TIMELESS CLASSICS

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1 We Saw the Time Machine

The Time Traveler, as we shall call him, was speaking to us of deep matters. His gray eyes were shining, and his usually pale face was bright. We had just finished dinner at his house that night in 1895. There were six of us there—a doctor, a very young man, a mayor, a psychologist, a storekeeper named Filby, and me. All of us admired our host for his bright mind and his many inventions. In fact, we were sitting in comfortable chairs that he had invented. As he spoke, he pointed at us excitedly.

"You must follow me carefully," he said. "Most of the math that they taught you at school is based on incorrect ideas."

"Ha! Do you expect us to believe that?" said

Filby. He was a man who liked to argue.

"I can prove it. They taught you that all things have shape and form, right? We measure things by how long, high, and wide they are. These are the three dimensions of space, aren't they?"

"Correct," said the mayor.

"Well, what about time? Clearly, any real body must also exist in time. That is the *fourth* way to measure things."

"What? I don't follow you," said Filby.

"Let me explain," said the Time Traveler. "For anything to be real to us, it must last long enough for us to know that it's there. So there are really four dimensions. There's only one difference between time and space. The difference is that our consciousness moves along time in just one direction—from the beginning to the end of our lives.

"Think about this: Here is a portrait of a man at 8 years old, another at 15, another at 17, another at 23, and so on. All of these are threedimensional pictures of a four-dimensional being. In other words, this is still the same person, even though the pictures show the

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man's different ages through time. Some scientists are now telling us that time is only a kind of space."

"Wait!" said the doctor. "That doesn't make sense. If time is really just a fourth dimension of space, why can't we move freely through it, as we do in space?"

The Time Traveler smiled. "Are you *sure* we can move freely in space? We can go right and left, and backward and forward. I admit that we can move freely in two dimensions. But how about up and down? Gravity limits us there."

"Not exactly," said the doctor. "There are balloons."

"But before balloons, except for jumping, we could not move up and down."

"Still, we could move a little way up and down," said the doctor.

"Easier, far easier, down than up."

"Well, we cannot move at all in time. None of us can get away from the present moment," said the doctor.

"My dear sir, that is just where you are wrong. We are always getting away from the present moment. We travel at the same speed from the cradle to the grave. It is just as we would travel *down* if we began our lives 50 miles above the earth."

The psychologist then spoke up. "There is something wrong with your ideas. We *can* move about in all directions of space, but we cannot move about in time."

"That is my great discovery, the reason I have invited you here tonight. You are wrong to say we cannot move about in time. For instance, if I remember something very clearly, I go back to the time it happened. I become absentminded, as you say. I jump back for a moment. Of course, we cannot *stay* back for any length of time, any more than we can stay six feet above the ground. But we can go up against gravity in a balloon. Why should we not hope to stop or speed up our travel through time? And why not even turn around and travel the other way?"

"Oh, that is ridiculous!" cried Filby.

"Why do you say that?" asked our host.

"Huh! I suppose you can show black is white by argument," said Filby, "but you will never convince *me*!"

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