



# THEORY OF RELATIVITY

T H E E A S Y W A Y



A LONG, LONG TIME AGO, SCIENTISTS WANTED TO FIND OUT HOW FAST LIGHT MOVED THROUGH SPACE. A GOOD WAY TO EXPLAIN IT IS IF YOU LOOK AT RAIN. IF YOU RAN AWAY FROM RAIN, IT WOULDN'T BE AS QUICK AS YOU. BUT RUNNING TOWARDS RAIN IT WOULD BE A LOT QUICKER. THIS TURNED OUT TO BE WRONG AND ALBERT EINSTEIN WAS THE CLEVER MAN TO DISCOVER IT!

ACCORDING TO EINSTEIN'S THEORY OF RELATIVITY, IF TWO CLOUDS WERE TRAVELLING AROUND THE WORLD (FOR EXAMPLE), AND ONE WAS GOING AT A NORMAL SPEED AND THE OTHER ONE WAS GOING AT THE SPEED OF LIGHT. FOR ONE OF THEM TIME WOULD SLOW DOWN.

CAN YOU GUESS WHICH ONE WOULD SLOW DOWN BASED ON THE INFORMATION BELOW?

 = ONE SECOND (NOT TO SCALE)

35 MILES PER HOUR

THE CLOUD ON THE LEFT IS DROPPING RAIN AND IT TAKES 60 SECONDS TO REACH THE GROUND.

299792485 METRES PER SECOND

THE CLOUD ON THE RIGHT IS DROPPING RAIN AND IT ONLY TAKES 30 SECONDS TO HIT THE GROUND.