us tend to one thing, some to another; and this will be recognizable from the pleasure and the pain we feel. We must drag ourselves away to the contrary extreme; for we shall get into the intermediate state by drawing well away from error, as people do in straightening sticks that are bent.

Now in everything the pleasant or pleasure is most to be guarded against; for we do not judge it impartially. We ought, then, to feel towards pleasure as the elders of the people felt towards Helen, and in all circumstances repeat their saying; for if we dismiss pleasure thus we are less likely to go astray. It is by doing this, then, (to sum the matter up) that we shall best be able to hit the mean.

But this is no doubt difficult, and especially in individual cases; for or is not easy to determine both how and with whom and on what provocation and how long one should be angry; for we too sometimes praise those who fall short and call them good-tempered, but sometimes we praise those who get angry and call them manly. The man, however, who deviates little from goodness is not blamed, whether he do so in the direction of the more or of the less, but only the man who deviates more widely; for he does not fail to be noticed. But up to what point and to what extent a man must deviate before he becomes blameworthy it is not easy to determine by reasoning, any more than anything else that is perceived by the senses; such things depend on particular facts, and the decision rests with perception. So much, then, is plain, that the intermediate state is in all things to be praised, but that we must incline sometimes towards the excess, sometimes towards the deficiency; for so shall we most easily hit the mean and what is right.

Summa Theologica

by Thomas Aquinas

First Part

Treatise on Sacred Doctrine (Question 1)

The nature and extent of sacred doctrine (Articles 1-10)

Article 1: Whether, besigeds philosophy, any further doctrine is required?

Objection 1: It seems that, besides philosophical science, we have no need of any further knowledge. For man should not seek to know what is above reason: "Seek not the things that are too high for thee" (Ecclus. 3:22). But whatever is not above reason is fully treated of in philosophical science. Therefore any other knowledge besides philosophical science is superfluous.

Objection 2: Further, knowledge can be concerned only with being, for nothing can be known, save what is true; and all that is, is true. But everything that is, is treated of in philosophical science—even God Himself; so that there is a part of philosophy called theology, or the divine science, as Aristotle has proved (Metaph. vi). Therefore, besides philosophical science, there is no need of any further knowledge.

On the contrary, It is written (2 Tim. 3:16): "All Scripture, inspired of God is profitable to teach, to reprove, to correct, to instruct in justice." Now Scripture, inspired of God, is no part of philosophical science, which has been built up by human reason. Therefore it is useful that besides philosophical science, there should be other knowledge, i.e. inspired of God.

I answer that, It was necessary for man's salvation that there should be a knowledge revealed by God besides philosophical science built up by human reason. Firstly, indeed, because man is directed to God, as to an end that surpasses the grasp of his reason: "The eye hath not seen, O God, besides Thee, what things Thou hast prepared for them that wait for Thee" (Is. 66:4). But the end must first be known by men who are to direct their thoughts and actions to the end. Hence it was necessary for the salvation of man that certain truths which exceed human reason should be made known to him by divine

revelation. Even as regards those truths about God which human reason could have discovered, it was necessary that man should be taught by a divine revelation; because the truth about God such as reason could discover, would only be known by a few, and that after a long time, and with the admixture of many errors. Whereas man's whole salvation, which is in God, depends upon the knowledge of this truth. Therefore, in order that the salvation of men might be brought about more fitly and more surely, it was necessary that they should be taught divine truths by divine revelation. It was therefore necessary that besides philosophical science built up by reason, there should be a sacred science learned through revelation.

Reply to Objection 1: Although those things which are beyond man's knowledge may not be sought for by man through his reason, nevertheless, once they are revealed by God, they must be accepted by faith. Hence the sacred text continues, "For many things are shown to thee above the understanding of man" (Ecclus. 3:25). And in this, the sacred science consists.

Reply to Objection 2: Sciences are differentiated according to the various means through which knowledge is obtained. For the astronomer and the physicist both may prove the same conclusion: that the earth, for instance, is round: the astronomer by means of mathematics (i.e. abstracting from matter), but the physicist by means of matter itself. Hence there is no reason why those things which may be learned from philosophical science, so far as they can be known by natural reason, may not also be taught us by another science so far as they fall within revelation. Hence theology included in sacred doctrine differs in kind from that theology which is part of philosophy.

Article 2: Whether sacred doctrine is a science?

Objection 1: It seems that sacred doctrine is not a science. For every science proceeds from self-evident principles. But sacred doctrine proceeds from articles of faith which are not self-evident, since their truth is not admitted by all: "For all men have not faith" (2 Thess. 3:2). Therefore sacred doctrine is not a science.

Objection 2: Further, no science deals with individual facts. But this sacred science treats of individual facts, such as the deeds of Abraham, Isaac and Jacob and such like. Therefore sacred doctrine is not a science.

I answer that, Sacred doctrine is a science. We must bear in mind that there are two kinds of sciences. There are some which proceed from a principle known by the natural light of intelligence, such as arithmetic and geometry and the like. There are some which proceed from principles known by the light of a higher science: thus the science of perspective proceeds from principles established by geometry, and music from principles established

by arithmetic. So it is that sacred doctrine is a science because it proceeds from principles established by the light of a higher science, namely, the science of God and the blessed. Hence, just as the musician accepts on authority the principles taught him by the mathematician, so sacred science is established on principles revealed by God.

Reply to Objection 1: The principles of any science are either in themselves self-evident, or reducible to the conclusions of a higher science; and such, as we have said, are the principles of sacred doctrine.

Reply to Objection 2: Individual facts are treated of in sacred doctrine, not because it is concerned with them principally, but they are introduced rather both as examples to be followed in our lives (as in moral sciences) and in order to establish the authority of those men through whom the divine revelation, on which this sacred scripture or doctrine is based, has come down to us.

. . .

Article 10: Whether in Holy Scripture a word may have several senses?

Objection 1: It seems that in Holy Writ a word cannot have several senses, historical or literal, allegorical, tropological or moral, and anagogical. For many different senses in one text produce confusion and deception and destroy all force of argument. Hence no argument, but only fallacies, can be deduced from a multiplicity of propositions. But Holy Writ ought to be able to state the truth without any fallacy. Therefore in it there cannot be several senses to a word.

Objection 2: Further, Augustine says (De util. cred. iii) that "the Old Testament has a fourfold division as to history, etiology, analogy and allegory." Now these four seem altogether different from the four divisions mentioned in the first objection. Therefore it does not seem fitting to explain the same word of Holy Writ according to the four different senses mentioned above.

Objection 3: Further, besides these senses, there is the parabolical, which is not one of these four.

On the contrary, Gregory says (Moral. xx, 1): "Holy Writ by the manner of its speech transcends every science, because in one and the same sentence, while it describes a fact, it reveals a mystery."

I answer that, The author of Holy Writ is God, in whose power it is to signify His meaning, not by words only (as man also can do), but also by things themselves. So, whereas in every other science things are signified by words, this science has the property, that the things signified by the words have themselves also a signification. Therefore that

first signification whereby words signify things belongs to the first sense, the historical or literal. That signification whereby things signified by words have themselves also a signification is called the spiritual sense, which is based on the literal, and presupposes it. Now this spiritual sense has a threefold division. For as the Apostle says (Heb. 10:1) the Old Law is a figure of the New Law, and Dionysius says (Coel. Hier. i) "the New Law itself is a figure of future glory." Again, in the New Law, whatever our Head has done is a type of what we ought to do. Therefore, so far as the things of the Old Law signify the things of the New Law, there is the allegorical sense; so far as the things done in Christ, or so far as the things which signify Christ, are types of what we ought to do, there is the moral sense. But so far as they signify what relates to eternal glory, there is the anagogical sense. Since the literal sense is that which the author intends, and since the author of Holy Writ is God, Who by one act comprehends all things by His intellect, it is not unfitting, as Augustine says (Confess. xii), if, even according to the literal sense, one word in Holy Writ should have several senses.

Reply to Objection 1: The multiplicity of these senses does not produce equivocation or any other kind of multiplicity, seeing that these senses are not multiplied because one word signifies several things, but because the things signified by the words can be themselves types of other things. Thus in Holy Writ no confusion results, for all the senses are founded on one—the literal—from which alone can any argument be drawn, and not from those intended in allegory, as Augustine says (Epis. 48). Nevertheless, nothing of Holy Scripture perishes on account of this, since nothing necessary to faith is contained under the spiritual sense which is not elsewhere put forward by the Scripture in its literal sense.

Reply to Objection 2: These three—history, etiology, analogy—are grouped under the literal sense. For it is called history, as Augustine expounds (Epis. 48), whenever anything is simply related; it is called etiology when its cause is assigned, as when Our Lord gave the reason why Moses allowed the putting away of wives—namely, on account of the hardness of men's hearts; it is called analogy whenever the truth of one text of Scripture is shown not to contradict the truth of another. Of these four, allegory alone stands for the three spiritual senses. Thus Hugh of St. Victor (Sacram. iv, 4 Prolog.) includes the anagogical under the allegorical sense, laying down three senses only—the historical, the allegorical, and the tropological.

Reply to Objection 3: The parabolical sense is contained in the literal, for by words things are signified properly and figuratively. Nor is the figure itself, but that which is figured, the literal sense. When Scripture speaks of God's arm, the literal sense is not that God has such a member, but only what is signified by this member, namely operative power. Hence it is plain that nothing false can ever underlie the literal sense of Holy Writ.

Treatise on the One God (Question 2)

The existence of God (Articles 1-3)

Article 1: Whether the existence of God is self-evident?

Objection 1: It seems that the existence of God is self-evident. Now those things are said to be self-evident to us the knowledge of which is naturally implanted in us, as we can see in regard to first principles. But as Damascene says (De Fide Orth. i, 1,3), "the knowledge of God is naturally implanted in all." Therefore the existence of God is self-evident.

Objection 2: Further, those things are said to be self-evident which are known as soon as the terms are known, which the Philosopher (1 Poster. iii) says is true of the first principles of demonstration. Thus, when the nature of a whole and of a part is known, it is at once recognized that every whole is greater than its part. But as soon as the signification of the word "God" is understood, it is at once seen that God exists. For by this word is signified that thing than which nothing greater can be conceived. But that which exists actually and mentally is greater than that which exists only mentally. Therefore, since as soon as the word "God" is understood it exists mentally, it also follows that it exists actually. Therefore the proposition "God exists" is self-evident.

Objection 3: Further, the existence of truth is self-evident. For whoever denies the existence of truth grants that truth does not exist: and, if truth does not exist, then the proposition "Truth does not exist" is true: and if there is anything true, there must be truth. But God is truth itself: "I am the way, the truth, and the life" (Jn. 14:6) Therefore "God exists" is self-evident.

On the contrary, No one can mentally admit the opposite of what is self-evident; as the Philosopher (Metaph. iv, lect. vi) states concerning the first principles of demonstration. But the opposite of the proposition "God is" can be mentally admitted: "The fool said in his heart, There is no God" (Ps. 52:1). Therefore, that God exists is not self-evident.

I answer that, A thing can be self-evident in either of two ways: on the one hand, self-evident in itself, though not to us; on the other, self-evident in itself, and to us. A proposition is self-evident because the predicate is included in the essence of the subject, as "Man is an animal," for animal is contained in the essence of man. If, therefore the essence of the predicate and subject be known to all, the proposition will be self-evident to all; as is clear with regard to the first principles of demonstration, the terms of which are common things that no one is ignorant of, such as being and non-being, whole and part, and such like. If, however, there are some to whom the essence of the predicate and subject is unknown, the proposition will be self-evident in itself, but not to those who do not know the meaning of the predicate and subject of the proposition. Therefore, it

happens, as Boethius says (Hebdom., the title of which is: "Whether all that is, is good"), "that there are some mental concepts self-evident only to the learned, as that incorporeal substances are not in space." Therefore I say that this proposition, "God exists," of itself is self-evident, for the predicate is the same as the subject, because God is His own existence as will be hereafter shown (Question [3], Article [4]). Now because we do not know the essence of God, the proposition is not self-evident to us; but needs to be demonstrated by things that are more known to us, though less known in their nature—namely, by effects.

Reply to Objection 1: To know that God exists in a general and confused way is implanted in us by nature, inasmuch as God is man's beatitude. For man naturally desires happiness, and what is naturally desired by man must be naturally known to him. This, however, is not to know absolutely that God exists; just as to know that someone is approaching is not the same as to know that Peter is approaching, even though it is Peter who is approaching; for many there are who imagine that man's perfect good which is happiness, consists in riches, and others in pleasures, and others in something else.

Reply to Objection 2: Perhaps not everyone who hears this word "God" understands it to signify something than which nothing greater can be thought, seeing that some have believed God to be a body. Yet, granted that everyone understands that by this word "God" is signified something than which nothing greater can be thought, nevertheless, it does not therefore follow that he understands that what the word signifies exists actually, but only that it exists mentally. Nor can it be argued that it actually exists, unless it be admitted that there actually exists something than which nothing greater can be thought; and this precisely is not admitted by those who hold that God does not exist.

Reply to Objection 3: The existence of truth in general is self-evident but the existence of a Primal Truth is not self-evident to us.

Article 2: Whether it can be demonstrated that God exists?

Objection 1: It seems that the existence of God cannot be demonstrated. For it is an article of faith that God exists. But what is of faith cannot be demonstrated, because a demonstration produces scientific knowledge; whereas faith is of the unseen (Heb. 11:1). Therefore it cannot be demonstrated that God exists.

Objection 2: Further, the essence is the middle term of demonstration. But we cannot know in what God's essence consists, but solely in what it does not consist; as Damascene says (De Fide Orth. i, 4). Therefore we cannot demonstrate that God exists.

Objection 3: Further, if the existence of God were demonstrated, this could only be from His effects. But His effects are not proportionate to Him, since He is infinite and His

effects are finite; and between the finite and infinite there is no proportion. Therefore, since a cause cannot be demonstrated by an effect not proportionate to it, it seems that the existence of God cannot be demonstrated.

On the contrary, The Apostle says: "The invisible things of Him are clearly seen, being understood by the things that are made" (Rm. 1:20). But this would not be unless the existence of God could be demonstrated through the things that are made; for the first thing we must know of anything is whether it exists.

I answer that, Demonstration can be made in two ways: One is through the cause, and is called "a priori," and this is to argue from what is prior absolutely. The other is through the effect, and is called a demonstration "a posteriori"; this is to argue from what is prior relatively only to us. When an effect is better known to us than its cause, from the effect we proceed to the knowledge of the cause. And from every effect the existence of its proper cause can be demonstrated, so long as its effects are better known to us; because since every effect depends upon its cause, if the effect exists, the cause must pre-exist. Hence the existence of God, in so far as it is not self-evident to us, can be demonstrated from those of His effects which are known to us.

Reply to Objection 1: The existence of God and other like truths about God, which can be known by natural reason, are not articles of faith, but are preambles to the articles; for faith presupposes natural knowledge, even as grace presupposes nature, and perfection supposes something that can be perfected. Nevertheless, there is nothing to prevent a man, who cannot grasp a proof, accepting, as a matter of faith, something which in itself is capable of being scientifically known and demonstrated.

Reply to Objection 2: When the existence of a cause is demonstrated from an effect, this effect takes the place of the definition of the cause in proof of the cause's existence. This is especially the case in regard to God, because, in order to prove the existence of anything, it is necessary to accept as a middle term the meaning of the word, and not its essence, for the question of its essence follows on the question of its existence. Now the names given to God are derived from His effects; consequently, in demonstrating the existence of God from His effects, we may take for the middle term the meaning of the word "God".

Reply to Objection 3: From effects not proportionate to the cause no perfect knowledge of that cause can be obtained. Yet from every effect the existence of the cause can be clearly demonstrated, and so we can demonstrate the existence of God from His effects; though from them we cannot perfectly know God as He is in His essence.

Article 3: Whether God Exists?

Objection 1: It seems that God does not exist; because if one of two contraries be infinite, the other would be altogether destroyed. But the word "God" means that He is infinite goodness. If, therefore, God existed, there would be no evil discoverable; but there is evil in the world. Therefore God does not exist.

Objection 2: Further, it is superfluous to suppose that what can be accounted for by a few principles has been produced by many. But it seems that everything we see in the world can be accounted for by other principles, supposing God did not exist. For all natural things can be reduced to one principle which is nature; and all voluntary things can be reduced to one principle which is human reason, or will. Therefore there is no need to suppose God's existence.

On the contrary, It is said in the person of God: "I am Who am." (Ex. 3:14)

I answer that, The existence of God can be proved in five ways.

The first and more manifest way is the argument from motion. It is certain, and evident to our senses, that in the world some things are in motion. Now whatever is in motion is put in motion by another, for nothing can be in motion except it is in potentiality to that towards which it is in motion; whereas a thing moves inasmuch as it is in act. For motion is nothing else than the reduction of something from potentiality to actuality. But nothing can be reduced from potentiality to actuality, except by something in a state of actuality. Thus that which is actually hot, as fire, makes wood, which is potentially hot, to be actually hot, and thereby moves and changes it. Now it is not possible that the same thing should be at once in actuality and potentiality in the same respect, but only in different respects. For what is actually hot cannot simultaneously be potentially hot; but it is simultaneously potentially cold. It is therefore impossible that in the same respect and in the same way a thing should be both mover and moved, i.e. that it should move itself. Therefore, whatever is in motion must be put in motion by another. If that by which it is put in motion be itself put in motion, then this also must needs be put in motion by another, and that by another again. But this cannot go on to infinity, because then there would be no first mover, and, consequently, no other mover; seeing that subsequent movers move only inasmuch as they are put in motion by the first mover; as the staff moves only because it is put in motion by the hand. Therefore it is necessary to arrive at a first mover, put in motion by no other; and this everyone understands to be God.

The second way is from the nature of the efficient cause. In the world of sense we find there is an order of efficient causes. There is no case known (neither is it, indeed, possible) in which a thing is found to be the efficient cause of itself; for so it would be prior to itself, which is impossible. Now in efficient causes it is not possible to go on to infinity, because in all efficient causes following in order, the first is the cause of the intermediate cause, and the intermediate is the cause of the ultimate cause, whether the intermediate cause be several, or only one. Now to take away the cause is to take away the effect.

Therefore, if there be no first cause among efficient causes, there will be no ultimate, nor any intermediate cause. But if in efficient causes it is possible to go on to infinity, there will be no first efficient cause, neither will there be an ultimate effect, nor any intermediate efficient causes; all of which is plainly false. Therefore it is necessary to admit a first efficient cause, to which everyone gives the name of God.

The third way is taken from possibility and necessity, and runs thus. We find in nature things that are possible to be and not to be, since they are found to be generated, and to corrupt, and consequently, they are possible to be and not to be. But it is impossible for these always to exist, for that which is possible not to be at some time is not. Therefore, if everything is possible not to be, then at one time there could have been nothing in existence. Now if this were true, even now there would be nothing in existence, because that which does not exist only begins to exist by something already existing. Therefore, if at one time nothing was in existence, it would have been impossible for anything to have begun to exist; and thus even now nothing would be in existence—which is absurd. Therefore, not all beings are merely possible, but there must exist something the existence of which is necessary. But every necessary thing either has its necessity caused by another, or not. Now it is impossible to go on to infinity in necessary things which have their necessity caused by another, as has been already proved in regard to efficient causes. Therefore we cannot but postulate the existence of some being having of itself its own necessity, and not receiving it from another, but rather causing in others their necessity. This all men speak of as God.

The fourth way is taken from the gradation to be found in things. Among beings there are some more and some less good, true, noble and the like. But "more" and "less" are predicated of different things, according as they resemble in their different ways something which is the maximum, as a thing is said to be hotter according as it more nearly resembles that which is hottest; so that there is something which is truest, something best, something noblest and, consequently, something which is uttermost being; for those things that are greatest in truth are greatest in being, as it is written in Metaph. ii. Now the maximum in any genus is the cause of all in that genus; as fire, which is the maximum heat, is the cause of all hot things. Therefore there must also be something which is to all beings the cause of their being, goodness, and every other perfection; and this we call God.

The fifth way is taken from the governance of the world. We see that things which lack intelligence, such as natural bodies, act for an end, and this is evident from their acting always, or nearly always, in the same way, so as to obtain the best result. Hence it is plain that not fortuitously, but designedly, do they achieve their end. Now whatever lacks intelligence cannot move towards an end, unless it be directed by some being endowed with knowledge and intelligence; as the arrow is shot to its mark by the archer. Therefore

some intelligent being exists by whom all natural things are directed to their end; and this being we call God.

Reply to Objection 1: As Augustine says (Enchiridion xi): "Since God is the highest good, He would not allow any evil to exist in His works, unless His omnipotence and goodness were such as to bring good even out of evil." This is part of the infinite goodness of God, that He should allow evil to exist, and out of it produce good.

Reply to Objection 2: Since nature works for a determinate end under the direction of a higher agent, whatever is done by nature must needs be traced back to God, as to its first cause. So also whatever is done voluntarily must also be traced back to some higher cause other than human reason or will, since these can change or fail; for all things that are changeable and capable of defect must be traced back to an immovable and self-necessary first principle, as was shown in the body of the Article.

The New Generation

by Aleksandr Solzhenitsyn

translated by Kenneth Lantz

They were writing the Strength of Materials exam.

Anatoly Pavlovich Vozdvizhensky, an engineer and associate professor in the Faculty of Civil Engineering, could see that his student Konoplyov's face was very flushed. He had broken into a sweat and had missed his turn to come up to the examiner's desk. Then, with a heavy gait, he approached and quietly asked for a different set of questions. Anatoly Pavlovich gazed at the sweaty face beneath a low forehead and met the desperate, imploring look in his bright eyes—and he gave him some new questions.

Another 90 minutes passed, a few more students had already submitted their answers, and the last four in the class were already sitting before him ready to present their results, but Konoplyov, who had been sitting among them and who now seemed even more flushed, was still not ready.

He sat there until all the others had left. The two were now alone in the lecture hall.

"All right, Konoplyov, your time's up," said Vozdvizhensky, firmly but not crossly. By now it was clear enough that this fellow didn't have a clue about anything. The few scribbles on his paper bore little resemblance to formulas, and his diagrams bore little resemblance to engineering drawings.

The broad-shouldered Konoplyov rose, his face covered with sweat. He did not go to the blackboard to write his answers but plodded over to the nearest desk, settled himself behind it, and in the most artless and open-hearted way said: "Anatoly Palych, this stuff's so complicated it's buggered up my whole brain."

"Then you have to apply yourself methodically to your work."

"Methodically, Anatoly Palych? That's what they tell us in all the courses, and there ain't a day passes when they don't. I never fool around and I'm at the books every night, but the stuff still won't get though my thick skull. Maybe if they didn't throw so much at us and took it a little easier. But it just won't sink in—I'm not cut out for this sort of thing."

His eyes looked out earnestly, and his voice was sincere; he wasn't lying, and he didn't look like a loafer.

"You came here from the Workers' Faculty?"

"Uh-huh."

"How long were you there?"

"I took a two-year intensive course."

"And what did you do before that?"

"I was at the Red Aksai Factory. A tinsmith."

His nose was large and broad, his face large boned, his lips thick.

This was not the first time Vozdvizhensky had wondered why they put fellows like him through such torment. He'd be better off making pots and pans in Aksai.

"I sympathize, but there's nothing I can do. I have to fail you."

But Konoplyov would not accept this and did not pull out his student record book. But he did press both his paw-like hands to his chest.

"Anatoly Palych, this just can't be. It's bad enough they'll take away part of my scholarship. And the Komsomol will give me a real blast. But no matter what they do, I ain't never gonna make it through strength of materials. What'll I do now? My life's been dragged upside and down, and I'm out of place here."

Well, that was obvious enough.

There were a good many of these fellows from the Workers' Faculty whose lives had been "dragged upside and down." What on earth were the authorities thinking when they pushed them into universities? They must have anticipated cases like this. The administration had given unambiguous instructions to make allowances for people from the Workers' Faculties. It was part of their policy of mass education.

Make allowances—but how far could you go? Some of the Workers' Faculty people had taken exams today, and Vozdvizhensky had been fairly tolerant with them. But not to the point of absurdity! How could he give a pass to this fellow when he doesn't know a thing? Everything I've tried to teach him has gone right over his head. As soon as he begins engineering it'll be obvious that he hasn't a clue about strength of materials.

He said, "I can't do it." And he said it again.

Yet Konoplyov kept begging, almost in tears—a rare thing to see in a roughneck like him.

And Anatoly Pavlovich thought: if the authorities have such a strict policy and are fully aware of the absurdities it creates, then why should I care more than they do?

He gave Konoplyov a little lecture, advising him how to change his study habits, how to read aloud to help him absorb the material, and what he should do to get his thoughts organized.

He took his student record. He heaved a deep sigh. Slowly and deliberately he wrote in "pass" and signed.

Konoplyov, radiant, jumped to his feet: "I'll never forget this, Anatoly Palych! Maybe I'll squeak through my other subjects, but that strength of materials is queer stuff for sure."

The Institute of Railways and Highways was on the outskirts of Rostov, and Anatoly Pavlovich had a long journey home. Riding in the streetcar he could see how shabby and nondescript his fellow passengers had become over the past years. Anatoly Pavlovich wore a modest and well-worn suit but still kept his white collar and tie. But now there were some professors in the institute who made a point of going about in a simple shirt, belted and worn outside their trousers. In spring one of them would wear sandals over his bare feet. This no longer astonished anyone and was completely in keeping with the spirit of the times. This was how the times were changing, and everyone was put out when they saw the wives of the NEP-men decked out in fancy dresses.

Anatoly Pavlovich arrived home just at the dinner hour. His exuberant wife, Nadya, the light of his life, was now in Vladikavkaz with their elder son, newly married and a railway engineer like his father. A cook fixed the meals in Vozdvizhensky's apartment three times a week, though today was not one of her days. But his daughter, Lyolka, bustled about energetically to make sure her father was properly fed. Their square oak table was already set and had a sprig of lilac at its center. She brought in a pitcher of vodka from the icebox for his invariable daily drink, taken from a small silver goblet. She heated and then served him soup with pastries.

She was making wonderful progress in her eighth grade at school, taking physics, chemistry, and math. She excelled at drawing and had her heart set on entering the same institute where her father taught. But four years ago a decree of 1922 had made it mandatory to filter the applicants and strictly limit the number of those of non-proletarian origin. Entrants not recommended by the party or the Komsomol had to present proof of their political reliability. (His son had managed to enroll the year before the decree.)

The way he had stretched the truth in Konoplyov's record book today continued to weigh heavily on his conscience.

He asked Lyolka about her school. The whole nine-year school (the Zinoviev School, though the name had now been erased from the sign) had been shaken by a recent suicide: a few months before the end of the school year a grade-nine student, Misha

Derevyanko, had hanged himself. There was a hasty funeral, and immediately thereafter all the grades held meetings for criticism and tongue-lashings: this event had been a product of bourgeois individualism and a symptom of the moral decay of everyday life; Derevyanko was nothing more than a spot of rust that everyone must scrape away. Lyolka and her two friends, though, were sure that Misha had been badgered by the school's Komsomol cell.

Today she was worried and added something that was no longer a rumor but a certain fact: the school principal, Malevich—a man everyone adored, an old teacher from a pre-revolutionary gimnaziya who had somehow held on for all these years and who kept the whole school running like a well-regulated machine through his cheerful discipline—Malevich was being removed.

Lyolka ran off to the primus stove for the beef Stroganoff, and then they had tea and pastries.

The father gazed at his daughter with tenderness. How proudly she tossed back her head with its curls of chestnut hair (she had no interest in the fashion for keeping hair short); and how intelligent she looked as she crinkled her forehead and spoke her mind so precisely and simply.

As is often the case with girls, her face expressed the wonderful riddle of her future. But as her father gazed at it, this riddle had become a nagging ache: how could he determine what would become of her in this future that no one could predict? Would these many years of growth, education, and concern for her reach a triumphant conclusion, or would it they do her damage?

"Just the same, Lyolyenka, you can't avoid joining the Komsomol. You've only one year more, and you can't take the risk. Otherwise they won't accept you anywhere, and I won't be able to help you get into my institute either."

"I don't want to!" She tossed her head, setting her hair awry. "The Komsomol is disgusting."

Anatoly Pavlovich sighed once more.

"You know," he suggested gently, and indeed, he fully believed it himself, "this new generation of young people really does have something, some truth that we can't fully understand. They certainly must have something."

Three generations of the intelligentsia could not have been mistaken about how to give the people access to culture and liberate their energies. Of course, not everyone has what it takes to cope with this surge ahead, this leap forward. The mental effort is simply too much, and they don't always have the strength of character—it's no easy thing to educate

oneself outside the framework of years of inherited tradition. But we absolutely must help them scale the heights and patiently put up with their sometimes clumsy escapades.

"Yet you must agree that they have amazing optimism and a powerful faith in their cause that we can only envy. And you simply can't avoid swimming along in this stream, my dear, or you might well let the whole Epoch slip past, as they say. What's being created—and granted, it's being created stupidly, clumsily, and by fits and starts—is something majestic. The whole world is watching and holding its breath, all the intelligentsia of the West. People in Europe aren't fools, after all."

After successfully ridding himself of his strength of materials course, Lyoshka Konoplyov was happy to join his comrades who were going to the Lenin Regional Soviet House of Culture that evening. The gathering was not only for Komsomol members; some of the new generation's non-party young folks had also come. A fellow from Moscow was giving a talk—"On the Tasks of Today's Youth."

The hall held about 600, and it was crammed full, some even standing. There was a whole lot of red to be seen: at the back of the platform were two red banners embroidered with gold, spread out and leaning toward each other; in front of them, high as your chest, was a bronze-colored Lenin on a post. The girls had red kerchiefs round their necks, and a few had bands of red calico round their heads; the Young Pioneer leaders all wore red pioneer neck scarves and some had brought a few of the older pioneers, who were sitting with their leaders.

So here we were, a united crowd, all us young people close friends, even though we don't know each other: this is what we are, we're all our people, all of us like one. Builders of the New World, as they say. And knowing that gives each one of us the strength of three.

Then three buglers marched out to the front of the platform, also with red cloths dangling from their bugles. They formed up in a row and blew the call to muster. The call of those buglers came like the crack of a whip and it brought the whole crowd to life. There was something in this grand ceremony of coming together that just seemed to draw you in—the red banners by the corner, the bronze Lenin, the gleaming silver of the bugles, the proud bearing of the buglers, and the piercing sounds they made. It hit you like some great battle cry, like making a solemn promise under oath.

The buglers stepped off smartly in line. Then out marched the speaker, a short, fat little fellow who couldn't keep his arms still. He took his place behind the rostrum and started to talk—quickly, confidently, forcefully—and he didn't read it from a paper, it was all from his head.

First he talked about how living through the great but stormy times of Revolution and Civil War had disrupted the lives of young people, but at the same time it had forced them to turn away from the pettiness and dullness of everyday reality.

"This transition has been hard for you, this new generation. The emotions brought on by the events of revolution are felt particularly keenly by young people like you who are at the age of transition. A few of you might think that it would be much more fun to begin a real revolution all over again: you would know at once what you had to do and where you had to go. Hurry up—press on, blow up something, shake up something, otherwise what was the point of October? Take China, now—they need a revolution, and why isn't one starting? What a fine thing it would be to live and fight for World Revolution, but here we are, forced to study some rubbish like theorems in geometry, and what's the point of that?"

Or strength of materials. He's right, there's a better use for idle arms and legs, and a better place for strong backs.

"But no," the speaker urged them, and he came out from behind his rostrum and trotted across the stage, getting really carried away by his own speech.

"You have to understand the present moment correctly and master it. Our young people are the most fortunate in the entire history of humanity. They are ready for battle, ready to take a productive place in life. Their qualities are, first, godlessness, a sense of complete freedom from all that is unscientific. The huge store of confidence and thirst for life that the old beliefs once held in check have now been unleashed. The second quality of our new generation is avant-gardism and planetism, the need to be at the forefront of our epoch. Our friends and our enemies are watching us."

And he turned his little head to gaze around the hall, as if seeking out those friends—and particularly those enemies—from all the distant lands across the seas.

"No more do we base our lives only on what we can see from our own doorstep. Now our young folks examine every detail of life but do so exclusively from a universal point of view. Then there is the third quality: a scrupulous class consciousness, a necessary though temporary rejection of 'the sense of humanity in general.' And then comes optimism!"

He approached the very edge of the platform and, showing no concern about tumbling off, he leaned toward the crowd as far as he could: "You must realize! You are the most exuberant young people in the world! What staunchness and determination this joyous energy gives you!"

He trotted across the stage again, never stopping the flow of his speech: "And then you have the thirst for knowledge. And the scientific organization of your labor. And you want to rationalize your biological processes as well. You have a militant passion—and what a

passion it is! You also want to become leaders. And your organic, class brotherhood has given you a sense of collectivism, one that has been so ingrained that the collective even involves itself in the intimate lives of its members. And that is just as it should be!"

Even though the speaker was acting a bit like a clown, no one was laughing. They weren't whispering to one another; they were all ears. The speaker was helping these young people understand themselves, and that was a useful thing. As he grew more heated he would raise one short arm and then both, as if calling out to them, as if to convince them completely.

"Look also at the young women of this new generation, and how they have become aware of the power of the socialism we are creating ... In only a few short years women have acquired personal freedom in their intimate lives—sexual liberation. And a woman demands that a man reexamine relationships, otherwise she herself will break down the backward, slave-owning attitudes of the male as she brings a revolutionary freshness into sexual morality. And so the revolutionary resultant force is being sought and is being found in the realm of love as well: we switch our bioenergy onto socially creative rails."

He finished. But he didn't seem tired. He must be used to this. He headed back behind the rostrum. "Are there any questions?"

They began asking questions, right from their seats or in notes that were passed to him.

Most of the questions were about sexual liberation. One comment hit home for Konoplyov: "It's easy to say, 'Achieve a whole decade of development in two years,' but working at that pace might well kill you."

Then even the young pioneers felt bold enough to ask some questions:

"Can a pioneer girl wear ribbons in her hair?"

"Can she wear a bit of makeup?"

"And who should listen to whom: a good pioneer to a bad father, or a bad father to a good pioneer?"

2

As early as 1928, the Shakhty Affair, so close to Rostov, had thrown a huge scare into the city's engineering fraternity. And here, too, people had begun to disappear.

It took some time to grow accustomed to this. Before the Revolution, an arrested person continued living behind bars or in exile, keeping in touch with his family and friends. But now? He simply dropped into oblivion ...

In the past September of 1930, there was an ominous rumbling across the land: 48 people —"wreckers in the food supply chain"—were sentenced to be shot. "Responses from workers" appeared in the newspapers: "Wreckers must be wiped from the face of the earth!" The front page of Izvestia proclaimed: "Crush the serpent beneath your heel!" and the proletariat demanded that the OGPU be awarded the Order of Lenin.

In November they published the indictment in the case of "The Industrial Party," and that meant a direct attack on the engineers. Once more the chilling phrases appeared in the newspapers: "Agents of the French interventionists and White émigrés," and "Sweep away these traitors with an iron broom!"

Such things tore at your heart, but you were helpless. Not everyone could even express their fears, and those who did could only speak to someone they knew well, as well as Anatoly Pavlovich had known Friedrich Albertovich these past 10 years.

There was a four-hour demonstration in Rostov on the day the Industrial Party trial began, with the demonstrators demanding that all the accused be shot! It was unbearably vile. (Vozdvizhensky had managed to wriggle out of it and did not attend.)

Living day after day, feeling the tension and the darkness within, the sense of doom grew ever stronger. But why would they come for him? He had worked as if inspired all through Soviet times; he was resourceful, he believed in what he was doing, and it was only the stupidity and shoddy practices of the party bosses that hindered him at every step.

One night, less than two months after the trial, they came for Vozdvizhensky.

Then began an incomprehensible, nightmarish time of delirium, and it went on for many days and nights. It began with being stripped naked, having all the buttons of your clothes cut off and the soles of your shoes pierced with an awl; it continued in a stifling underground chamber with no ventilation, breathing air already breathed by many people. There was not a single window and never the light of day, but set in the ceiling were squares of bottle glass you couldn't see through. In this cell without beds you slept on the floor, on concrete that had been covered with loose planks. Everyone was stupefied from nighttime interrogations, some beaten until they were covered with bruises, others with hands burned by cigarette butts, some sitting in silence, others telling half-insane stories. Vozdvizhensky had never once been called out or touched by anyone, but his mind had already been shaken from its foundations and could no longer grasp what was happening or even connect itself with his former life—now, alas, gone forever. His poor health meant that he hadn't been called up for the German War; no one had bothered him during the Civil War that had run violently through Rostov-Novocherkassk. He had spent a quarter century at deliberate intellectual labor, and now he could only tremble each time the door

opened, by day or by night: had they come for him? There was no way he was prepared to stand up under torture!

He wasn't called out, however. Everyone in the cell in this underground warehouse was amazed. (Only later did they realize it actually was a warehouse, and the thick glass apertures in the ceiling were set into the sidewalk on the city's main street, along which carefree pedestrians constantly passed, people who had not yet been doomed to end here; and they could feel the walls tremble as streetcars passed above).

They didn't call him out. Everyone was amazed: these newcomers usually get dragged out straightaway.

So maybe it really was a mistake? Maybe they would let him go?

But on one of those days—he had lost count which one—he was called out. "Hands behind your back," and a warder with jet-black hair led him out and then up a flight of stairs—to ground level?—and then higher and higher, several stories, the whole while clucking his tongue like some mysterious bird.

An interrogator in a GPU uniform sat at a desk in a shadowy room. You could barely make out his features, only that he was young and broad-faced. He silently pointed to a tiny table that stood in the opposite corner, diagonally from his desk. Vozdvizhensky found himself sitting on a narrow chair, facing a gloomy window some distance away. The lamp had not been turned on.

He waited with sinking heart. The interrogator continued to write in silence.

Then he said, severely: "Tell me about your wrecking activities."

Vozdvizhensky was more astonished than frightened. "There was never anything of the sort, I assure you!" He wanted to add a perfectly reasonable thought: how can an engineer spoil anything?

But after the Industrial Party affair?

"Never mind that, just tell me."

"There was nothing, it could never happen!"

The interrogator went on writing but still didn't switch on the lamp. Then, without getting to his feet, he said in a firm voice: "You've had a good look at your cell? But you haven't seen everything yet. We can have you can sleep on concrete without any planks. Or in some damp pit. Or keep you under a 1,000-watt light that'll blind you."

Vozdvizhensky could barely prop up his head in his hands. They really could do any of these things. And how would he ever endure it?

At this point the interrogator switched on his desk lamp, rose, switched on the overhead light and moved to the middle of the room to look at the person he was interrogating.

Though he wore a Chekist's uniform, his face looked utterly simple and naïve. Broadboned, a short, wide nose, and thick lips.

Then, in a milder voice: "Anatoly Palych, I know very well that you weren't involved in wrecking. But even you have to understand that from here no one leaves with an acquittal. It's either a bullet in the back of the neck or a term in the camps."

It was not the harsh language, it was the kindly voice that amazed Vozdvizhensky. He stared fixedly at the interrogator's face, and saw something familiar in it. It was such a simple face. Had he seen it before?

The interrogator went on standing in the middle of the room, under the light. He said not a word.

Vozdvizhensky knew he'd seen him before. But he couldn't recall where.

"You don't remember Konoplyov?" he asked.

Konoplyov! Of course! The fellow who didn't know his strength of materials. And who then disappeared from the faculty.

"Yes, I didn't finish at the institute. On orders of the Komsomol they took me into the GPU. I've been here three years."

So what now?

They chatted a bit, quite easily, a normal human conversation. Just as if it were happening in that life, before the nightmare.

Konoplyov said: "Anatoly Palych, the GPU doesn't make mistakes. No one ever gets out of here just like that. And though I'd like to help you, I don't know how I can. So think about it. You have to make up something."

Vozdvizhensky returned to the cellar with new hope.

But also with a fog whirling about in his mind. He wouldn't be able to make up anything.

But then to go to a camp? To Solovki?

He was struck and encouraged by Konoplyov's sympathy. Inside these walls? In a place like this?

He thought about these people from the Workers' Faculties who were now rising through the ranks. What he had seen of them until now was something different: a crude, conceited fellow had been Vozdvizhenky's boss when he worked as an engineer. And in the school that Lyolka had finished some dimwit had been assigned to replace the gifted Malevich.

And, to be sure, poets long before the Revolution had foreseen it and predicted the coming of these new Huns ...

After three more days in the cellar under the street, beneath the steps of unsuspecting passersby, Konoplyov summoned him again.

Vozdvizhensky still hadn't thought of anything to make up.

"But you must," Konoplyov insisted. "There's nothing else you can do. Please, Anatoly Palych, don't make me resort to measures. Or have them give you a new interrogator. Then you've had it for sure."

Meanwhile, he was moved to a better cell—less damp and with bunks to sleep in. They gave him some tobacco and allowed him to receive a parcel from home. The joy over the parcel came not because of the food and clean underwear it contained, it came because his family now knew he was here! And alive. (His wife would get his signature on the receipt for the parcel.)

Konoplyov summoned him again and again tried to persuade him. But how could he dishonor his 20 years of diligent, absorbing work? Simply—how could he dishonor himself, his very soul?

As for Konoplyov, he would now pass on the investigation—inconclusive—to someone else.

Another day Konoplyov told him: "I've thought of something and made the arrangements. There's a way you can be let out: just sign a promise to supply us with the information we need."

Vozdvizhensky recoiled: "How can that be ...? How ...? What ...? And what information can I give you?"

"About the mood among the engineers. About some of your acquaintances, Friedrich Werner, for instance. And there's others on the list."

Vozdvizhensky squeezed his head in his hands: "That I can never do!!"

Konoplyov shook his head. He simply couldn't believe it.

"So—is it the camps? Just keep in mind: your daughter will also get kicked out of her last year as a class alien. And maybe your possessions and your apartment will be confiscated. I'm doing you a big favor."

Anatoly Pavlovich sat there, unable to feel the chair beneath him and scarcely able to see Konoplyov right before him.

He dropped his head on the little table—and broke into sobs.

A week later he was set free.

The Varieties of Religious Experience

by William James

Lecture XX

The material of our study of human nature is now spread before us; and in this parting hour, set free from the duty of description, we can draw our theoretical and practical conclusions. In my first lecture, defending the empirical method, I foretold that whatever conclusions we might come to could be reached by spiritual judgments only, appreciations of the significance for life of religion, taken 'on the whole.' Our conclusions cannot be as sharp as dogmatic conclusions would be, but I will formulate them, when the time comes, as sharply as I can.

Summing up in the broadest possible way the characteristics of the religious life, as we have found them, it includes the following beliefs:

- 1. That the visible world is part of a more spiritual universe from which it draws its chief significance;
- 2. That union or harmonious relation with that higher universe is our true end;
- 3. That prayer or inner communion with the spirit thereof- be that spirit 'God' or 'law'- is a process wherein work is really done, and spiritual energy flows in and produces effects, psychological or material, within the phenomenal world.

Religion includes also the following psychological characteristics:

- 4. A new zest which adds itself like a gift to life, and takes the form either of lyrical enchantment or of appeal to earnestness and heroism.
- 5. An assurance of safety and a temper of peace, and, in relation to others, a preponderance of loving affections.

In illustrating these characteristics by documents, we have been literally bathed in sentiment. In re-reading my manuscript, I am almost appalled at the amount of emotionality which I find in it. After so much of this, we can afford to be dryer and less sympathetic in the rest of the work that lies before us.

The sentimentality of many of my documents is a consequence of the fact that I sought them among the extravagances of the subject. If any of you are enemies of what our ancestors used to brand as enthusiasm, and are, nevertheless, still listening to me now, you

have probably felt my selection to have been sometimes almost perverse, and have wished I might have stuck to soberer examples. I reply that I took these extremer examples as yielding the profounder information. To learn the secrets of any science, we go to expert specialists, even though they may be eccentric persons, and not to commonplace pupils. We combine what they tell us with the rest of our wisdom, and form our final judgment independently. Even so with religion. We who have pursued such radical expressions of it may now be sure that we know its secrets as authentically as any one can know them who learns them from another; and we have next to answer, each of us for himself, the practical question: what are the dangers in this element of life? and in what proportion may it need to be restrained by other elements, to give the proper balance?

But this question suggests another one which I will answer immediately and get it out of the way, for it has more than once already vexed us. Ought it to be assumed that in all men the mixture of religion with other elements should be identical? Ought it, indeed, to be assumed that the lives of all men should show identical religious elements? In other words, is the existence of so many religious types and sects and creeds regrettable?

To these questions I answer 'No' emphatically. And my reason is that I do not see how it is possible that creatures in such different positions and with such different powers as human individuals are, should have exactly the same functions and the same duties. No two of us have identical difficulties, nor should we be expected to work out identical solutions. Each, from his peculiar angle of observation, takes in a certain sphere of fact and trouble, which each must deal with in a unique manner. One of us must soften himself, another must harden himself; one must yield a point, another must stand firm,in order the better to defend the position assigned him. If an Emerson were forced to be a Wesley, or a Moody forced to be a Whitman, the total human consciousness of the divine would suffer. The divine can mean no single quality, it must mean a group of qualities, by being champions of which in alternation, different men may all find worthy missions. Each attitude being a syllable in human nature's total message, it takes the whole of us to spell the meaning out completely. So a 'god of battles' must be allowed to be the god for one kind of person, a god of peace and heaven and home, the god for another. We must frankly recognize the fact that we live in partial systems, and that parts are not interchangeable in the spiritual life. If we are peevish and jealous, destruction of the self must be an element of our religion; why need it be one if we are good and sympathetic from the outset? If we are sick souls, we require a religion of deliverance; but why think so much of deliverance, if we are healthy-minded? Unquestionably, some men have the completer experience and the higher vocation, here just as in the social world; but for each man to stay in his own experience, whate'er it be, and for others to tolerate him there, is surely best.

But, you may now ask, would not this one-sidedness be cured if we should all espouse the science of religions as our own religion? In answering this question I must open again the general relations of the theoretic to the active life.

Knowledge about a thing is not the thing itself. You remember what Al-Ghazzali told us in the Lecture on Mysticism,- that to understand the causes of drunkenness, as a physician understands them, is not to be drunk. A science might come to understand everything about the causes and elements of religion, and might even decide which elements were qualified, by their general harmony with other branches of knowledge, to be considered true; and yet the best man at this science might be the man who found it hardest to be personally devout. *Tout savoir c'est tout pardonner*. The name of Renan would doubtless occur to many persons as an example of the way in which breadth of knowledge may make one only a dilettante in possibilities, and blunt the acuteness of one's living faith.² If religion be a function by which either God's cause or man's cause is to be really advanced, then he who lives the life of it, however narrowly, is a better servant than he who merely knows about it, however much. Knowledge about life is one thing; effective occupation of a place in life, with its dynamic currents passing through your being, is another.

For this reason, the science of religions may not be an equivalent for living religion; and if we turn to the inner difficulties of such a science, we see that a point comes when she must drop the purely theoretic attitude, and either let her knots remain uncut, or have them cut by active faith. To see this, suppose that we have our science of religions constituted as a matter of fact. Suppose that she has assimilated all the necessary historical material and distilled out of it as its essence the same conclusions which I myself a few moments ago pronounced. Suppose that she agrees that religion, wherever it is an active thing, involves a belief in ideal presences, and a belief that in our prayerful communion with them,³ work is done, and something real comes to pass. She has now to exert her critical activity, and to decide how far, in the light of other sciences and in that of general philosophy, such beliefs can be considered *true*.

Dogmatically to decide this is an impossible task. Not only are the other sciences and the philosophy still far from being completed, but in their present state we find them full of conflicts. The sciences of nature know nothing of spiritual presences, and on the whole hold no practical commerce whatever with the idealistic conceptions towards which general philosophy inclines. The scientist, so-called, is, during his scientific hours at least, so materialistic that one may well say that on the whole the influence of science goes against the notion that religion should be recognized at all. And this antipathy to religion finds an echo within the very science of religions itself. The cultivator of this science has to become acquainted with so many groveling and horrible superstitions that a presumption easily arises in his mind that any belief that is religious probably is false. In

the 'prayerful communion' of savages with such mumbo-jumbos of deities as they acknowledge, it is hard for us to see what genuine spiritual work- even though it were work relative only to their dark savage obligations- can possibly be done.

The consequence is that the conclusions of the science of religions are as likely to be adverse as they are to be favorable to the claim that the essence of religion is true. There is a notion in the air about us that religion is probably only an anachronism, a case of 'survival,' an atavistic relapse into a mode of thought which humanity in its more enlightened examples has outgrown; and this notion our religious anthropologists at present do little to counteract.

This view is so widespread at the present day that I must consider it with some explicitness before I pass to my own conclusions. Let me call it the 'Survival theory,' for brevity's sake.

The pivot round which the religious life, as we have traced it, revolves, is the interest of the individual in his private personal destiny. Religion, in short, is a monumental chapter in the history of human egotism. The gods believed in- whether by crude savages or by men disciplined intellectually- agree with each other in recognizing personal calls. Religious thought is carried on in terms of personality, this being, in the world of religion, the one fundamental fact. To-day, quite as much as at any previous age, the religious individual tells you that the divine meets him on the basis of his personal concerns.

Science, on the other hand, has ended by utterly repudiating the personal point of view. She catalogues her elements and records her laws indifferent as to what purpose may be shown forth by them, and constructs her theories quite careless of their bearing on human anxieties and fates. Though the scientist may individually nourish a religion, and be a theist in his irresponsible hours, the days are over when it could be said that for Science herself the heavens declare the glory of God and the firmament showeth his handiwork. Our solar system, with its harmonies, is seen now as but one passing case of a certain sort of moving equilibrium in the heavens, realized by a local accident in an appalling wilderness of worlds where no life can exist. In a span of time which as a cosmic interval will count but as an hour, it will have ceased to be. The Darwinian notion of chance production, and subsequent destruction, speedy or deferred, applies to the largest as well as to the smallest facts. It is impossible, in the present temper of the scientific imagination, to find in the driftings of the cosmic atoms, whether they work on the universal or on the particular scale, anything but a kind of aimless weather, doing and undoing, achieving no proper history, and leaving no result. Nature has no one distinguishable ultimate tendency with which it is possible to feel a sympathy. In the vast rhythm of her processes, as the scientific mind now follows them, she appears to cancel herself. The books of natural theology which satisfied the intellects of our grandfathers seem to us quite grotesque, 4 representing, as they did, a God who conformed the largest

things of nature to the paltriest of our private wants. The God whom science recognizes must be a God of universal laws exclusively, a God who does a wholesale, not a retail business. He cannot accommodate his processes to the convenience of individuals. The bubbles on the foam which coats a stormy sea are floating episodes, made and unmade by the forces of the wind and water. Our private selves are like those bubbles,-epiphenomena, as Clifford, I believe, ingeniously called them; their destinies weigh nothing and determine nothing in the world's irremediable currents of events.

You see how natural it is, from this point of view, to treat religion as a mere survival, for religion does in fact perpetuate the traditions of the most primeval thought. To coerce the spiritual powers, or to square them and get them on our side, was, during enormous tracts of time, the one great object in our dealings with the natural world. For our ancestors, dreams, hallucinations, revelations, and cock-and-bull stories were inextricably mixed with facts. Up to a comparatively recent date such distinctions as those between what has been verified and what is only conjectured, between the impersonal and the personal aspects of existence, were hardly suspected or conceived. Whatever you imagined in a lively manner, whatever you thought fit to be true, you affirmed confidently; and whatever you affirmed, your comrades believed. Truth was what had not yet been contradicted, most things were taken into the mind from the point of view of their human suggestiveness, and the attention confined itself exclusively to the aesthetic and dramatic aspects of events.⁵

How indeed could it be otherwise? The extraordinary value, for explanation and prevision, of those mathematical and mechanical modes of conception which science uses, was a result that could not possibly have been expected in advance. Weight, movement, velocity, direction, position, what thin, pallid, uninteresting ideas! How could the richer animistic aspects of Nature, the peculiarities and oddities that make phenomena picturesquely striking or expressive, fail to have been first singled out and followed by philosophy as the more promising avenue to the knowledge of Nature's life? Well, it is still in these richer animistic and dramatic aspects that religion delights to dwell, It is the terror and beauty of phenomena, the 'promise' of the dawn and of the rainbow, the 'voice' of the thunder, the 'gentleness' of the summer rain, the 'sublimity' of the stars, and not the physical laws which these things follow, by which the religious mind still continues to be most impressed; and just as of yore, the devout man tells you that in the solitude of his room or of the fields he still feels the divine presence, that inflowings of help come in reply to his prayers, and that sacrifices to this unseen reality fill him with security and peace.

Pure anachronism! says the survival-theory;—anachronism for which deanthropomorphization of the imagination is the remedy required. The less we mix the private with the cosmic, the more we dwell in universal and impersonal terms, the truer heirs of Science we become.

In spite of the appeal which this impersonality of the scientific attitude makes to a certain magnanimity of temper, I believe it to be shallow, and I can now state my reason in comparatively few words. That reason is that, so long as we deal with the cosmic and the general, we deal only with the symbols of reality, but as soon as we deal with private and personal phenomena as such, we deal with realities in the completest sense of the term. I think I can easily make clear what I mean by these words.

The world of our experience consists at all times of two parts, an objective and a subjective part, of which the former may be incalculably more extensive than the latter, and yet the latter can never be omitted or suppressed. The objective part is the sum total of whatsoever at any given time we may be thinking of, the subjective part is the inner 'state' in which the thinking comes to pass. What we think of may be enormous, the cosmic times and spaces, for example, - whereas the inner state may be the most fugitive and paltry activity of mind. Yet the cosmic objects, so far as the experience yields them, are but ideal pictures of something whose existence we do not inwardly possess but only point at outwardly, while the inner state is our very experience itself; its reality and that of our experience are one. A conscious field *plus* its object as felt or thought of plus an attitude towards the object *plus* the sense of a self to whom the attitude belongs- such a concrete bit of personal experience may be a small bit, but it is a solid bit as long as it lasts; not hollow, not a mere abstract element of experience, such as the 'object' is when taken all alone. It is a *full* fact, even though it be an insignificant fact; it is of the *kind* to which all realities whatsoever must belong; the motor currents of the world run through the like of it; it is on the line connecting real events with real events. That unsharable feeling which each one of us has of the pinch of his individual destiny as he privately feels it rolling out on fortune's wheel may be disparaged for its egotism, may be sneered at as unscientific, but it is the one thing that fills up the measure of our concrete actuality, and any would-be existent that should lack such a feeling, or its analogue, would be a piece of reality only half made up.6

If this be true, it is absurd for science to say that the egotistic elements of experience should be suppressed. The axis of reality runs solely through the egotistic places,—they are strung upon it like so many beads. To describe the world with all the various feelings of the individual pinch of destiny, all the various spiritual attitudes, left out from the description—they being as describable as anything else—would be something like offering a printed bill of fare as the equivalent for a solid meal. Religion makes no such blunder. The individual's religion may be egotistic, and those private realities which it keeps in touch with may be narrow enough; but at any rate it always remains infinitely less hollow and abstract, as far as it goes, than a science which prides itself on taking no account of anything private at all.

A bill of fare with one real raisin on it instead of the word 'raisin,' with one real egg instead of the word 'egg,' might be an inadequate meal, but it would at least be a

commencement of reality. The contention of the survival-theory that we ought to stick to non-personal elements exclusively seems like saying that we ought to be satisfied forever with reading the naked bill of fare. I think, therefore, that however particular questions connected with our individual destinies may be answered, it is only by acknowledging them as genuine questions, and living in the sphere of thought which they open up, that we become profound. But to live thus is to be religious; so I unhesitatingly repudiate the survival-theory of religion, as being founded on an egregious mistake. It does not follow, because our ancestors made so many errors of fact and mixed them with their religion, that we should therefore leave off being religious at all. By being religious we establish ourselves in possession of ultimate reality at the only points at which reality is given us to guard. Our responsible concern is with our private destiny, after all.

You see now why I have been so individualistic throughout these lectures, and why I have seemed so bent on rehabilitating the element of feeling in religion and subordinating its intellectual part. Individuality is founded in feeling; and the recesses of feeling, the darker, blinder strata of character, are the only places in the world in which we catch real fact in the making, and directly perceive how events happen, and how work is actually done. Compared with this world of living individualized feelings, the world of generalized objects which the intellect contemplates is without solidity or life. As in stereoscopic or kinetoscopic pictures seen outside the instrument, the third dimension, the movement, the vital element, are not there. We get a beautiful picture of an express train supposed to be moving, but where in the picture, as I have heard a friend say, is the energy or the fifty miles an hour?

Let us agree, then, that Religion, occupying herself with personal destinies and keeping thus in contact with the only absolute realities which we know, must necessarily play an eternal part in human history. The next thing to decide is what she reveals about those destinies, or whether indeed she reveals anything distinct enough to be considered a general message to mankind. We have done as you see, with our preliminaries, and our final summing up can now begin.

I am well aware that after all the palpitating documents which I have quoted, and all the perspectives of emotion-inspiring institution and belief that my previous lectures have opened, the dry analysis to which I now advance may appear to many of you like an anticlimax, a tapering-off and flattening out of the subject, instead of a crescendo of interest and result. I said awhile ago that the religious attitude of Protestants appears poverty-stricken to the Catholic imagination. Still more poverty-stricken, I fear, may my final summing up of the subject appear at first to some of you. On which account I pray you now to bear this point in mind, that in the present part of it I am expressly trying to reduce religion to its lowest admissible terms, to that minimum, free from individualistic excrescences, which all religions contain as their nucleus, and on which it may be hoped

that all religious persons may agree. That established, we should have a result which might be small, but would at least be solid; and on it and round it the ruddier additional beliefs on which the different individuals make their venture might be grafted, and flourish as richly as you please. I shall add my own over-belief (which will be, I confess, of a somewhat pallid kind, as befits a critical philosopher), and you will, I hope, also add your over-beliefs, and we shall soon be in the varied world of concrete religious constructions once more. For the moment, let me dryly pursue the analytic part of the task.

Both thought and feeling are determinants of conduct, and the same conduct may be determined either by feeling or by thought. When we survey the whole field of religion, we find a great variety in the thoughts that have prevailed there; but the feelings on the one hand and the conduct on the other are almost always the same, for Stoic, Christian, and Buddhist saints are practically indistinguishable in their lives. The theories which Religion generates, being thus variable, are secondary; and if you wish to grasp her essence, you must look to the feelings and the conduct as being the more constant elements. It is between these two elements that the short circuit exists on which she carries on her principal business, while the ideas and symbols and other institutions form loop-lines which may be perfections and improvements, and may even some day all be united into one harmonious system, but which are not to be regarded as organs with an indispensable function, necessary at all times for religious life to go on. This seems to me the first conclusion which we are entitled to draw from the phenomena we have passed in review.

The next step is to characterize the feelings. To what psychological order do they belong?

The resultant outcome of them is in any case what Kant calls a 'sthenic' affection, an excitement of the cheerful, expansive, 'dynamogenic' order which, like any tonic, freshens our vital powers. In almost every lecture, but especially in the lectures on Conversion and on Saintliness, we have seen how this emotion overcomes temperamental melancholy and imparts endurance to the Subject, or a zest, or a meaning, or an enchantment and glory to the common objects of life. The name of 'faith-state,' by which Professor Leuba designates it, is a good one. ¹⁰ It is a biological as well as a psychological condition, and Tolstoy is absolutely accurate in classing faith among the forces by which men live. ¹¹) The total absence of it, anhedonia, ¹² means collapse.

The faith-state may hold a very minimum of intellectual content. We saw examples of this in those sudden raptures of the divine presence, or in such mystical seizures as Dr. Bucke described.¹³ It may be a mere vague enthusiasm, half spiritual, half vital, a courage, and a feeling that great and wondrous things are in the air.¹⁴

When, however, a positive intellectual content is associated with a faith-state, it gets invincibly stamped in upon belief, ¹⁵ and this explains the passionate loyalty of religious

persons everywhere to the minutest details of their so widely differing creeds. Taking creeds and faith-state together, as forming 'religions,' and treating these as purely subjective phenomena, without regard to the question of their 'truth,' we are obliged, on account of their extraordinary influence upon action and endurance, to class them amongst the most important biological functions of mankind. Their stimulant and anaesthetic effect is so great that Professor Leuba, in a recent article, ¹⁶ goes so far as to say that so long as men can use their God, they care very little who he is, or even whether he is at all. "The truth of the matter can be put," says Leuba, "in this way: God is not known, he is not understood; he is used-sometimes as meat-purveyor, sometimes as moral support, sometimes as friend, sometimes as an object of love. If he proves himself useful, the religious consciousness asks for no more than that. Does God really exist? How does he exist? What is he? are so many irrelevant questions. Not God, but life, more life, a larger, richer, more satisfying life, is, in the last analysis, the end of religion. The love of life, at any and every level of development, is the religious impulse.¹⁷

At this purely subjective rating, therefore, Religion must be considered vindicated in a certain way from the attacks of her critics. It would seem that she cannot be a mere anachronism and survival, but must exert a permanent function, whether she be with or without intellectual content, and whether, if she have any, it be true or false.

We must next pass beyond the point of view of merely subjective utility, and make inquiry into the intellectual content itself.

First, is there, under all the discrepancies of the creeds, a common nucleus to which they bear their testimony unanimously?

And second, ought we to consider the testimony true?

I will take up the first question first, and answer it immediately in the affirmative. The warring gods and formulas of the various religions do indeed cancel each other, but there is a certain uniform deliverance in which religions all appear to meet. It consists of two parts:

- 1. An uneasiness; and
- 2. Its solution.
- 1. The uneasiness, reduced to its simplest terms, is a sense that there is *something* wrong about us as we naturally stand.
- 2. The solution is a sense that we are saved from the wrongness by making proper connection with the higher powers.

In those more developed minds which alone we are studying, the wrongness takes a moral character, and the salvation takes a mystical tinge. I think we shall keep well within the limits of what is common to all such minds if we formulate the essence of their religious experience in terms like these:

The individual, so far as he suffers from his wrongness and criticises it, is to that extent consciously beyond it, and in at least possible touch with something higher, if anything higher exist. Along with the wrong part there is thus a better part of him, even though it may be but a most helpless germ. With which part he should identify his real being is by no means obvious at this stage; but when stage 2 (the stage of solution or salvation) arrives, ¹⁸ the man identifies his real being with the germinal higher part of himself; and does so in the following way. He becomes conscious that this higher part is conterminous and continuous with a MORE of the same quality, which is operative in the universe outside of him, and which he can keep in working touch with, and in a fashion get on board of and save himself when all his lower being has gone to pieces in the wreck.

It seems to me that all the phenomena are accurately describable in these very simple general terms.¹⁹ They allow for the divided self and the struggle; they involve the change of personal centre and the surrender of the lower self; they express the appearance of exteriority of the helping power and yet account for our sense of union with it;²⁰ and they fully justify our feelings of security and joy. There is probably no autobiographic document, among all those which I have quoted, to which the description will not well apply. One need only add such specific details as will adapt it to various theologies and various personal temperaments, and one will then have the various experiences reconstructed in their individual forms.

So far, however, as this analysis goes, the experiences are only psychological phenomena. They possess, it is true, enormous biological worth. Spiritual strength really increases in the subject when he has them, a new life opens for him, and they seem to him a place of conflux where the forces of two universes meet; and yet this may be nothing but his subjective way of feeling things, a mood of his own fancy, in spite of the effects produced. I now turn to my second question: What is the objective 'truth' of their content?²¹

The part of the content concerning which the question of truth most pertinently arises is that 'MORE of the same quality' with which our own higher self appears in the experience to come into harmonious working relation. Is such a 'more' merely our own notion, or does it really exist? If so, in what shape does it exist? Does it act, as well as exist? And in what form should we conceive of that 'union' with it of which religious geniuses are so convinced?

It is in answering these questions that the various theologies perform their theoretic work, and that their divergencies most come to light. They all agree that the 'more' really exists;

though some of them hold it to exist in the shape of a personal god or gods, while others are satisfied to conceive it as a stream of ideal tendency embedded in the eternal structure of the world. They all agree, moreover, that it acts as well as exists, and that something really is effected for the better when you throw your life into its hands. It is when they treat of the experience of 'union' with it that their speculative differences appear most clearly. Over this point pantheism and theism, nature and second birth, works and grace and karma, immortality and reincarnation, rationalism and mysticism, carry on inveterate disputes.

At the end of my lecture on Philosophy²² I held out the notion that an impartial science of religions might sift out from the midst of their discrepancies a common body of doctrine which she might also formulate in terms to which physical science need not object. This, I said, she might adopt as her own reconciling hypothesis, and recommend it for general belief. I also said that in my last lecture I should have to try my own hand at framing such an hypothesis.

The time has now come for this attempt. Who says 'hypothesis' renounces the ambition to be coercive in his arguments. The most I can do is, accordingly, to offer something that may fit the facts so easily that your scientific logic will find no plausible pretext for vetoing your impulse to welcome it as true.

The 'more,' as we called it, and the meaning of our 'union' with it, form the nucleus of our inquiry. Into what definite description can these words be translated, and for what definite facts do they stand? It would never do for us to place ourselves offhand at the position of a particular theology, the Christian theology, for example, and proceed immediately to define the 'more' as Jehovah, and the 'union' as his imputation to us of the righteousness of Christ. That would be unfair to other religions, and, from our present standpoint at least, would be an over-belief.

We must begin by using less particularized terms; and, since one of the duties of the science of religions is to keep religion in connection with the rest of science, we shall do well to seek first of all a way of describing the 'more,' which psychologists may also recognize as real. The *subconscious self* is nowadays a well-accredited psychological entity; and I believe that in it we have exactly the mediating term required. Apart from all religious considerations, there is actually and literally more life in our total soul than we are at any time aware of. The exploration of the transmarginal field has hardly yet been seriously undertaken, but what Mr. Myers said in 1892 in his essay on the Subliminal Consciousness²³ is as true as when it was first written: "Each of us is in reality an abiding psychical entity far more extensive than he knows- an individuality which can never express itself completely through any corporeal manifestation. The Self manifests through the organism; but there is always some part of the Self unmanifested; and always, as it seems, some power of organic expression in abeyance or reserve." Much of the content

of this larger background against which our conscious being stands out in relief is insignificant. Imperfect memories, silly jingles, inhibitive timidities, 'dissolutive' phenomena of various sorts, as Myers calls them, enter into it for a large part. But in it many of the performances of genius seem also to have their origin; and in our study of conversion, of mystical experiences, and of prayer, we have seen how striking a part invasions from this region play in the religious life.

Let me then propose, as an hypothesis, that whatever it may be on its *farther* side, the 'more' with which in religious experience we feel ourselves connected is on its *hither* side the subconscious continuation of our conscious life. Starting thus with a recognized psychological fact as our basis, we seem to preserve a contact with 'science' which the ordinary theologian lacks. At the same time the theologian's contention that the religious man is moved by an external power is vindicated, for it is one of the peculiarities of invasions from the subconscious region to take on objective appearances, and to suggest to the Subject an external control. In the religious life the control is felt as 'higher'; but since on our hypothesis it is primarily the higher faculties of our own hidden mind which are controlling, the sense of union with the power beyond us is a sense of something, not merely apparently, but literally true.

This doorway into the subject seems to me the best one for a science of religions, for it mediates between a number of different points of view. Yet it is only a doorway, and difficulties present themselves as soon as we step through it, and ask how far our transmarginal consciousness carries us if we follow it on its remoter side. Here the overbeliefs begin: here mysticism and the conversion-rapture and Vedantism and transcendental idealism bring in their monistic interpretations²⁵ and tell us that the finite self rejoins the absolute self, for it was always one with God and identical with the soul of the world.²⁶ Here the prophets of all the different religions come with their visions, voices, raptures, and other openings, supposed by each to authenticate his own peculiar faith.

Those of us who are not personally favored with such specific revelations must stand outside of them altogether and, for the present at least, decide that, since they corroborate incompatible theological doctrines, they neutralize one another and leave no fixed result. If we follow any one of them, or if we follow philosophical theory and embrace monistic pantheism on non-mystical grounds, we do so in the exercise of our individual freedom, and build out our religion in the way most congruous with our personal susceptibilities. Among these susceptibilities intellectual ones play a decisive part. Although the religious question is primarily a question of life, of living or not living in the higher union which opens itself to us as a gift, yet the spiritual excitement in which the gift appears a real one will often fail to be aroused in an individual until certain particular intellectual beliefs or ideas which, as we say, come home to him, are touched.²⁷ These ideas will thus be

essential to that individual's religion;- which is as much as to say that over-beliefs in various directions are absolutely indispensable, and that we should treat them with tenderness and tolerance so long as they are not intolerant themselves. As I have elsewhere written, the most interesting and valuable things about a man are usually his overbeliefs.

Disregarding the over-beliefs, and confining ourselves to what is common and generic, we have in *the fact that the conscious person is continuous with a wider self through which saving experiences come*, ²⁸ a positive content of religious experience which, it seems to me, *is literally and objectively true as far as it goes.* If I now proceed to state my own hypothesis about the farther limits of this extension of our personality, I shall be offering my own over-belief- though I know it will appear a sorry under-belief to some of you- for which I can only bespeak the same indulgence which in a converse case I should accord to yours.

The further limits of our being plunge, it seems to me, into an altogether other dimension of existence from the sensible and merely 'understandable' world. Name it the mystical region, or the supernatural region, whichever you choose. So far as our ideal impulses originate in this region (and most of them do originate in it, for we find them possessing us in a way for which we cannot articulately account), we belong to it in a more intimate sense than that in which we belong to the visible world, for we belong in the most intimate sense wherever our ideals belong. Yet the unseen region in question is not merely ideal, for it produces effects in this world. When we commune with it, work is actually done upon our finite personality, for we are turned into new men, and consequences in the way of conduct follow in the natural world upon our regenerative change.²⁹ But that which produces effects within another reality must be termed a reality itself, so I feel as if we had no philosophic excuse for calling the unseen or mystical world unreal.

God is the natural appellation, for us Christians at least, for the supreme reality, so I will call this higher part of the universe by the name of God. We and God have business with each other; and in opening ourselves to his influence our deepest destiny is fulfilled. The universe, at those parts of it which our personal being constitutes, takes a turn genuinely for the worse or for the better in proportion as each one of us fulfills or evades God's demands. As far as this goes I probably have you with me, for I only translate into schematic language what I may call the instinctive belief of mankind: God is real since he produces real effects.

The real effects in question, so far as I have as yet admitted them, are exerted on the personal centres of energy of the various subjects, but the spontaneous faith of most of the subjects is that they embrace a wider sphere than this. Most religious men believe (or 'know,' if they be mystical) that not only they themselves, but the whole universe of beings to whom the God is present, are secure in his parental hands. There is a sense, a dimension, they are sure, in which we are *all* saved, in spite of the gates of hell and all

adverse terrestrial appearances. God's existence is the guarantee of an ideal order that shall be permanently preserved. This world may indeed, as science assures us, some day burn up or freeze; but if it is part of his order, the old ideals are sure to be brought elsewhere to fruition, so that where God is, tragedy is only provisional and partial, and shipwreck and dissolution are not the absolutely final things. Only when this farther step of faith concerning God is taken, and remote objective consequences are predicted, does religion, as it seems to me, get wholly free from the first immediate subjective experience, and bring a *real hypothesis* into play. A good hypothesis in science must have other properties than those of the phenomenon it is immediately invoked to explain, otherwise it is not prolific enough. God, meaning only what enters into the religious man's experience of union, falls short of being an hypothesis of this more useful order. He needs to enter into wider cosmic relations in order to justify the subject's absolute confidence and peace.

That the God with whom, starting from the hither side of our own extra-marginal self, we come at its remoter margin into commerce should be the absolute world-ruler, is of course a very considerable over-belief. Over-belief as it is, though, it is an article of almost every one's religion. Most of us pretend in some way to prop it upon our philosophy, but the philosophy itself is really propped upon this faith. What is this but to say that Religion, in her fullest exercise of function, is not a mere illumination of facts already elsewhere given, not a mere passion, like love, which views things in a rosier light. It is indeed that, as we have seen abundantly. But it is something more, namely, a postulator of new *facts* as well. The world interpreted religiously is not the materialistic world over again, with an altered expression; it must have, over and above the altered expression, a *natural constitution* different at some point from that which a materialistic world would have. It must be such that different events can be expected in it, different conduct must be required.

This thoroughly 'pragmatic' view of religion has usually been taken as a matter of course by common men. They have interpolated divine miracles into the field of nature, they have built a heaven out beyond the grave. It is only transcendentalist metaphysicians who think that, without adding any concrete details to Nature, or subtracting any, but by simply calling it the expression of absolute spirit, you make it more divine just as it stands. I believe the pragmatic way of taking religion to be the deeper way. It gives it body as well as soul, it makes it claim, as everything real must claim, some characteristic realm of fact as its very own. What the more characteristically divine facts are, apart from the actual inflow of energy in the faith-state and the prayer-state, I know not. But the over-belief on which I am ready to make my personal venture is that they exist. The whole drift of my education goes to persuade me that the world of our present consciousness is only one out of many worlds of consciousness that exist, and that those other worlds must contain experiences which have a meaning for our life also; and that although in the main their experiences and those of this world keep discrete, yet the two become continuous at

certain points, and higher energies filter in. By being faithful in my poor measure to this over-belief, I seem to myself to keep more sane and true. I can, of course, put myself into the sectarian scientist's attitude, and imagine vividly that the world of sensations and of scientific laws and objects may be all. But whenever I do this, I hear that inward monitor of which W. K. Clifford once wrote, whispering the word 'bosh!' Humbug is humbug, even though it bear the scientific name, and the total expression of human experience, as I view it objectively, invincibly urges me beyond the narrow scientific bounds. Assuredly, the real world is of a different temperament,- more intricately built than physical science allows. So my objective and my subjective conscience both hold me to the over-belief which I express. Who knows whether the faithfulness of individuals here below to their own poor over-beliefs may not actually help God in turn to be more effectively faithful to his own greater tasks?

Postscript

In writing my concluding lecture I had to aim so much at simplification that I fear that my general philosophic position received so scant a statement as hardly to be intelligible to some of my readers. I therefore add this epilogue, which must also be so brief as possibly to remedy but little the defect. In a later work I may be enabled to state my position more amply and consequently more clearly.

Originality cannot be expected in a field like this, where all the attitudes and tempers that are possible have been exhibited in literature long ago, and where any new writer can immediately be classed under a familiar head. If one should make a division of all thinkers into naturalists and supernaturalists, I should undoubtedly have to go, along with most philosophers, into the supernaturalist branch. But there is a crasser and a more refined supernaturalism, and it is to the refined division that most philosophers at the present day belong. If not regular transcendental idealists, they at least obey the Kantian direction enough to bar out ideal entities from interfering casually in the course of phenomenal events. Refined supernaturalism is universalistic supernaturalism; for the 'crasser' variety 'piecemeal' supernaturalism would perhaps be the better name. It went with that older theology which to-day is supposed to reign only among uneducated people, or to be found among the few belated professors of the dualisms which Kant is thought to have displaced. It admits miracles and providential leadings, and finds no intellectual difficulty in mixing the ideal and the real worlds together by interpolating influences from the ideal region among the forces that causally determine the real world's details. In this the refined supernaturalists think that it muddles disparate dimensions of existence. For them the world of the ideal has no efficient causality, and never bursts into the world of phenomena at particular points. The ideal world, for them, is not a world of facts, but only of the meaning of facts; it is a point of view for judging facts. It appertains to a different '-ology,' and inhabits a different dimension of being altogether from that in which existential propositions obtain. It cannot get down upon the flat level of experience and interpolate

itself piecemeal between distinct portions of nature, as those who believe, for example, in divine aid coming in response to prayer, are bound to think it must.

Notwithstanding my own inability to accept either popular Christianity or scholastic theism, I suppose that my belief that in communion with the Ideal new force comes into the world, and new departures are made here below, subjects me to being classed among the supernaturalists of the piecemeal or crasser type. Universalistic supernaturalism surrenders, it seems to me, too easily to naturalism. It takes the facts of physical science at their face-value, and leaves the laws of life just as naturalism finds them, with no hope of remedy, in case their fruits are bad. It confines itself to sentiments about life as a whole, sentiments which may be admiring and adoring, but which need not be so, as the existence of systematic pessimism proves. In this universalistic way of taking the ideal world, the essence of practical religion seems to me to evaporate. Both instinctively and for logical reasons, I find it hard to believe that principler, can exist which make no difference in facts.³¹ But all facts are particular facts, and the whole interest of the question of God's existence seems to me to lie in the consequences for particulars which that existence may be expected to entail. That no concrete particular of experience should alter its complexion in consequence of a God being there seems to me an incredible proposition, and yet it is the thesis to which (implicitly at any rate) refined supernaturalism seems to cling. It is only with experience en bloc, it says, that the Absolute maintains relations. It condescends to no transactions of detail.

I am ignorant of Buddhism and speak under correction, and merely in order the better to describe my general point of view; but as I apprehend the Buddhistic doctrine of Karma, I agree in principle with that. All supernaturalists admit that facts are under the judgment of higher law; but for Buddhism as I interpret it, and for religion generally so far as it remains unweakened by transcendentalistic metaphysics, the word 'judgment' here means no such bare academic verdict or platonic appreciation as it means in Vedantic or modern absolutist systems; it carries, on the contrary, *execution* with it, is in rebus as well as post rem, and operates 'causally' as partial factor in the total fact. The universe becomes a gnosticism³² pure and simple on any other terms. But this view that judgment and execution go together is that of the crasser supernaturalist way of thinking, so the present volume must on the whole be classed with the other expressions of that creed.

I state the matter thus bluntly, because the current of thought in academic circles runs against me, and I feel like a man who must set his back against an open door quickly if he does not wish to see it closed and locked. In spite of its being so shocking to the reigning intellectual tastes, I believe that a candid consideration of piecemeal supernaturalism and a complete discussion of all its metaphysical bearings will show it to be the hypothesis by which the largest number of legitimate requirements are met. That of course would be a

program for other books than this; what I now say sufficiently indicates to the philosophic reader the place where I belong.

If asked just where the differences in fact which are due to God's existence come in, I should have to say that in general I have no hypothesis to offer beyond what the phenomenon of 'prayerful communion,' especially when certain kinds of incursion from the subconscious region take part in it, immediately suggests. The appearance is that in this phenomenon something ideal, which in one sense is part of ourselves and in another sense is not ourselves, actually exerts an influence, raises our centre of personal energy, and produces regenerative effects unattainable in other ways. If, then, there be a wider world of being than that of our every-day consciousness, if in it there be forces whose effects on us are intermittent, if one facilitating condition of the effects be the openness of the 'subliminal' door, we have the elements of a theory to which the phenomena of religious life lend plausibility. I am so impressed by the importance of these phenomena that I adopt the hypothesis which they so naturally suggest. At these places at least, I say, it would seem as though transmundane energies, God, if you will, produced immediate effects within the natural world to which the rest of our experience belongs.

The difference in natural 'fact' which most of us would assign as the first difference which the existence of a God ought to make would, I imagine, be personal immortality. Religion, in fact, for the great majority of our own race *means* immortality, and nothing else. God is the producer of immortality; and whoever has doubts of immortality is written down as an atheist without farther trial. I have said nothing in my lectures about immortality or the belief therein, for to me it seems a secondary point. If our ideals are only cared for in 'eternity,' I do not see why we might not be willing to resign their care to other hands than ours. Yet I sympathize with the urgent impulse to be present ourselves, and in the conflict of impulses, both of them so vague yet both of them noble, I know not how to decide. It seems to me that it is eminently a case for facts to testify. Facts, I think, are yet lacking to prove 'spirit-return,' though I have the highest respect for the patient labors of Messrs. Myers, Hodgson, and Hyslop, and am somewhat impressed by their favorable conclusions. I consequently leave the matter open, with this brief word to save the reader from a possible perplexity as to why immortality got no mention in the body of this book.

The ideal power with which we feel ourselves in connection, the 'God' of ordinary men, is, both by ordinary men and by philosophers, endowed with certain of those metaphysical attributes which in the lecture on philosophy I treated with such disrespect. He is assumed as a matter of course to be 'one and only' and to be 'infinite'; and the notion of many finite gods is one which hardly any one thinks it worth while to consider, and still less to uphold. Nevertheless, in the interests of intellectual clearness, I feel bound to say that religious experience, as we have studied it, cannot be cited as unequivocally supporting the infinitist belief. The only thing that it unequivocally testifies to is that we can experience union with *something* larger than ourselves and in that union find our

greatest peace. Philosophy, with its passion for unity, and mysticism with its monoideistic bent, both 'pass to the limit' and identify the something with a unique God who is the all-inclusive soul of the world. Popular opinion, respectful to their authority, follows the example which they set.

Meanwhile the practical needs and experiences of religion seem to me sufficiently met by the belief that beyond each man and in a fashion continuous with him there exists a larger power which is friendly to him and to his ideals. All that the facts require is that the power should be both other and larger than our conscious selves. Anything larger will do, if only it be large enough to trust for the next step. It need not be infinite, it need not be solitary. It might conceivably even be only a larger and more godlike self, of which the present self would then be but the mutilated expression, and the universe might conceivably be a collection of such selves, of different degrees of inclusiveness, with no absolute unity realized in it at all.³³ Thus would a sort of polytheism return upon us- a polytheism which I do not on this occasion defend, for my only aim at present is to keep the testimony of religious experience clearly within its proper bounds. [Compare Lectures VI and VII above.]

Upholders of the monistic view will say to such a polytheism (which, by the way, has always been the real religion of common people, and is so still to-day) that unless there be one all-inclusive God, our guarantee of security is left imperfect. In the Absolute, and in the Absolute only, all is saved. If there be different gods, each caring for his part, some portion of some of us might not be covered with divine protection, and our religious consolation would thus fail to be complete. It goes back to what was said in Lectures VI and VII, about the possibility of there being portions of the universe that may irretrievably be lost. Common sense is less sweeping in its demands than philosophy or mysticism have been wont to be, and can suffer the notion of this world being partly saved and partly lost. The ordinary moralistic state of mind makes the salvation of the world conditional upon the success with which each unit does its part. Partial and conditional salvation is in fact a most familiar notion when taken in the abstract, the only difficulty being to determine the details. Some men are even disinterested enough to be willing to be in the unsaved remnant as far as their persons go, if only they can be persuaded that their cause will prevail- all of us are willing, whenever our activityexcitement rises sufficiently high. I think, in fact, that a final philosophy of religion will have to consider the pluralistic hypothesis more seriously than it has hitherto been willing to consider it. For practical life at any rate, the chance of salvation is enough. No fact in human nature is more characteristic than its willingness to live on a chance. The existence of the chance makes the difference, as Edmund Gurney says, between a life of which the keynote is resignation and a life of which the keynote is hope.³⁴ But all these statements are unsatisfactory from their brevity, and I can only say that I hope to return to the same questions in another book.

Endnotes

- 1. From this point of view, the contrasts between the healthy and the morbid mind, and between the once-born and the twice-born types, of which I spoke in earlier lectures cease to be the radical antagonisms which many think them. The twice-born look down upon the rectilinear consciousness of life of the once-born as being 'mere morality,' and not properly religion. "Dr. Channing," an orthodox minister is reported to have said, "is excluded from the highest form of religious life by the extraordinary rectitude of his character." It is indeed true that the outlook upon life of the twice-born-holding as it does more of the element of evil in solution- is the wider and completer. The 'heroic' or 'solemn' way in which life comes to them is a 'higher synthesis' into which healthymindedness and morbidness both enter and combine. Evil is not evaded, but sublated in the higher religious cheer of these persons. But the final consciousness which each type reaches of union with the divine has the same practical significance for the individual; and individuals may well be allowed to get to it by the channels which lie most open to their several temperaments. In the cases which were quoted in Lecture IV, of the mind-cure form of healthy-mindedness, we found abundant examples of regenerative process. The severity of the crisis in this process is a matter of degree. How long one shall continue to drink the consciousness of evil, and when one shall begin to short-circuit and get rid of it, are also matters of amount and degree, so that in many instances it is quite arbitrary whether we class the individual a once-born or a twice-born subject.
- 2. Compare, e.g., the quotation from Renan in Lecture II, above.
- 3. 'Prayerful' taken in the broader sense explained above in Lecture XIX.
- 4. How was it ever conceivable, we ask, that a man like Christian Wolff, in whose dry-asdust head all the learning of the early eighteenth century was concentrated, should have preserved such a baby-like faith in the personal and human character of Nature as to expound her operations as he did in his work on the uses of natural things? This, for example, is the account he gives of the sun and its utility:

"We see that God has created the sun to keep the changeable conditions on the earth in such an order that living creatures, men and beasts, may inhabit its surface. Since men are the most reasonable of creatures, and able to infer God's invisible being from the contemplation of the world, the sun in so far forth contributes to the primary purpose of creation: without it the race of man could not be preserved or continued.... The sun makes daylight, not only on our earth, but also on the other planets; and daylight is of the utmost utility to us; for by its means we can commodiously carry on those occupations which in the night-time would either be quite impossible, or at any rate impossible without our going to the expense of artificial light. The beasts of the field can find food by day which they would not be able to find at night. Moreover we owe it to the sunlight

that we are able to see everything that is on the earth's surface, not only near by, but also at a distance, and to recognize both near and far things according to their species, which again is of manifold use to us not only in the business necessary to human life, and when we are traveling, but also for the scientific knowledge of Nature, which knowledge for the most part depends on observations made with the help of sight, and, without the sunshine, would have been impossible. If any one would rightly impress on his mind the great advantages which he derives from the sun, let him imagine himself living through only one mouth, and see how it would be with all his undertakings, if it were not day but night. He would then be sufficiently convinced out of his own experience, especially if he had much work to carry on in the street or in the fields.... From the sun we learn to recognize when it is midday, and by knowing this point of time exactly, we can set our clocks right, on which account astronomy owes much to the sun.... By help of the sun one can find the meridian.... But the meridian is the basis of our sun-dials, and generally speaking, we should have no sun-dials if we had no sun." Vernunftige Gedanken von den Absichten der naturlichen Dinge, 1782, pp. 74-84.

Or read the account of God's beneficence in the institution of "the great variety throughout the world of men's faces, voices, and handwriting," given in Derham's Physico-theology, a book that had much vogue in the eighteenth century. "Had Man's body," says Dr. Derham, "been made according to any of the Atheistical Schemes, or any other Method than that of the infinite Lord of the World, this wise Variety would never have been: but Men's Faces would have been cast in the same, or not a very different Mould, their Organs of Speech would have sounded the same or not so great a Variety of Notes; and the same Structure of Muscles and Nerves would have given the Hand the same Direction in Writing. And in this Case, what Confusion, what Disturbance, what Mischiefs would the world eternally have lain under! No Security could have been to our persons; no Certainty, no Enjoyment of our Possessions; no Justice between Man and Man; no Distinction between Good and Bad, between Friends and Foes, between Father and Child, Husband and Wife, Male or Female; but all would have been turned topsyturvy, by being exposed to the Malice of the Envious and ill-Natured, to the Fraud and Violence of Knaves and Robbers, to the Forgeries of the crafty Cheat, to the Lusts of the Effeminate and Debauched, and what not! Our Courts of Justice can abundantly testify the dire Effects of Mistaking Men's Faces, of counterfeiting their Hands, and forging Writings. But now as the infinitely wise Creator and Ruler hath ordered the Matter, every man's Face can distinguish him in the Light, and his Voice in the Dark; his Hand-writing can speak for him though absent, and be his Witness, and secure his Contracts in future Generations. A manifest as well as admirable Indication of the divine Superintendence and Management.

"A God so careful as to make provision even for the unmistakable signing of bank checks and deeds was a deity truly after the heart of eighteenth century Anglicanism.

I subjoin, omitting the capitals, Derham's 'Vindication of God by the Institution of Hills and Valleys,' and Wolff's altogether culinary account of the Institution of Water:

"The uses," says Wolff, "which water serves in human life are plain to see and need not be described at length. Water is a universal drink of man and beasts. Even though men have made themselves drinks that are artificial, they could not do this without water. Beer is brewed of water and malt, and it is the water in it which quenches thirst. Wine is prepared from grapes, which could never have grown without the help of water; and the same is true of those drinks which in England and other places they produce from fruit.... Therefore since God so planned the world that men and beasts should live upon it and find there everything required for their necessity and convenience, he also made water as one means whereby to make the earth into so excellent a dwelling. And this is all the more manifest when we consider the advantages which we obtain from this same water for the cleaning of our household utensils, of our clothing, and of other matters.... When one goes into a grinding-mill one sees that the grindstone must always be kept wet and then one will get a still greater idea of the use of water."

Of the hills and valleys, Derham, after praising their beauty, discourses as follows: "Some constitutions are indeed of so happy a strength, and so confirmed an health, as to be indifferent to almost any place or temperature of the air. But then others are so weakly and feeble, as not to be able to bear one, but can live comfortably in another place. With some the more subtle and finer air of the hills doth best agree, who are languishing and dying in the feculent and grosser air of great towns, or even the warmer and vaporous air of the valleys and waters. But contrariwise, others languish on the hills, and grow lusty and strong in the warmer air of the valleys.

"So that this opportunity of shifting our abode from the hills to the vales, is an admirable easement, refreshment, and great benefit to the valetudinarian, feeble part of mankind; affording those an easy and comfortable life, who would otherwise live miserably, languish, and pine away.

"To this salutary conformation of the earth we may add another great convenience of the hills, and that is affording commodious places for habitation, serving (as an eminent author wordeth it) as screens to keep off the cold and nipping blasts of the northern and easterly winds, and reflecting the benign and cherishing sunbeams, and so rendering our habitations both more comfortable and more cheerly in winter.

"Lastly, it is to the hills that the fountains owe their rise and the rivers their conveyance, and consequently those vast masses and lofty piles are not, as they are charged, such rude and useless excrescences of our ill-formed globe; but the admirable tools of nature, contrived and ordered by the infinite Creator, to do one of its most useful works. For, was the surface of the earth even and level, and the middle parts of its islands and continents not mountainous and high as now it is, it is most certain there could be no descent for the rivers, no conveyance for the waters; but, instead of gliding along those gentle declivities which the higher lands now afford them quite down to the sea, they would stagnate and perhaps stink, and also drown large tracts of land.

"[Thus] the hills and vales, though to a peevish and weary traveler they may seem incommodious and troublesome, yet are a noble work of the great Creator, and wisely appointed by him for the good of our sublunary world."

5. Until the seventeenth century this mode of thought prevailed. One need only recall the dramatic treatment even of mechanical questions by Aristotle, as, for example, his explanation of the power of the lever to make a small weight raise a larger one. This is due, according to Aristotle, to the generally miraculous character of the circle and of all circular movement. The circle is both convex and concave; it is made by a fixed point and a moving line, which contradict each other; and whatever moves in a circle moves in opposite directions. Nevertheless, movement in a circle is the most 'natural' movement; and the long arm of the lever, moving, as it does, in the larger circle, has the greater amount of this natural motion, and consequently requires the lesser force. Or recall the explanation by Herodotus of the position of the sun in winter: It moves to the south because of the cold which drives it into the warm parts of the heavens over Libya. Or listen to Saint Augustine's speculations: "Who gave to chaff such power to freeze that it preserves snow buried under it, and such power to warm that it ripens green fruit? Who can explain the strange properties of fire itself, which blackens all that it burns, though itself bright, and which, though of the most beautiful colors, discolors almost all that it touches and feeds upon, and turns blazing fuel into grimy cinders?... Then what wonderful properties do we find in charcoal, which is so brittle that a light tap breaks it, and a alight pressure pulverizes it, and yet is so strong that no moisture rots it, nor any time causes it to decay." City of God, book xxi. ch. iv.

Such aspects of things as these, their naturalness and unnaturalness, the sympathies and antipathies of their superficial qualities, their eccentricities, their brightness and strength and destructiveness, were inevitably the ways in which they originally fastened our attention.

If you open early medical books, you will find sympathetic magic invoked on every page. Take, for example, the famous vulnerary ointment attributed to Paracelaus. For this there

were a variety of receipts, including usually human fat, the fat of either a bull, a wild boar, or a bear; powdered earthworms, the usnia, or mossy growth on the weathered skull of a hanged criminal, and other materials equally unpleasant- the whole prepared under the planet Venus if possible, but never under Mars or Saturn. Then, if a splinter of wood, dipped in the patient's blood, or the bloodstained weapon that wounded him, be immersed in this ointment, the wound itself being tightly bound up, the latter infallibly gets well,- I quote now Van Helmont's account,- for the blood on the weapon or splinter, containing in it the spirit of the wounded man, is roused to active excitement by the contact of the ointment, whence there results to it a full commission or power to cure its cousin-german, the blood in the patient's body. This it does by sucking out the dolorous and exotic impression from the wounded part. But to do this it has to implore the aid of the bull's fat, and other portions of the unguent. The reason why bull's fat is so powerful is that the bull at the time of slaughter is full of secret reluctancy and vindictive murmurs, and therefore dies with a higher flame of revenge about him than any other animal. And thus we have made it out, says this author, that the admirable efficacy of the ointment ought to be imputed, not to any auxiliary concurrence of Satan, but simply to the energy of the posthumous character of Revenge remaining firmly impressed upon the blood and concreted fat in the unguent. J.B. VAN HELMONT: A Ternary of Paradoxes, translated by WALTER CHARLETON, London, 1650.- I much abridge the original in my citations.

The author goes on to prove by the analogy of many other natural facts that this sympathetic action between things at a distance is the true rationale of the case. "If," he says, "the heart of a horse, slain by a witch, taken out of the yet reeking carcase, be impaled upon an arrow and roasted, immediately the whole witch becomes tormented with the insufferable pains and cruelty of the fire, which could by no means happen unless there preceded a conjunction of the spirit of the witch with the spirit of the horse. In the reeking and yet panting heart, the spirit of the witch is kept captive, and the retreat of it prevented by the arrow transfixed. Similarly hath not many a murdered carcase at the coroner's inquest suffered a fresh hemorrhage or cruentation at the presence of the assassin?- the blood being, as in a furious fit of anger, enraged and agitated by the impress of revenge conceived against the murderer, at the instant of the soul's compulsive exile from the body. So, if you have dropsy, gout, or jaundice, by including some of your warm blood in the shell and white of an egg, which, exposed to a gentle heat, and mixed with a bait of flesh, you shall give to a hungry dog or hog, the disease shall instantly pass from you into the animal, and leave you entirely. And similarly again, if you burn some of the milk either of a cow or of a woman, the gland from which it issued will dry up. A gentleman at Brussels had his nose mowed off in a combat, but the celebrated surgeon Tagliacozzus digged a new nose for him out of the skin of the arm of a porter at Bologna. About thirteen months after his return to his own country, the engrafted nose grew cold, putrefied, and in a few days dropped off, and it was then discovered that the porter had

expired, near about the same punctilio of time. There are still at Brussels eye-witnesses of this occurrence," says Van Helmont; and adds, "I pray what is there in this of superstition or of exalted imagination?"

Modern mind-cure literature- the works of Prentice Mulford, for example- of sympathetic magic.

- 6. Compare Lotze's doctrine that the only meaning we can attach to the notion of a thing as it is 'in itself' is by conceiving it as it is for itself; i. e., as a piece of full experience with a private sense of 'pinch' or inner activity of some sort going with it.
- 7. Even the errors of fact may possibly turn out not to be as wholesale as the scientist assumes. We saw in Lecture IV how the religious conception of the universe seems to many mind-curers 'verified' from day to day by their experience of fact. 'Experience of fact' is a field with so many things in it that the sectarian scientist, methodically declining, as he does, to recognize such 'facts' as mind-curers and others like them experience, otherwise than by such rude heads of classification as 'bosh,' 'rot,' 'folly,' certainly leaves out a mass of raw fact which, save for the industrious interest of the religious in the more personal aspects of reality, would never have succeeded in getting itself recorded at all. We know this to be true already in certain cases; it may, therefore, be true in others as well. Miraculous healings have always been part of the supernaturalist stock in trade, and have always been dismissed by the scientist as figments of the imagination. But the scientist's tardy education in the facts of hypnotism has recently given him an apperceiving mass for phenomena of this order, and he consequently now allows that the healings may exist, provided you expressly call them effects of 'suggestion.' Even the stigmata of the cross on Saint Francis's hands and feet may on these terms not be a fable. Similarly, the timehonored phenomenon of diabolical possession is on the point of being admitted by the scientist as a fact, now that he has the name of 'hystero-demonopathy' by which to apperceive it. No one can foresee just how far this legitimation of occultist phenomena under newly found scientist titles may proceed- even 'prophecy,' even 'levitation,' might creep into the pale.

Thus the divorce between scientist facts and religious facts may not necessarily be as eternal as it at first sight seems, nor the personalism and romanticism of the world, as they appeared to primitive thinking, be matters so irrevocably outgrown. The final human opinion may, in short, in some manner now impossible to foresee, revert to the more personal style, just as any path of progress may follow a spiral rather than a straight line. If this were so, the rigorously impersonal view of science might one day appear as having been a temporarily useful eccentricity rather than the definitively triumphant position which the sectarian scientist at present so confidently announces it to be.

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- 8. Hume's criticism has banished causation from the world of physical objects, and 'Science' is absolutely satisfied to define cause in terms of concomitant change- read Mach, Pearson, Ostwald. The 'original' of the notion of causation is in our inner personal experience, and only there can causes in the old-fashioned sense be directly observed and described.
- 9. When I read in a religious paper words like these: "Perhaps the best thing we can say of God is that he is the Inevitable Inference," I recognize the tendency to let religion evaporate in intellectual terms. Would martyrs have sung in the flames for a mere inference, however inevitable it might be? Original religious men, like Saint Francis, Luther, Behmen, have usually been enemies of the intellect's pretension to meddle with religious things. Yet the intellect, everywhere invasive, shows everywhere its shallowing effect. See how the ancient spirit of Methodism evaporates under those wonderfully able rationalistic booklets (which every one should read) of a philosopher like Professor Bowne (The Christian Revelation, The Christian Life, The Atonement: Cincinnati and New York, 1898, 1899, 1900). See the positively expulsive purpose of philosophy properly so called:

"Religion," writes M. Vacherot (La Religion, Paris, 1869, pp. 313, 436, et passim), "answers to a transient state or condition, not to a permanent determination of human nature, being merely an expression of that stage of the human mind which is dominated by the imagination.... Christianity has but a single possible final heir to its estate, and that is scientific philosophy."

In a still more radical vein, Professor Ribot (Psychologie des Sentiments, p. 310) describes the evaporation of religion. He sums it up in a single formula- the ever-growing predominance of the rational intellectual element, with the gradual fading out of the emotional element, this latter tending to enter into the group of purely intellectual sentiments. "Of religions sentiment properly so called, nothing survives at last save a vague respect for the unknowable x which is a last relic of the fear, and a certain attraction towards the ideal, which is a relic of the love, that characterized the earlier periods of religious growth. To state this more simply, religion tends to turn into religious philosophy.- These are psychologically entirely different things, the one being a theoretic construction of ratiocination, whereas the other is the living work of a group of persons,

or of a great inspired leader, calling into play the entire thinking and feeling organism of man."

I find the same failure to recognize that the stronghold of religion lies in individuality in attempts like those of Professor Baldwin (Mental Development, Social and Ethical Interpretations, ch. x.) and Mr. H. R. Marshall (Instinct and Reason, chaps. viii. to xii.) to make it a purely 'conservative social force.'

- 10. American Journal of Psychology, vii. 345.
- 11. Above, Lecture VIII.
- 12. Above, Lectures VI and VII.
- 13. Above, Lectures XVI and XVII.
- 14. Example: Henri Perreyve writes to Gratry: "I do not know how to deal with the happiness which you aroused in me this morning. It overwhelms me; I want to do something, yet I can do nothing and am fit for nothing.... I would fain do great things." Again, after an inspiring interview, he writes: "I went homewards, intoxicated with joy, hope, and strength. I wanted to feed upon my happiness in solitude, far from all men. It was late; but, unheeding that, I took a mountain path and went on like a madman, looking at the heavens, regardless of earth. Suddenly an instinct made me draw hastily back- I was on the very edge of a precipice, one step more and I must have fallen. I took fright and gave up my nocturnal promenade." A. GRATRY: Henri Perreyve, London, 1872, pp. 92, 89.

This primacy, in the faith-state, of vague expansive impulse over direction is well expressed in Walt Whitman's lines (Leaves of Grass, 1872, p. 190):

"O to confront night, storms, hunger, ridicule, accidents, rebuffs, as the trees and animals do...

Dear Camerado! I confess I have urged you onward with me, an dstill urge you, without the least idea what is our destination,

Or whether we shall be victorious, or utterly quell'd and defeated."

This readiness for great things, and this sense that the world by its importance, wonderfulness, etc., is apt for their production, would seem to be the undifferentiated germ of all the higher faiths. Trust in our own dreams of ambition, or in our country's expansive destinies, and faith in the providence of God, all have their source in that onrush of our sanguine impulses, and in that sense of the exceedingness of the possible over the real.

15. Compare LEUBA: Loc. Cit., pp. 346-349.

- 16. The Contents of Religious Consciousness, in The Monist, xi. 536, July, 1901.
- 17. Loc. cit., pp. 571, 572, abridged. See, also, this writer's extraordinarily true criticism of the notion that religion primarily seeks to solve the intellectual mystery of the world. Compare what W. BENDER says (in his Wesen der Religion, Bonn, 1888, pp. 85, 38): "Not the question about God, and not the inquiry into the origin and purpose of the world is religion, but the question about Man. All religious views of life are anthropocentric." "Religion is that activity of the human impulse towards self-preservation by means of which Man seeks to carry his essential vital purposes through against the adverse pressure of the world by raising himself freely towards the world's ordering and governing powers when the limits of his own strength are reached." The whole book is little more than a development of these words.
- 18. Remember that for some men it arrives suddenly, for others gradually, whilst others again practically enjoy it all their life.
- 19. The practical difficulties are: 1, to 'realize the reality' of one's higher part; 2, to identify one's self with it exclusively; and 3, to identify it with all the rest of ideal being.
- 20. "When mystical activity is at its height, we find consciousness possessed by the sense of a being at once excessive and identical with the self: great enough to be God; interior enough to be me. The 'objectivity' of it ought in that case to be called excessivity, rather, or exceedingness." Récéjac: Essai sur les fondements de la conscience mystique, 1897, p. 46.
- 21. The word 'truth' is here taken to mean something additional to bare value for life, although the natural propensity of man is to believe that whatever has great value for life is thereby certified as true.
- 22. Above, Lecture XVIII.
- 23. Proceedings of the Society for Psychical Research, vol. vii. p. 305. For a full statement of Mr. Myers's views, I may refer to his posthumous work, 'Human Personality in the Light of Recent Research,' which is already announced by Messrs. Longmans, Green & Co. as being in press. Mr. Myers for the first time proposed as a general psychological problem the exploration of the subliminal region of consciousness throughout its whole extent, and made the first methodical steps in its topography by treating as a natural series a mass of subliminal facts hitherto considered only as curious isolated facts, and subjecting them to a systematized nomenclature. How important this exploration will prove, future work upon the path which Myers has opened can alone show. Compare my paper: 'Frederic Myers's Services to Psychology,' in the said Proceedings, part xlii., May, 1901.
- 24. Compare the inventory given above, Lecture XIX, and also what is said of the subconscious self in Lecture X.

25. Compare above, Lectures XVI and XVII.

26. One more expression of this belief, to increase the reader's familiarity with the notion of it:

"If this room is full of darkness for thousands of years, and you come in and begin to weep and wail, 'Oh, the darkness,' will the darkness vanish? Bring the light in, strike a match, and light comes in a moment. So what good will it do you to think all your lives, 'Oh, I have done evil, I have made many mistakes'? It requires no ghost to tell us that. Bring in the light, and the evil goes in a moment. Strengthen the real nature, build up yourselves, the effulgent, the resplendent, the ever pure, call that up in every one whom you see. I wish that every one of us had come to such a state that even when we see the vilest of human beings we can see the God within, and instead of condemning, say, 'Rise, thou effulgent One, rise thou who art always pure, rise thou birthless and deathless, rise almighty, and manifest your nature.'... This is the highest prayer that the Advaita teaches. This is the one prayer: remembering our nature."... "Why does man go out to look for a God?... It is your own heart beating, and you did not know, you were mistaking it for something external. He, nearest of the near, my own self, the reality of my own life, my body and my soul.- I am Thee and Thou art Me. That is your own nature. Assert it, manifest it. Not to become pure, you are pure already. You are not to be perfect, you are that already. Every good thought which you think or act upon is simply tearing the veil, as it were, and the purity, the Infinity, the God behind, manifests itself- the eternal Subject of everything, the eternal Witness in this universe, your own Self. Knowledge is, as it were, a lower step, a degradation. We are It already; how to know It?" SWAMI VIVEKANANDA: Addresses, No. XII., Practical Vedanta, part iv. pp. 172, 174, London, 1897; and Lectures, The Real and the Apparent Man, p. 24, abridged. -

27. For instance, here is a case where a person exposed from her birth to Christian ideas had to wait till they came to her clad in spiritistic formulas before the saving experience set in:

"For myself I can say that spiritualism has saved me. It was revealed to me at a critical moment of my life, and without it I don't know what I should have done. It has taught me to detach myself from worldly things and to place my hope in things to come. Through it I have learned to see in all men, even in those most criminal, even in those from whom I have most suffered, undeveloped brothers to whom I owed assistance, love, and forgiveness. I have learned that I must lose my temper over nothing, despise no one, and pray for all. Most of all I have learned to pray! And although I have still much to learn in this domain, prayer ever brings me more strength, consolation, and comfort. I feel more than ever that I have only made a few steps on the long road of progress; but I look at its length without dismay, for I have confidence that the day will come when all my efforts

shall be rewarded. So Spiritualism has a great place in my life, indeed it holds the first place there." Flournoy Collection.

- 28. "The influence of the Holy Spirit, exquisitely called the Comforter, is a matter of actual experience, as solid a reality as that of electro-magnetism." W. C. BROWNELL, Scribner's Magazine, vol. xxx. p. 112.
- 29. That the transaction of opening ourselves, otherwise called prayer, is a perfectly definite one for certain persons, appears abundantly in the preceding lectures. I append another concrete example to reinforce the impression on the reader's mind:

"Man can learn to transcend these limitations [of finite thought] and draw power and wisdom at will.... The divine presence is known through experience. The turning to a higher plane is a distinct act of consciousness. It is not a vague, twilight or semi-conscious experience. It is not an ecstasy; it is not a trance. It is not super-consciousness in the Vedantic sense. It is not due to self-hypnotization. It is a perfectly calm, sane, sound, rational, common-sense shifting of consciousness from the phenomena of sense-perception to the phenomena of seership, from the thought of self to a distinctively higher realm.... For example, if the lower self be nervous, anxious, tense, one can in a few moments compel it to be calm. This is not done by a word simply. Again I say, it is not hypnotism. It is by the exercise of power. One feels the spirit of peace as definitely as heat is perceived on a hot summer day. The power can be as surely used as the sun's rays can be focused and made to do work, to set fire to wood." The Higher Law, vol. iv. pp. 4, 6, Boston, August, 1901.

- 30. Transcendentalists are fond of the term 'Over-soul,' but as a rule they use it in an intellectualist sense, as meaning only a medium of communion. 'God' is a causal agent as well as a medium is communion, and that is the aspect which I wish to emphasize.
- 31. Transcendental idealism, of course, insists that its ideal world makes this difference, that facts exist. We owe it to the Absolute that we have a world of fact at all. 'A world' of fact!- that exactly is the trouble. An entire world is the smallest unit with which the Absolute can work, whereas to our finite minds work for the better ought to be done within this world, setting in at single points. Our difficulties and our ideals are all piecemeal affairs, but the Absolute can do no piecework for us; so that all the interests which our poor souls compass raise their heads too late. We should have spoken earlier, prayed for another world absolutely, before this world was born. It is strange, I have heard a friend say, to see this blind corner into which Christian thought has worked itself at last, with its God who can raise no particular weight whatever, who can help us with no private burden, and who is on the side of our enemies as much as he is on our own. Odd evolution from the God of David's psalms!

- 32. See my Will to Believe and other Essays in Popular Philosophy, 1897, p. 165.
- 33. Such a notion is suggested in my Ingersoll Lecture On Human Immortality, Boston and London, 1899.
- 34. Tertium Quid, 1887, p. 99. See also Lectures VI and VII.
- 34. Tertium Quid, 1887, p. 99. See also Lectures VI and VII.

The Structure of Scientific Revolutions

by Thomas Kuhn

IX. The Nature and Necessity of Scientific Revolutions

These remarks permit us at last to consider the problems that provide this essay with its title. What are scientific revolutions, and what is their function in scientific development? Much of the answer to these questions has been anticipated in earlier sections. In particular, the preceding discussion has indicated that scientific revolutions are here taken to be those non-cumulative developmental episodes in which an older paradigm is replaced in whole or in part by an incompatible new one. There is more to be said, however, and an essential part of it can be introduced by asking one further question. Why should a change of paradigm be called a revolution? In the face of the vast and essential differences between political and scientific development, what parallelism can justify the metaphor that finds revolutions in both?

One aspect of the parallelism must already be apparent. Political revolutions are inaugurated by a growing sense, often restricted to a segment of the political community, that existing institutions have ceased adequately to meet the problems posed by an environment that they have in part created. In much the same way, scientific revolutions are inaugurated by a growing sense, again often restricted to a narrow subdivision of the scientific community, that an existing paradigm has ceased to function adequately in the exploration of an aspect of nature to which that paradigm itself had previously led the way. In both political and scientific development the sense of malfunction that can lead to crisis is prerequisite to revolution. Furthermore, though it admittedly strains the metaphor, that parallelism holds not only for the major paradigm changes, like those attributable to Copernicus and Lavoisier, but also for the far smaller ones associated with the assimilation of a new sort of phenomenon, like oxygen or X-rays. Scientific revolutions, as we noted at the end of Section V, need seem revolutionary only to those whose paradigms are affected by them. To outsiders they may, like the Balkan revolutions of the early twentieth century, seem normal parts of the developmental process. Astronomers, for example, could accept X-rays as a mere addition to knowledge, for their paradigms were unaffected by the existence of the new radiation. But for men like Kelvin, Crookes, and Roentgen, whose research dealt with radiation theory or with cathode ray tubes, the emergence of X-rays necessarily violated one paradigm as it created another. That is why these rays could be discovered only through something's first going wrong with normal research.

This genetic aspect of the parallel between political and scientific development should no longer be open to doubt. The parallel has, however, a second and more profound aspect upon which the significance of the first depends. Political revolutions aim to change political institutions in ways that those institutions themselves prohibit. Their success therefore necessitates the partial relinquishment of one set of institutions in favour of another, and in the interim, society is not fully governed by institutions at all. Initially it is crisis alone that attenuates the role of political institutions as we have already seen it attenuate the role of paradigms. In increasing numbers individuals become increasingly estranged from political life and behave more and more eccentrically within it. Then, as the crisis deepens, many of these individuals commit themselves to some concrete proposal for the reconstruction of society in a new institutional framework. At that point the society is divided into competing camps or parties, one seeking to defend the old institutional constellation, the others seeking to institute some new one. And, once that polarisation has occurred, political recourse fails. Because they differ about the institutional matrix within which political change is to be achieved and evaluated, because they acknowledge no supra-institutional framework for the adjudication of revolutionary difference, the parties to a revolutionary conflict must finally resort to the techniques of mass persuasion, often including force. Though revolutions have had a vital role in the evolution of political institutions, that role depends upon their being partially extrapolitical or extrainstitutional events. The remainder of this essay aims to demonstrate that the historical study of paradigm change reveals very similar characteristics in the evolution of the sciences. Like the choice between competing political institutions, that between competing paradigms proves to be a choice between incompatible modes of community life. Because it has that character, the choice is not and cannot be determined merely by the evaluative procedures characteristic of normal science, for these depend in part upon a particular paradigm, and that paradigm is at issue. When paradigms enter, as they must, into a debate about paradigm choice, their role is necessarily circular. Each group uses its own paradigm to argue in that paradigm's defence.

The resulting circularity does not, of course, make the arguments wrong or even ineffectual. The man who premises a paradigm when arguing in its defence can nonetheless provide a clear exhibit of what scientific practice will be like for those who adopt the new view of nature. That exhibit can be immensely persuasive, often compellingly so. Yet, whatever its force, the status of the circular argument is only that of persuasion. It cannot be made logically or even probabilistically compelling for those who refuse to step into the circle. The premises and values shared by the two parties to a debate over paradigms are not sufficiently extensive for that. As in political revolutions, so in paradigm choice - there is no standard higher than the assent of the relevant community. To discover how scientific revolutions are effected, we shall therefore have to examine not only the impact of nature and of logic, but also the techniques of persuasive

argumentation effective within the quite special groups that constitute the community of scientists.

To discover why this issue of paradigm choice can never be unequivocally settled by logic and experiment alone, we must shortly examine the nature of the differences that separate the proponents of a traditional paradigm from their revolutionary successors. That examination is the principal object of this section and the next. We have, however, already noted numerous examples of such differences, and no one will doubt that history can supply many others. What is more likely to be doubted than their existence—and what must therefore be considered first - is that such examples provide essential information about the nature of science. Granting that paradigm rejection has been a historic fact, does it illuminate more than human credulity and confusion? Are there intrinsic reasons why the assimilation of either a new sort of phenomenon or a new scientific theory must demand the rejection of an older paradigm?

First notice that if there are such reasons, they do not derive from the logical structure of scientific knowledge. In principle, a new phenomenon might emerge without reflecting destructively upon any part of past scientific practice. Though discovering life on the moon would today be destructive of existing paradigms (these tell us things about the moon that seem incompatible with life's existence there), discovering life in some less well-known part of the galaxy would not. By the same token, a new theory does not have to conflict with any of its predecessors. It might deal exclusively with phenomena not previously known, as the quantum theory deals (but, significantly, not exclusively) with subatomic phenomena unknown before the twentieth century. Or again, the new theory might be simply a higher level theory than those known before, one that linked together a whole group of lower level theories without substantially changing any. Today, the theory of energy conservation provides just such links between dynamics, chemistry, electricity, optics, thermal theory, and so on. Still other compatible relationships between old and new theories can be conceived. Any and all of them might be exemplified by the historical process through which science has developed. If they were, scientific development would be genuinely cumulative. New sorts of phenomena would simply disclose order in an aspect of nature where none had been seen before. In the evolution of science new knowledge would replace ignorance rather than replace know ledge of another and incompatible sort.

Of course, science (or some other enterprise, perhaps less effective) might have developed in that fully cumulative manner. Many people have believed that it did so, and most still seem to suppose that cumulation is at least the ideal that historical development would display if only it had not so often been distorted by human idiosyncrasy. There are important reasons for that belief. In Section X we shall discover how closely the view of science-as-cumulation is entangled with a dominant epistemology that takes knowledge to be a construction placed directly upon raw sense data by the mind. And in Section XI

we shall examine the strong support provided to the same historiographic schema by the techniques of effective science pedagogy. Nevertheless, despite the immense plausibility of that ideal image, there is increasing reason to wonder whether it can possibly be an image of science. After the pre-paradigm period the assimilation of all new theories and of almost all new sorts of phenomena has in fact demanded the destruction of a prior paradigm and a consequent conflict between competing schools of scientific thought. Cumulative acquisition of unanticipated novelties proves to be an almost non-existent exception to the rule of scientific development. The man who takes historic fact seriously must suspect that science does not tend toward the ideal that our image of its cumulativeness has suggested. Perhaps it is another sort of enterprise.

If, however, resistant facts can carry us that far, then a second look at the ground we have already covered may suggest that cumulative acquisition of novelty is not only rare in fact but improbable in principle. Normal research, which is cumulative, owes its success to the ability of scientists regularly to select problems that can be solved with conceptual and instrumental techniques close to those already in existence. (That is why an excessive concern with useful problems, regardless of their relation to existing knowledge and technique, can so easily inhibit scientific development.) The man who is striving to solve a problem defined by existing knowledge and technique is not, however, just looking around. He knows what he wants to achieve, and he designs his instruments and directs his thoughts accordingly. Unanticipated novelty, the new discovery, can emerge only to the extent that his anticipations about nature and his instruments prove wrong. Often the importance of the resulting discovery will itself be proportional to the extent and stubbornness of the anomaly that foreshadowed it. Obviously, then, there must be a conflict between the paradigm that discloses anomaly and the one that later renders the anomaly law-like. The examples of discovery through paradigm destruction examined in Section VI did not confront us with mere historical accident. There is no other effective way in which discoveries might be generated.

The same argument applies even more clearly to the invention of new theories. There are, in principle, only three types of phenomena about which a new theory might be developed. The first consists of phenomena already well explained by existing paradigms, and these seldom provide either motive or point of departure for theory construction. When they do, as with the three famous anticipations discussed at the end of Section VII, the theories that result are seldom accepted, because nature provides no ground for discrimination. A second class of phenomena consists of those whose nature is indicated by existing paradigms but whose details can be understood only through further theory articulation. These are the phenomena to which scientists direct their research much of the time, but that research aims at the articulation of existing paradigms rather than at the invention of new ones. Only when these attempts at articulation fail do scientists encounter the third type of phenomena, the recognised anomalies whose characteristic

feature is their stubborn refusal to be assimilated to existing paradigms. This type alone gives rise to new theories. Paradigms provide all phenomena except anomalies with a theory-determined place in the scientist's field of vision.

But if new theories are called forth to resolve anomalies in the relation of an existing theory to nature, then the successful new theory must somewhere permit predictions that are different from those derived from its predecessor. That difference could not occur if the two were logically compatible. In the process of being assimilated, the second must displace the first. Even a theory like energy conservation, which today seems a logical superstructure that relates to nature only through independently established theories, did not develop historically without paradigm destruction. Instead, it emerged from a crisis in which an essential ingredient was the incompatibility between Newtonian dynamics and some recently formulated consequences of the caloric theory of heat. Only after the caloric theory had been rejected could energy conservation become part of science. And only after it had been part of science for some time could it come to seem a theory of a logically higher type, one not in conflict with its predecessors. It is hard to see how new theories could arise without these destructive changes in beliefs about nature. Though logical inclusiveness remains a permissible view of the relation between successive scientific theories, it is a historical implausibility.

Logical Positivism

A century ago it would, I think, have been possible to let the case for the necessity of revolutions rest at this point. But today, unfortunately, that cannot be done because the view of the subject developed above cannot be maintained if the most prevalent contemporary interpretation of the nature and function of scientific theory is accepted. That interpretation, closely associated with early logical positivism and not categorically rejected by its successors, would restrict the range and meaning of an accepted theory so that it could not possibly conflict with any later theory that made predictions about some of the same natural phenomena. The best-known and the strongest case for this restricted conception of a scientific theory emerges in discussions of the relation between contemporary Einsteinian dynamics and the older dynamical equations that descend from Newton's Principia. From the viewpoint of this essay these two theories are fundamentally incompatible in the sense illustrated by the relation of Copernican to Ptolemaic astronomy: Einstein's theory can be accepted only with the recognition that Newton's was wrong. Today this remains a minority view. We must therefore examine the most prevalent objections to it.

The gist of these objections can be developed as follows. Relativistic dynamics cannot have shown Newtonian dynamics to be wrong, for Newtonian dynamics is still used with great success by most engineers and, in selected applications, by many physicists. Furthermore, the propriety of this use of the older theory can be proved from the very

theory that has, in other applications, replaced it. Einstein's theory can be used to show that predictions from Newton's equations will be as good as our measuring instruments in all applications that satisfy a small number of restrictive conditions. For example, if Newtonian theory is to provide a good approximate solution, the relative velocities of the bodies considered must be small compared with the velocity of light. Subject to this condition and a few others, Newtonian theory seems to be derivable from Einsteinian, of which it is therefore a special case.

But, the objection continues, no theory can possibly conflict with one of its special cases. If Einsteinian science seems to make Newtonian dynamics wrong, that is only because some Newtonians were so incautious as to claim that Newtonian theory yielded entirely precise results or that it was valid at very high relative velocities. Since they could not have had any evidence for such claims, they betrayed the standards of science when they made them. In so far as Newtonian theory was ever a truly scientific theory supported by valid evidence, it still is. Only extravagant claims for the theory—claims that were never properly parts of science can have been shown by Einstein to be wrong. Purged of these merely human extravagances, Newtonian theory has never been challenged and cannot be.

Some variant of this argument is quite sufficient to make any theory ever used by a significant group of competent scientists immune to attack. The much-maligned phlogiston theory, for example, gave order to a large number of physical and chemical phenomena. It explained why bodies burned - they were rich in phlogiston - and why metals had so many more properties in common than did their ores. The metals were all compounded from different elementary earths combined with phlogiston, and the latter, common to all metals, produced common properties. In addition, the phlogiston theory accounted for a number of reactions in which acids were formed by the combustion of substances like carbon and sulphur. Also, it explained the decrease of volume when combustion occurs in a confined volume of air the phlogiston released by combustion "spoils" the elasticity of the air that absorbed it, just as fire "spoils" the elasticity of a steel spring. If these were the only phenomena that the phlogiston theorists had claimed for their theory, that theory could never have been challenged. A similar argument will suffice for any theory that has ever been successfully applied to any range of phenomena at all.

But to save theories in this way, their range of application must be restricted to those phenomena and to that precision of observation with which the experimental evidence in hand already deals. Carried just a step further (and the step can scarcely be avoided once the first is taken), such a limitation prohibits the scientist from claiming to speak "scientifically" about any phenomenon not already observed. Even in its present form the restriction forbids the scientist to rely upon a theory in his own research whenever that research enters an area or seeks a degree of precision for which past practice with the theory offers no precedent. These prohibitions are logically unexceptionable. But the result

of accepting them would be the end of the research through which science may develop further.

By now that point too is virtually a tautology. Without commitment to a paradigm there could be no normal science. Furthermore, that commitment must extend to areas and to degrees of precision for which there is no full precedent. If it did not, the paradigm could provide no puzzles that had not already been solved. Besides, it is not only normal science that depends upon commitment to a paradigm. If existing theory binds the scientist only with respect to existing applications, then there can be no surprises, anomalies, or crises. But these are just the signposts that point the way to extraordinary science. If positivistic restrictions on the range of a theory's legitimate applicability are taken literally, the mechanism that tells the scientific community what problems may lead to fundamental change must cease to function. And when that occurs, the community will inevitably return to something much like its pre-paradigm state a condition in which all members practice science but in which their gross product scarcely resembles science at all. Is it really any wonder that the price of significant scientific advance is a commitment that runs the risk of being wrong?

More important, there is a revealing logical lacuna in the positivist's argument, one that will reintroduce us immediately to the nature of revolutionary change. Can Newtonian dynamics really be derived from relativistic dynamics? What would such a derivation look like? Imagine a set of statements, E_2 , E_2 ,..., E_n which together embody the laws of relativity theory. These statements contain variables and parameters representing spatial position, time, rest mass, etc. From them, together with the apparatus of logic and mathematics, is deducible a whole set of further statements including some that can be checked by observation. To prove the adequacy of Newtonian dynamics as a special case, we must add to the E_i 's additional statements, like $(v/c)^2 <<1$, restricting the range of the parameters and variables. This enlarged set of statements is then manipulated to yield a new set, N_1 , N_2 ,..., N_m , which is identical in form with Newton's laws of motion, the law of gravity, and so on. Apparently Newtonian dynamics has been derived from Einsteinian, subject to a few limiting conditions.

Yet the derivation is spurious, at least to this point. Though the Ni's are a special case of the laws of relativistic mechanics, they are not Newton's Laws. Or at least they are not unless those laws are reinterpreted in a way that would have been impossible until after Einstein's work. The variables and parameters that in the Einsteinian Ei's represented spatial position, time, mass, etc., still occur in the Ni's; and they there still represent Einsteinian space, time, and mass. But the physical referents of these Einsteinian concepts are by no means identical with those of the Newtonian concepts that bear the same name. (Newtonian mass is conserved; Einsteinian is convertible with energy. Only at low relative velocities may the two be measured in the same way, and even then they must not be conceived to be the same.) Unless we change the definitions of the variables in the Ni's,

the statements we have derived are not Newtonian. If we do change them, we cannot properly be said to have derived Newton's Laws, at least not in any sense of "derive" now generally recognised. Our argument has, of course, explained why Newton's Laws ever seemed to work. In doing so it has justified, say, an automobile driver in acting as though he lived in a Newtonian universe. An argument of the same type is used to justify teaching earth-centred astronomy to surveyors. But the argument has still not done what it purported to do. It has not, that is, shown Newton's Laws to be a limiting case of Einstein's. For in the passage to the limit it is not only the forms of the laws that have changed. Simultaneously we have had to alter the fundamental structural elements of which the universe to which they apply is composed.

This need to change the meaning of established and familiar concepts is central to the revolutionary impact of Einstein's theory. Though subtler than the changes from geocentrism to heliocentrism, from phlogiston to oxygen, or from corpuscles to waves, the resulting conceptual transformation is no less decisively destructive of a previously established paradigm. We may even come to see it as a prototype for revolutionary reorientations in the sciences. Just because it did not involve the introduction of additional objects or concepts, the transition from Newtonian to Einsteinian mechanics illustrates with particular clarity the scientific revolution as a displacement of the conceptual network through which scientists view the world.

These remarks should suffice to show what might, in another philosophical climate, have been taken for granted. At least for scientists, most of the apparent differences between a discarded scientific theory and its successor are real. Though an out-of-date theory can always be viewed as a special case of its up-to-date successor, it must be transformed for the purpose. And the transformation is one that can be undertaken only with the advantages of hindsight, the explicit guidance of the more recent theory. Furthermore, even if that transformation were a legitimate device to employ in interpreting the older theory, the result of its application would be a theory so restricted that it could only restate what was already known. Because of its economy, that restatement would have utility, but it could not suffice for the guidance of research.

Let us, therefore, now take it for granted that the differences between successive paradigms are both necessary and irreconcilable. Can we then say more explicitly what sorts of differences these are? The most apparent type has already been illustrated repeatedly. Successive paradigms tell us different things about the population of the universe and about that population's behaviour. They differ, that is, about such questions as the existence of subatomic particles, the materiality of light, and the conservation of heat or of energy. These are the substantive differences between successive paradigms, and they require no further illustration. But paradigms differ in more than substance, for they are directed not only to nature but also back upon the science that produced them. They are the source of the methods, problem-field, and standards of solution accepted by any

mature scientific community at any given time. As a result, the reception of a new paradigm often necessitates a redefinition of the corresponding science. Some old problems may be relegated to another science or declared entirely "unscientific." Others that were previously non-existent or trivial may, with a new paradigm, become the very archetypes of significant scientific achievement. And as the problems change, so, often, does the standard that distinguishes a real scientific solution from a mere metaphysical speculation, word game, or mathematical play. The normal-scientific tradition that emerges from a scientific revolution is not only incompatible but often actually incommensurable with that which has gone before.

The impact of Newton's work upon the normal seventeenth century tradition of scientific practice provides a striking example of these subtler effects of paradigm shift. Before Newton was born the "new science" of the century had at last succeeded in rejecting Aristotelian and scholastic explanations expressed in terms of the essences of material bodies. To say that a stone fell because its "nature" drove it toward the center of the universe had been made to look a mere tautological word-play, something it had not previously been. Henceforth the entire flux of sensory appearances, including colour, taste, and even weight, was to be explained in terms of the size, shape, position, and motion of the elementary corpuscles of base matter. The attribution of other qualities to the elementary atoms was a resort to the occult and therefore out of bounds for science. Moliere caught the new spirit precisely when he ridiculed the doctor who explained opium's efficacy as a soporific by attributing to it a dormitive potency. During the last half of the seventeenth century many scientists preferred to say that the round shape of the opium particles enabled them to sooth the nerves about which they moved.

In an earlier period explanations in terms of occult qualities had been an integral part of productive scientific work. Nevertheless, the seventeenth century's new commitment to mechanico-corpuscular explanation proved immensely fruitful for a number of sciences, ridding them of problems that had defied generally accepted solution and suggesting others to replace them. In dynamics, for example, Newton's three laws of motion are less a product of novel experiments than of the attempt to reinterpret well-known observations in terms of the motions and interactions of primary neutral corpuscles. Consider just one concrete illustration. Since neutral corpuscles could act on each other only by contact, the mechanico-corpuscular view of nature directed scientific attention to a brand-new subject of study, the alteration of particulate motions by collisions. Descartes announced the problem and provided its first putative solution. Huygens, Wren, and Wallis carried it still further, partly by experimenting with colliding pendulum bobs, but mostly by applying previously well-known characteristics of motion to the new problem. And Newton embedded their results in his laws of motion. The equal "action" and "reaction" of the third law are the changes in quantity of motion experienced by the two parties to a collision. The same change of motion supplies the definition of dynamical force implicit

in the second law. In this case, as in many others during the seventeenth century, the corpuscular paradigm bred both a new problem and a large part of that problem's solution.

Yet, though much of Newton's work was directed to problems and embodied standards derived from the mechanico-corpuscular world view, the effect of the paradigm that resulted from his work was a further and partially destructive change in the problems and standards legitimate for science. Gravity, interpreted as an innate attraction between every pair of particles of matter, was an occult quality in the same sense as the scholastics' "tendency to fall" had been. Therefore, while the standards of corpuscularism remained in effect, the search for a mechanical explanation of gravity was one of the most challenging problems for those who accepted the *Principia* as paradigm. Newton devoted much attention to it and so did many of his eighteenth century successors. The only apparent option was to reject Newton's theory for its failure to explain gravity, and that alternative, too, was widely adopted. Yet neither of these views ultimately triumphed. Unable either to practice science without the Principia or to make that work conform to the corpuscular standards of the seventeenth century, scientists gradually accepted the view that gravity was indeed innate. By the mid-eighteenth century that interpretation had been almost universally accepted, and the result was a genuine reversion (which is not the same as a retrogression) to a scholastic standard. Innate attractions and repulsions joined size, shape, position, and motion as physically irreducible primary properties of matter.

The resulting change in the standards and problem-field of physical science was once again consequential. By the 1740's, for example, electricians could speak of the attractive "virtue" of the electric fluid without thereby inviting the ridicule that had greeted Moliere's doctor a century before. As they did so, electrical phenomena increasingly displayed an order different from the one they had shown when viewed as the effects of a mechanical effluvium that could act only by contact. In particular, when electrical actionat-a-distance became a subject for study in its own right, the phenomenon we now call charging by induction could be recognised as one of its effects. Previously, when seen at all, it had been attributed to the direct action of electrical "atmospheres" or to the leakages inevitable in any electrical laboratory. The new view of inductive effects was, in turn, the key to Franklin's analysis of the Leyden jar and thus to the emergence of a new and Newtonian paradigm for electricity. Nor were dynamics and electricity the only scientific fields affected by the legitimisation of the search for forces innate to matter. The large body of eighteenth-century literature on chemical affinities and replacement series also derives from this supramechanical aspect of Newtonianism. Chemists who believed in these differential attractions between the various chemical species set up previously unimagined experiments and searched for new sorts of reactions. Without the data and the chemical concepts developed in that process, the later work of Lavoisier and, more particularly, of Dalton would be incomprehensible. Changes in the standards governing

permissible problems, concepts, and explanations can transform a science. In the next section I shall even suggest a sense in which they transform the world.

Other examples of these non-substantive differences between successive paradigms can be retrieved from the history of any science in almost any period of its development. For the moment let us be content with just two other and far briefer illustrations. Before the chemical revolution, one of the acknowledged tasks of chemistry was to account for the qualities of chemical substances and for the changes these qualities underwent during chemical reactions. With the aid of a small number of elementary "principles"—of which phlogiston was one—the chemist was to explain why some substances are acidic, others metalline, combustible, and so forth. Some success in this direction had been achieved. We have already noted that phlogiston explained why the metals were so much alike, and we could have developed a similar argument for the acids. Lavoisier's reform, however, ultimately did away with chemical "principles," and thus ended by depriving chemistry of some actual and much potential explanatory power. To compensate for this loss, a change in standards was required. During much of the nineteenth century failure to explain the qualities of compounds was no indictment of a chemical theory.

Or again, Clerk Maxwell shared with other nineteenth-century proponents of the wave theory of light the conviction that light waves must be propagated through a material ether. Designing a mechanical medium to support such waves was a standard problem for many of his ablest contemporaries. His own theory, however, the electromagnetic theory of light, gave no account at all of a medium able to support light waves, and it clearly made such an account harder to provide than it had seemed before. Initially, Maxwell's theory was widely rejected for those reasons. But, like Newton's theory, Maxwell's proved difficult to dispense with, and as it achieved the status of a paradigm the community's attitude toward it changed. In the early decades of the twentieth century Maxwell's insistence upon the existence of a mechanical ether looked more and more like lip service, which it emphatically had not been, and the attempts to design such an ethereal medium were abandoned. Scientists no longer thought it unscientific to speak of an electrical "displacement" without specifying what was being displaced. The result, again, was a new set of problems and standards, one which, in the event, had much to do with the emergence of relativity theory.

These characteristic shifts in the scientific community's conception of its legitimate problems and standards would have less significance to this essay's thesis if one could suppose that they always occurred from some methodologically lower to some higher type. In that case their effects, too, would seem cumulative. No wonder that some historians have argued that the history of science records a continuing increase in the maturity and refinement of man's conception of the nature of science. Yet the case for cumulative development of science's problems and standards is even harder to make than the case for cumulation of theories. The attempt to explain gravity, though fruitfully

abandoned by most eighteenth-century scientists, was not directed to an intrinsically illegitimate problem; the objections to innate forces were neither inherently unscientific nor metaphysical in some pejorative sense. There are no external standards to permit a judgment of that sort. What occurred was neither a decline nor a raising of standards, but simply a change demanded by the adoption of a new paradigm. Furthermore, that change has since been reversed and could be again. In the twentieth century Einstein succeeded in explaining gravitational attractions, and that explanation has returned science to a set of canons and problems that are, in this particular respect, more like those of Newton's predecessors than of his successors. Or again, the development of quantum mechanics has reversed the methodological prohibition that originated in the chemical revolution. Chemists now attempt, and with great success, to explain the colour, state of aggregation, and other qualities of the substances used and produced in their laboratories. A similar reversal may even be underway in electromagnetic theory. Space, in contemporary physics, is not the inert and homogenous substratum employed in both Newton's and Maxwell's theories; some of its new properties are not unlike those once attributed to the ether; we may some day come to know what an electric displacement is.

By shifting emphasis from the cognitive to the normative functions of paradigms, the preceding examples enlarge our understanding of the ways in which paradigms give form to the scientific life. Previously, we had principally examined the paradigm's role as a vehicle for scientific theory. In that role it functions by telling the scientist about the entities that nature does and does not contain and about the ways in which those entities behave. That information provides a map whose details are elucidated by mature scientific research. And since nature is too complex and varied to be explored at random, that map is as essential as observation and experiment to science's continuing development. Through the theories they embody, paradigms prove to be constitutive of the research activity. They are also, however, constitutive of science in other respects, and that is now the point. In particular, our most recent examples show that paradigms provide scientists not only with a map but also with some of the directions essential for map-making. In learning a paradigm the scientist acquires theory, methods, and standards together, usually in an inextricable mixture. Therefore, when paradigms change, there are usual! y significant shifts in the criteria determining the legitimacy both of problems and of proposed solutions.

That observation returns us to the point from which this section began, for it provides our first explicit indication of why the choice between competing paradigms regularly raises questions that cannot be resolved by the criteria of normal science. To the extent, as significant as it is incomplete, that two scientific schools disagree about what is a problem and what a solution, they will inevitably talk through each other when debating the relative merits of their respective paradigms. In the partially circular arguments that regularly result, each paradigm will be shown to satisfy more or less the criteria that it

dictates for itself and to fall short of a few of those dictated by its opponent. There are other reasons, too, for the incompleteness of logical contact that consistently characterises paradigm debates. For example, since no paradigm ever solves all the problems it defines and since no two paradigms leave all the same problems unsolved, paradigm debates always involve the question: Which problems is it more significant to have solved? Like the issue of competing standards, that question of values can be answered only in terms of criteria that lie outside of normal science altogether, and it is that recourse to external criteria that most obviously makes paradigm debates revolutionary. Something even more fundamental than standards and values is, however, also at stake. I have so far argued only that paradigms are constitutive of science. Now I wish to display a sense in which they are constitutive of nature as well.

Postscript: Revolutions and Relativism

One consequence of the position just outlined has particularly bothered a number of my critics. They find my viewpoint relativistic, particularly as it is developed in the last section of this book. My remarks about translation highlight the reasons for the charge. The proponents of different theories are like the members of different language-culture communities. Recognising the parallelism suggests that in some sense both groups may be right. Applied to culture and its development that position is relativistic.

But applied to science it may not be, and it is in any case far from mere relativism in a respect that its critics have failed to see. Taken as a group or in groups, practitioners of the developed sciences are, I have argued, fundamentally puzzle-solvers. Though the values that they deploy at times of theory-choice derive from other aspects of their work as well, the demonstrated ability to set up and to solve puzzles presented by nature is, in case of value conflict, the dominant criterion for most members of a scientific group. Like any other value, puzzle-solving ability proves equivocal in application. Two men who share it may nevertheless differ in the judgments they draw from its use. But the behaviour of a community which makes it pre-eminent will be very different from that of one which does not. In the sciences, I believe, the high value accorded to puzzle-solving ability has the following consequences.

Imagine an evolutionary tree representing the development of the modern scientific specialties from their common origins in, say, primitive natural philosophy and the crafts. A line drawn up that tree, never doubling back, from the trunk to the tip of some branch would trace a succession of theories related by descent. Considering any two such theories, chosen from points not too near their origin, it should be easy to design a list of criteria that would enable an uncommitted observer to distinguish the earlier from the more recent theory time after time. Among the most useful would be: accuracy of prediction, particularly of quantitative prediction; the balance between esoteric and everyday subject matter; and the number of different problems solved. Less useful for

this purpose, though also important determinants of scientific life, would be such value as simplicity, scope, and compatibility with other specialties. Those lists are not yet the ones required, but I have no doubt that they can be completed. If they can, then scientific development is, like biological, a unidirectional and irreversible process. Later scientific theories are better than earlier ones for solving puzzles in the often quite different environments to which they are applied. That is not a relativist's position, and it displays the sense in which I am a convinced believer in scientific progress.

Compared with the notion of progress most prevalent among both philosophers of science and laymen, however, this position lacks an essential element. A scientific theory is usually felt to be better than its predecessors not only in the sense that it is a better instrument for discovering and solving puzzles but also because it is somehow a better representation of what nature is really like. One often hears that successive theories grow ever closer to, or approximate more and more closely to, the truth. Apparently generalisations like that refer not to the puzzle-solutions and the concrete predictions derived from a theory but rather to its ontology, to the match, that is, between the entities with which the theory populates nature and what is "really there."

Perhaps there is some other way of salvaging the notion of 'truth' for application to whole theories, but this one will not do. There is, I think, no theory-independent way to reconstruct phrases like 'really there'; the notion of a match between the ontology of a theory and its "real" counterpart in nature now seems to me illusive in principle. Besides, as a historian, I am impressed with the implausibility of the view. I do not doubt, for example, that Newton's mechanics improves on Aristotle's and that Einstein's improves on Newton's as instruments for puzzle-solving. But I can see in their succession no coherent direction of ontological development. On the contrary, in some important respects, though by no means in all, Einstein's general theory of relativity is closer to Aristotle's than either of them is to Newton's. Though the temptation to describe that position as relativistic is understandable, the description seems to me wrong. Conversely, if the position be relativism, I cannot see that the relativist loses anything needed to account for the nature and development of the sciences. ...