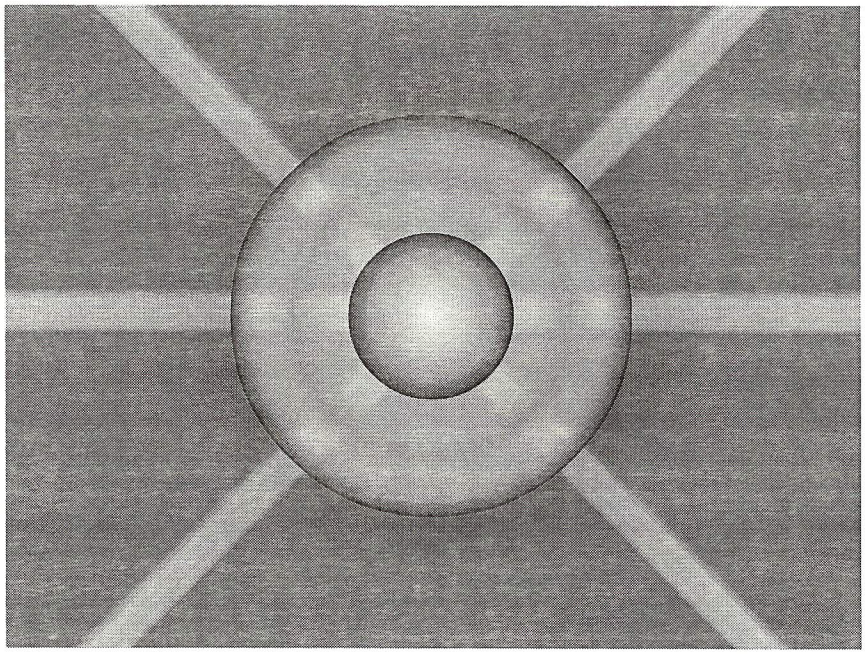
BrainPOP FYI

SCIENCE > SPACE > BIG BANG

IN DEPTH

There was a lot going on immediately after the Big Bang—check out this detailed timeline of events after the universe began! Note, that a **Kelvin** is a unit of temperature, similar to a degree. Absolute zero, or -273.15 degrees Celsius, is 0 Kelvin.



10^-43 seconds after the Big Bang (.00000000000000000000000000000000000001 seconds): Ambient temperature was 10 ^32 Kelvin, and gravity first began to take hold within the tiny universe.

10^-12 seconds after the Big Bang: The temperature was 10^27 Kelvin, and protons and neutrons began to form.

0.01 seconds after the Big Bang: The temperature was 10^11 (100 billion) Kelvin, and electrons began to form.

3 minutes after the Big Bang: The temperature was 1 billion Kelvin, and protons and neutrons combined to form the first atomic nuclei.

300,000 years after the Big Bang: The temperature was 3,000 Kelvin (about 2,727 degrees Celsius), and electrons began to combine with atomic nuclei to form the first atoms.

1 billion years after the Big Bang: The temperature was 20 degrees Kelvin (-253 degrees Celsius), and the first galaxies began to form.

13.7 billion years after the Big Bang: You're reading this FYI! The universe is about 2.73 Kelvin, or about -270.40 degrees Celsius.

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