

NANO TECHNOLOGY

NANO

Nanotechnology is the study and practical application of extremely small things.

1981

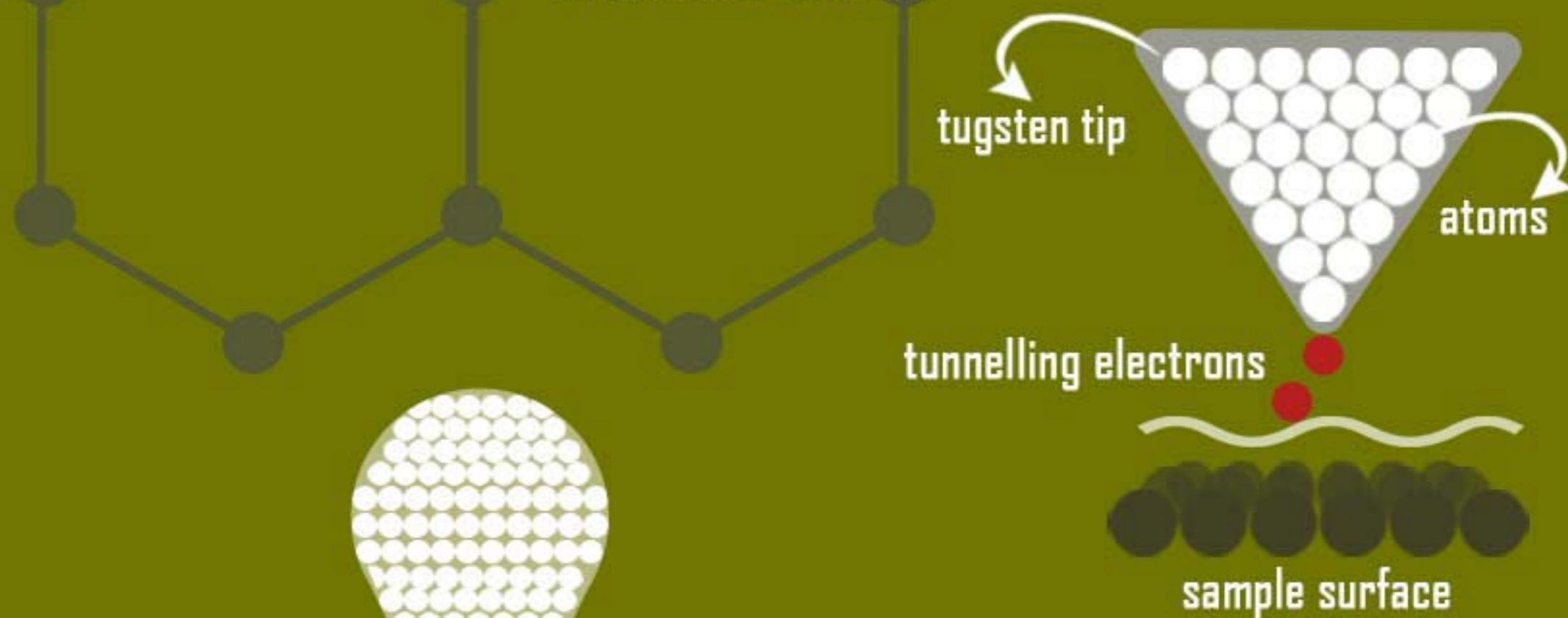
In 1981, the scientists of IBM invented the first tool for atom manipulation- the tunneling microscope.

1959

In 1959, Nobel prize winner scientist Richard Feynman predicted the possibility of manipulating individual atoms.

TUNNELING MICROSCOPE

With the help of a tunneling microscope, scientists can not only see individual atoms, but also lift and move them around.



LEGO BLOCKS

Courtesy nanotechnology, the atoms can be rearranged in interesting new ways just like tiny LEGO blocks.



NANOSCALE

Nanotechnology uses an incredibly small scale known as a nanoscale.

Even the smallest of objects look gigantic if measured on a nanoscale.

NANOMETRE

A Nanometre is

1 billionth of a metre.

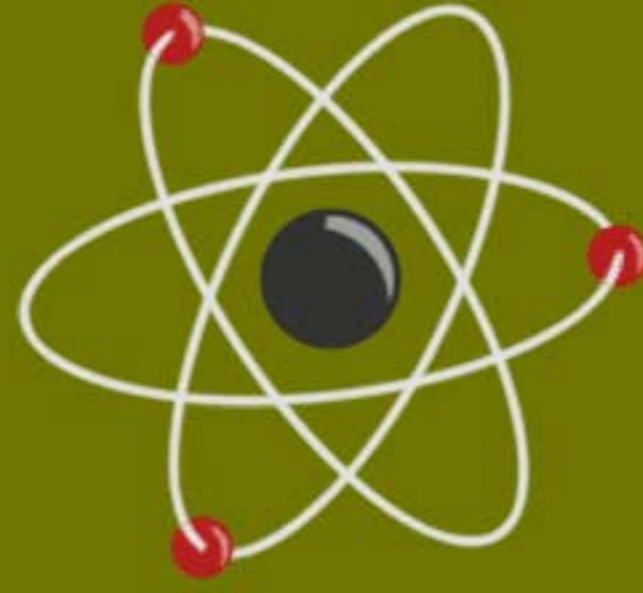
This is roughly a million times smaller than the full stop mark at the end of this line.

$\frac{1}{1,000,000,000}$

metre = 1 nano metre

ATOM

An atom of an object measures around **0.1 nanometres**.



VS



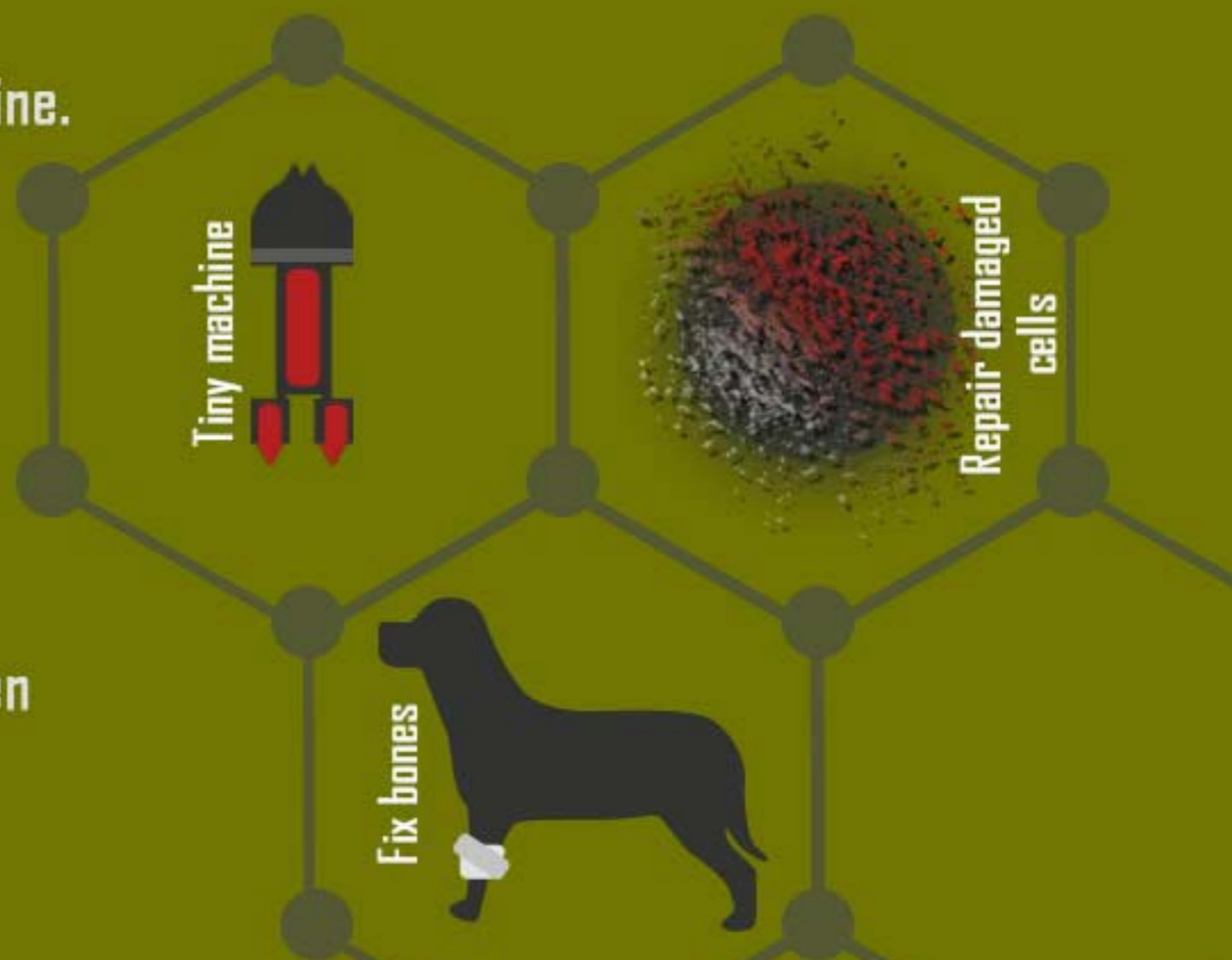
HUMAN

A normal adult person is about **1500 million nanometres** tall.

MEDICAL SCIENCE

Nanotechnology can revolutionize medicine.

Scientists are trying to make **tiny machines** that could easily navigate through bodies to **put medicines in the blood**, **repair damaged cell** and even **fix bones**.



GADGETS

Nanotechnology also helps manufacturers make your favourite electronic gadgets smaller and more portable.