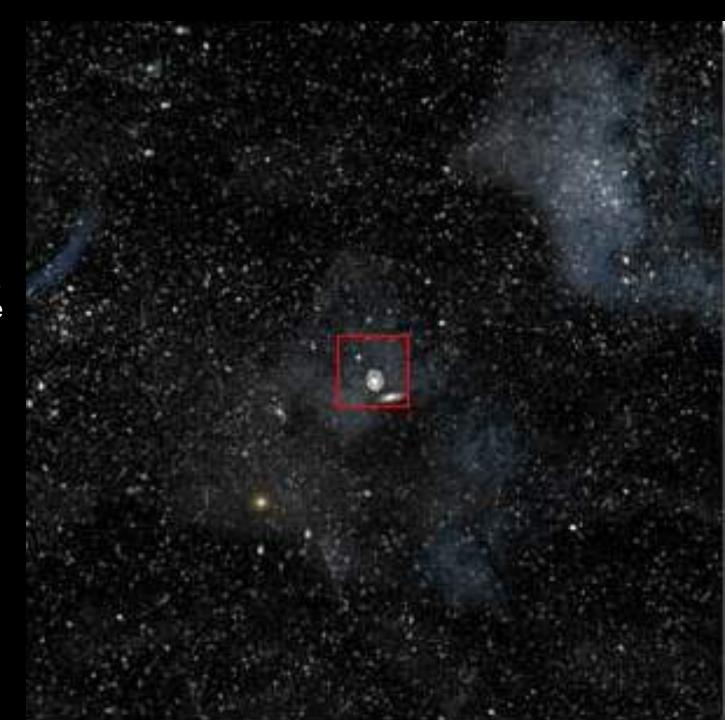
Travel with NASA from the biggest to the smallest distance of the universe.

This is a journey which starts and ends in distances difficult for the human mind to capture.

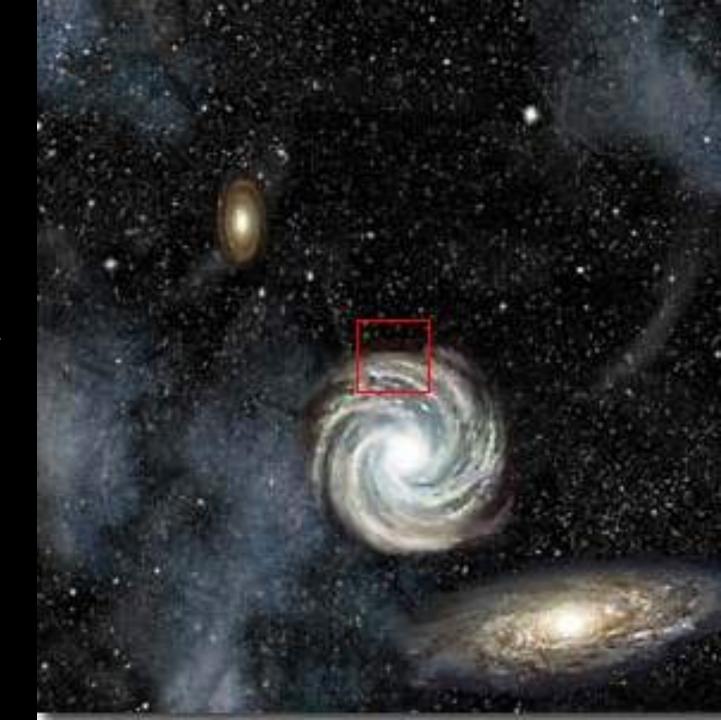
It starts from 10 million light years (10²³ m) in space, and ends on Earth at 10⁻¹⁶m.

Enjoy your trip ...

10 million light years (10²³ m) the distance to the Milky-Way galaxy

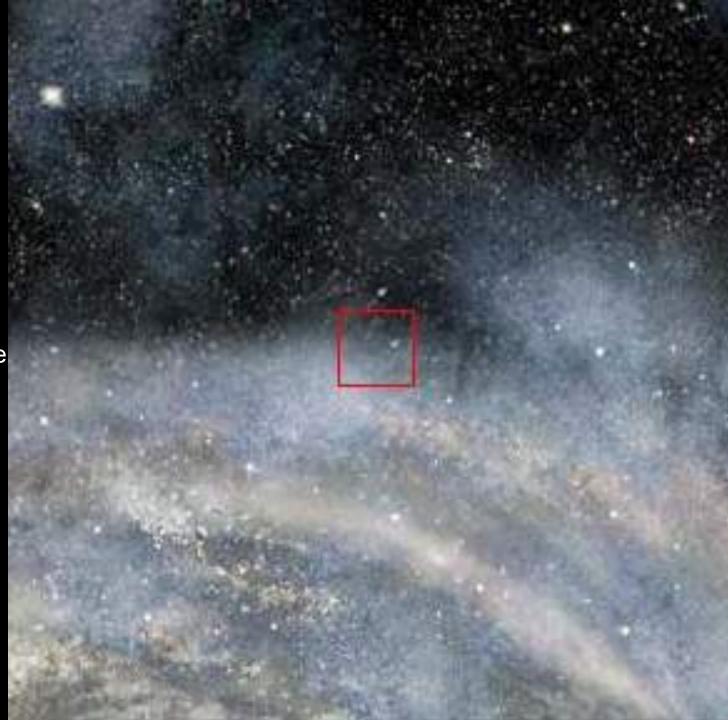


1 million light years (10²² m) The galactic disc becomes visible.



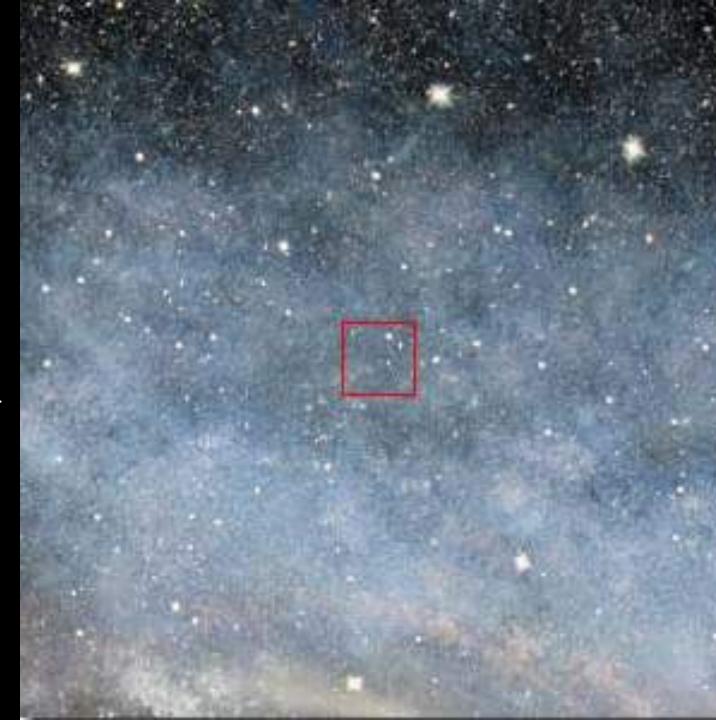
100.000 light years (10²¹ m)

The galactic structure is getting diffuse.



10.000 light years (10²⁰ m)

You start to see individual stars of our galaxy.



1.000 light years (10¹⁹ m) The stars ten times closer.

100 light years
(10¹⁸ m)
Nothing but stars.

10 light years
(10¹⁷ m)
Even more stars.



1 light year (10¹⁶ m)

If you look closely you can see the sun.

1 trillion km (10¹⁵ m)

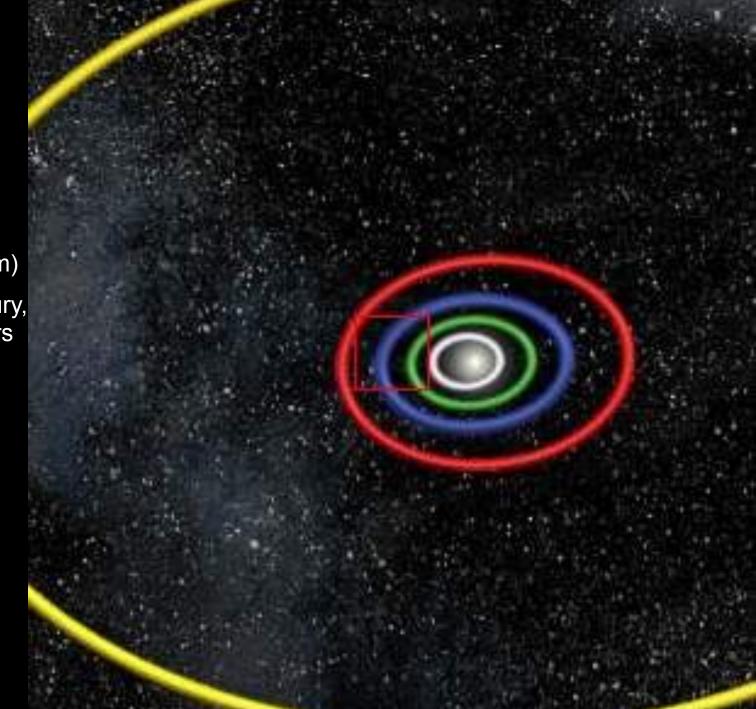
The sun is even bigger.



10 billion km (10¹³ m)

The orbits of the outer-most planets of our solar system.





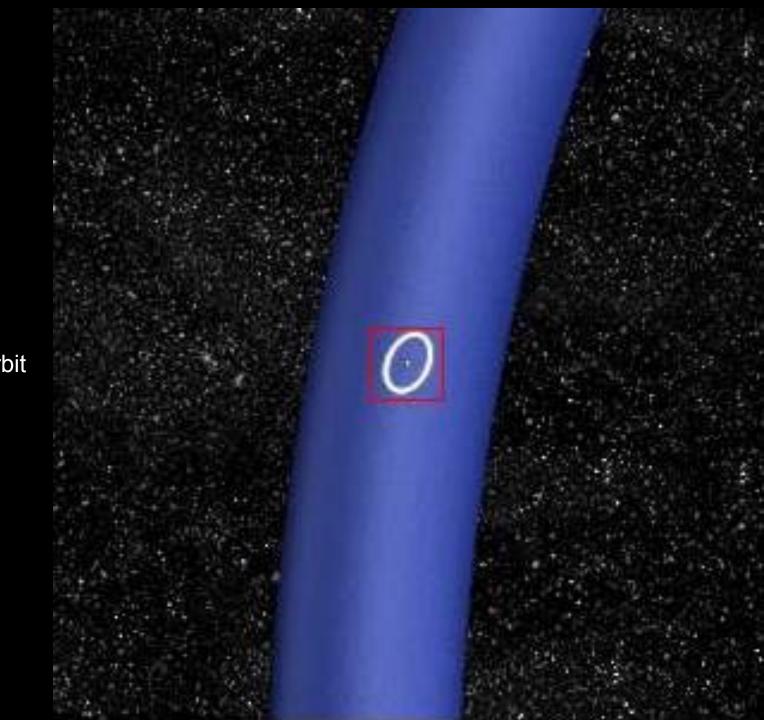
1 billion km (10¹² m)

The orbits of Mercury, Venus, Earth, Mars and Jupiter.

100 million km
(10¹¹ m)

The orbits of Venus, Earth and Mars.

10 million km
(10¹⁰ m)
Part of Earth's orbit



1 million km (10⁹ m) You see the moon's orbit.

100.000 km (108 m) Our Earth is still small.

10.000 km(10⁷ m)

Earth's northern hemisphere



1.000 km (10⁶ m) Florida, USA 100 km (10⁵ m) Florida even closer



10 km (10⁴ m)

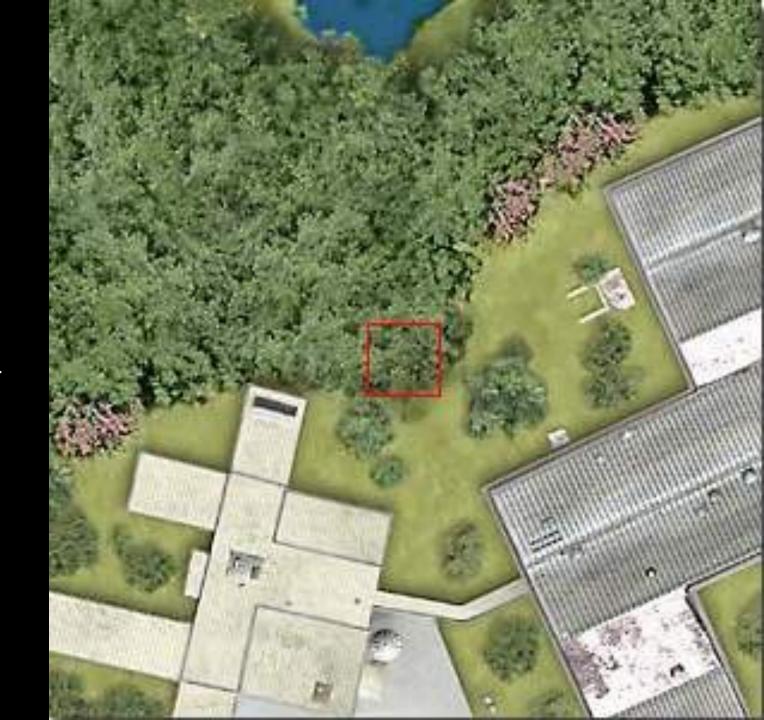
You start to see distinct places.



1 km (10³ m)

What you see when free falling from a plane.

100 m (10² m) An ordinary view from a helicopter



10 m (10¹m)

The view from the height of a cliff

1 m (100 m) What you see at arm's length...



10 cm (10⁻¹ m)

You can touch the leaves.



1 cm (10⁻² m)

You can see the leaf's structure.



1 mm (10⁻³ m)

Even closer ...



100 micron (10-4 m)

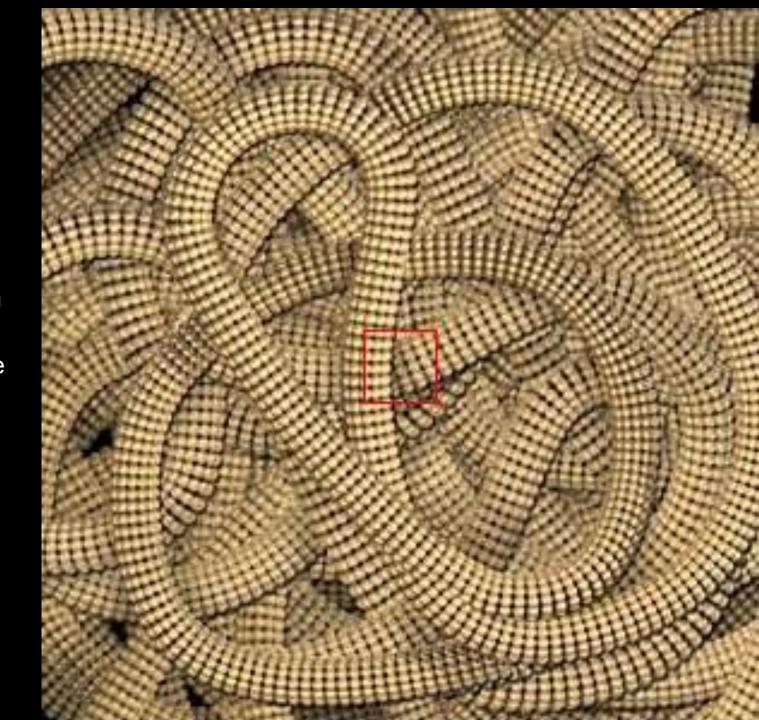
Now you begin to see the cells.

10 micron (10⁻⁵ m) The cells are even clearer.

1 micron (10-6 m).
The cell itself

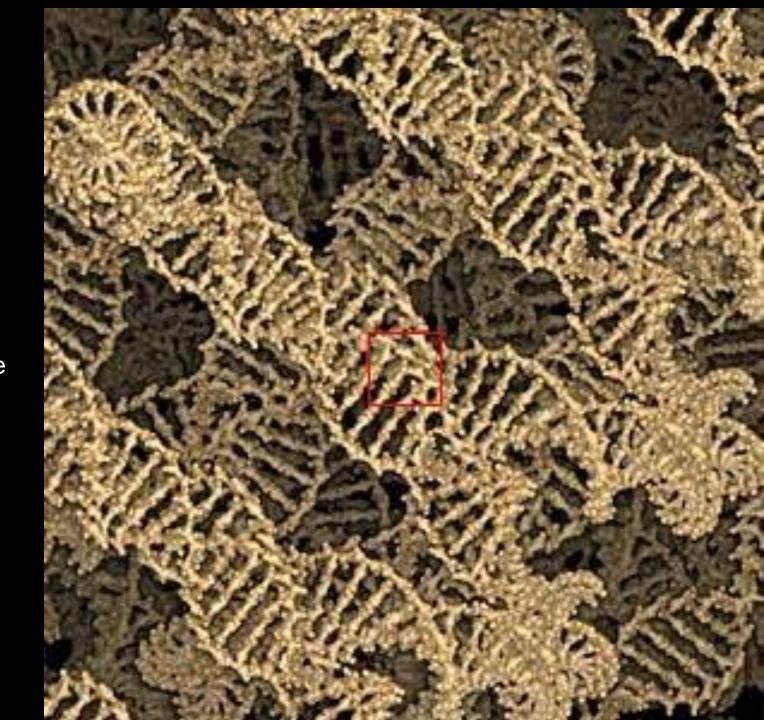
1.000 angstrom (10⁻⁷ m)

You can see the chromosomes.

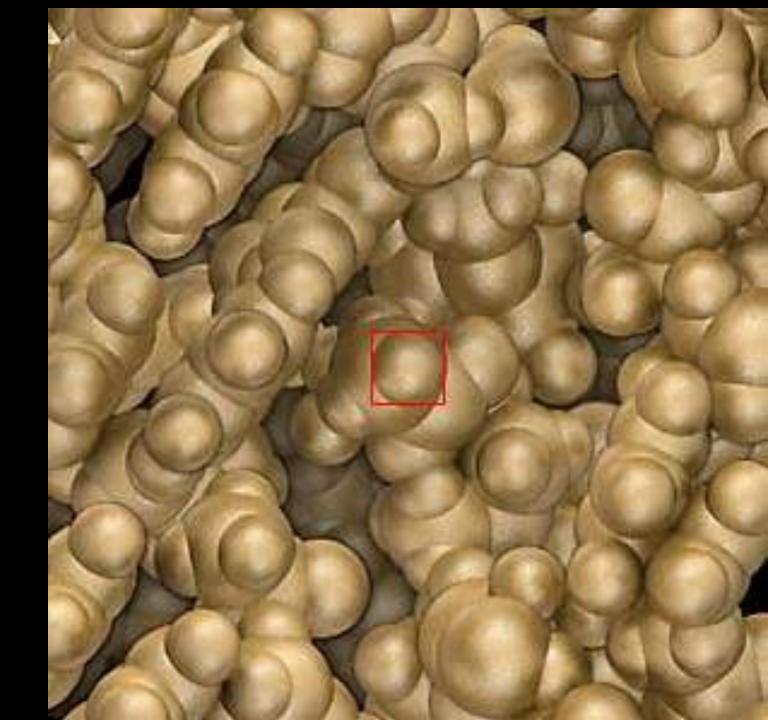


100 angstrom (10⁻⁸ m)

You can see the DNA chain.



1 nanometer (10⁻⁹ m) The chromosome's parts.



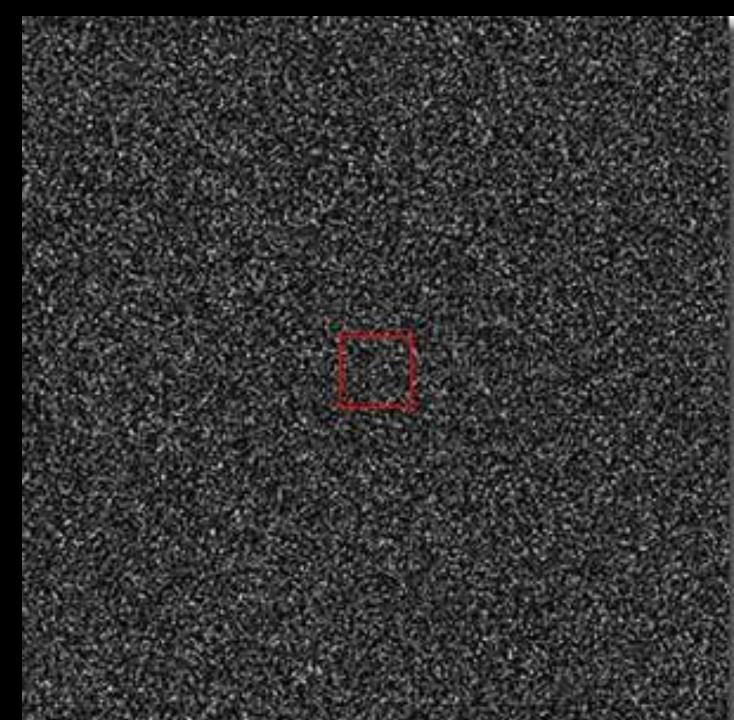
1 angstrom (10⁻¹⁰ m)

A carbon atom - life is based on it



10 picometer (10⁻¹¹ m)

The electron within the atom



1 picometer (10⁻¹² m)

The orbits of the electrons

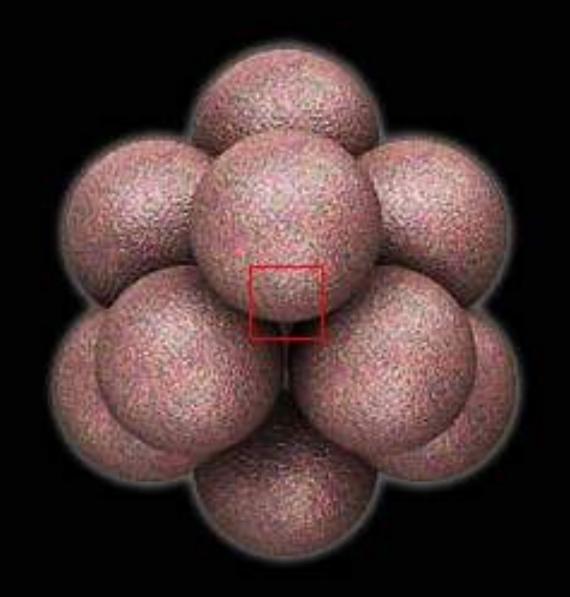


100 fermi (10⁻¹³ m) The atom's interior



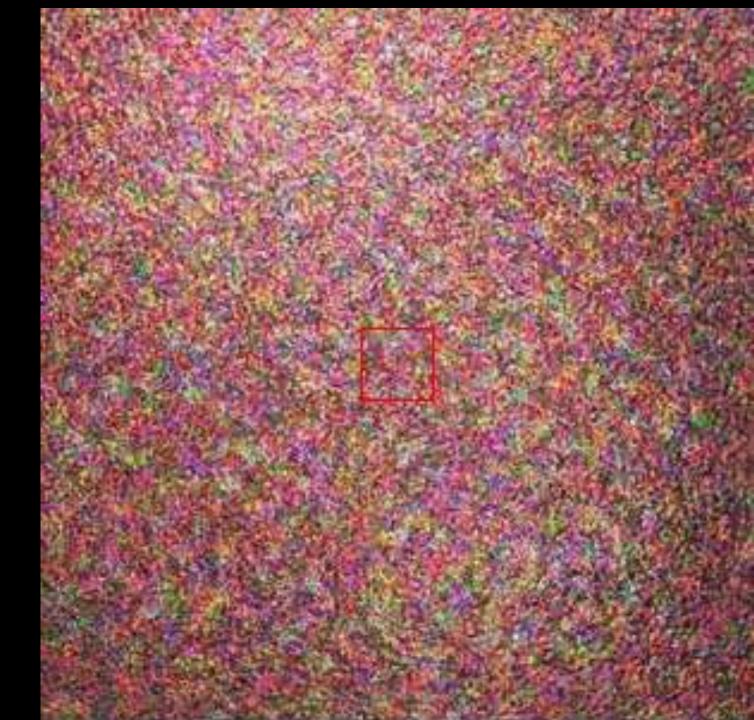
10 fermi (10⁻¹⁴ m)

Closer to the nucleus



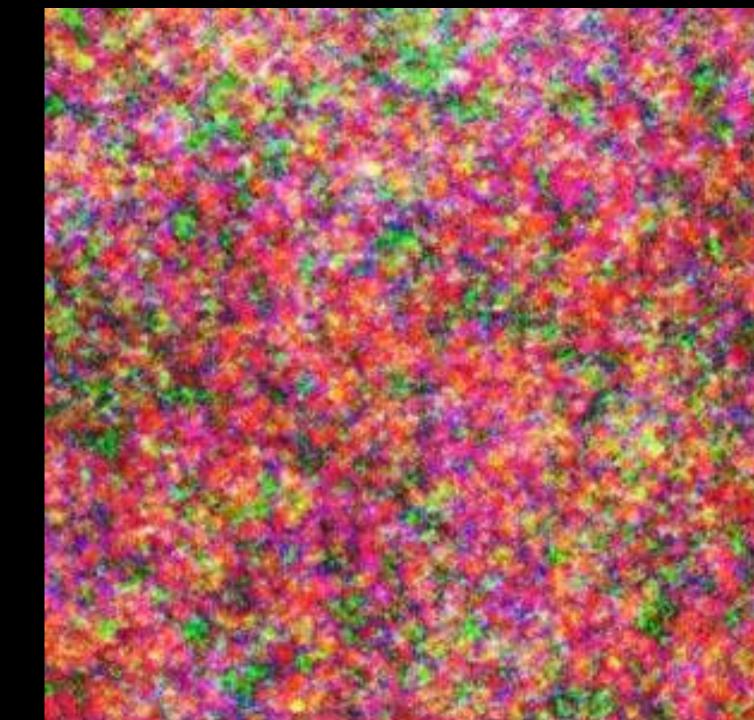
1 fermi (10⁻¹⁵ m)

A neutron's surface



10⁻¹⁶ m We can see the quarks!

End of trip!



After this journey ask yourself:

 Can you say whether you are big or small?

Now ponder ...

NASA (USA)