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deep connections between the
laws of nature, the human
condition, knowledge, and
the potential for progress.

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forcing us to acknowledge
our fallibility.” – Steven
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This Chapter • Summary 02.
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03.

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information with good
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broadly about explaining
reality, thinking
rationally, and the
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Deutsch presents science as
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Old ways of thought
permitted no process such as
science for correcting
errors and misconceptions.
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nature is achievable, given
the right knowledge”—but
that there is no end of
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learn that, although

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progress has no necessary end, it does have a necessary beginning: a cause, or an event with which it starts, or a necessary condition for it to take off and to thrive. Each of these beginnings is

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the nature and progress of
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David Deutsch argues that
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and drop bad ones,
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pioneer in the field of quantum computation, argues that explanations have a fundamental place in the universe. They have unlimited scope and power to cause change, and the quest to improve them is the basic

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regulating principle not only of science but of all successful human endeavor. This stream of ever improving explanations has infinite reach, according to Deutsch: we are subject only to the laws of physics, and

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they impose no upper boundary to what we can eventually understand, control, and achieve. In his previous book, *The Fabric of Reality*, Deutsch describe the four deepest strands of existing knowledge-the

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theories of evolution,
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which human actions and
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have made our brains into their survival systems. They are thoughts. They are parasites. They are in control. A meme is a distinct pattern of electrical charges in a node in our brains that

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reproduces a thousand times faster than a bacterium. Memes have found ways to leap from one brain to another. A number of them are being replicated in your brain as you read this paragraph. In 1976 the

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biologist Richard Dawkins suggested that all animals -- including humans -- are puppets and that genes hold the strings. That is, we are robots serving as life support for the genes that control us. And all they

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want to do is replicate themselves. But then, we do lots of things that don't seem to help genes replicate. We decide not to have children, we waste our time doing dangerous things like mountain climbing, or

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Explaining things like reading,
or stupid things like
smoking that don't seem to
help genes get copied into
the next generation. We do
all sorts of cultural things
for reasons that don't seem
to have anything to do with

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genes. Fashions in sports,
books, clothes, ideas,
politics, lifestyles come
and go and give our lives
meaning, so how can we be
gene robots? Dawkins
recognized that something
else was going on. We

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Communicate with one another
and we get ideas, and these
ideas seem to have a life of
their own. Maybe there was
something called memes that
were like thought genes.
Maybe our bodies were gene
robots and our minds were

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meme robots. That would mean that what we think is not the result of our own creativity, but rather the result of the evolutionary flow of memes as they wash through us. What is the biological reality of an

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idea with a life of its own?
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a meme. And no one before
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and through the physics,
astronomy and mathematics
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first to last—this is a book that has already prompted the attention and admiration of some of the most prominent scientists and mathematicians.

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many whole numbers - start
counting and you'll never
reach the end. But there are
also infinitely many decimal
numbers between zero and

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paradoxical foot-race with
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cookies from a finite amount
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intuitive metaphor, Cheng

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powerful concept to reveal
fundamental truths about
mathematics, all the way
from the infinitely large
down to the infinitely

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For a thousand years,
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difficult and illuminating
challenge for mathematicians
and theologians. It
certainly is the strangest

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idea that humans have ever thought. Where did it come from and what is it telling us about our Universe? Can there actually be infinities? Is matter infinitely divisible into ever-smaller pieces? But

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