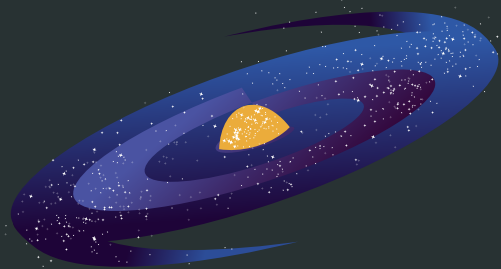
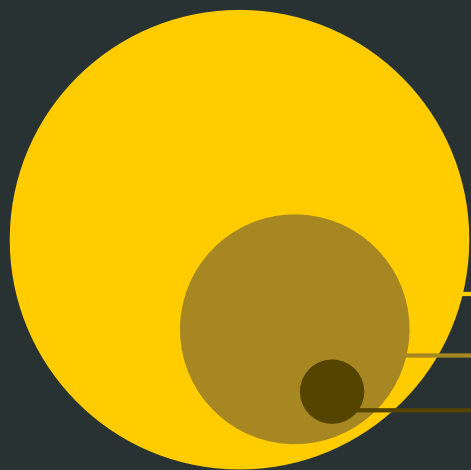


WHAT'S A... STAR?

A ball of fire supported by the **balance** between gravity and fusion



There are between 100 and 400 billion stars in our galaxy.



THE SUN > 100 x Earth Radius

~71% Hydrogen
~27% Helium
~2% other

~1 million x Earth mass

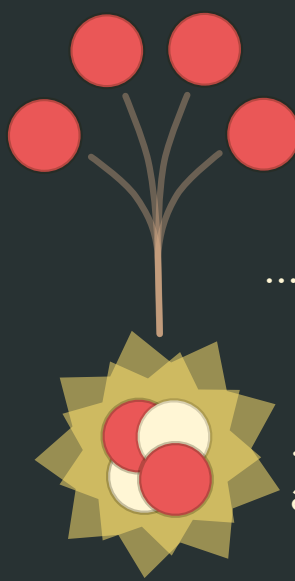
Stars are powered by nuclear fusion

It makes them **shine** and **stops** them from **collapsing** under their own weight.

It **creates new elements** that were not made during the Big Bang and releases **energy**.

Stars are the factories of the

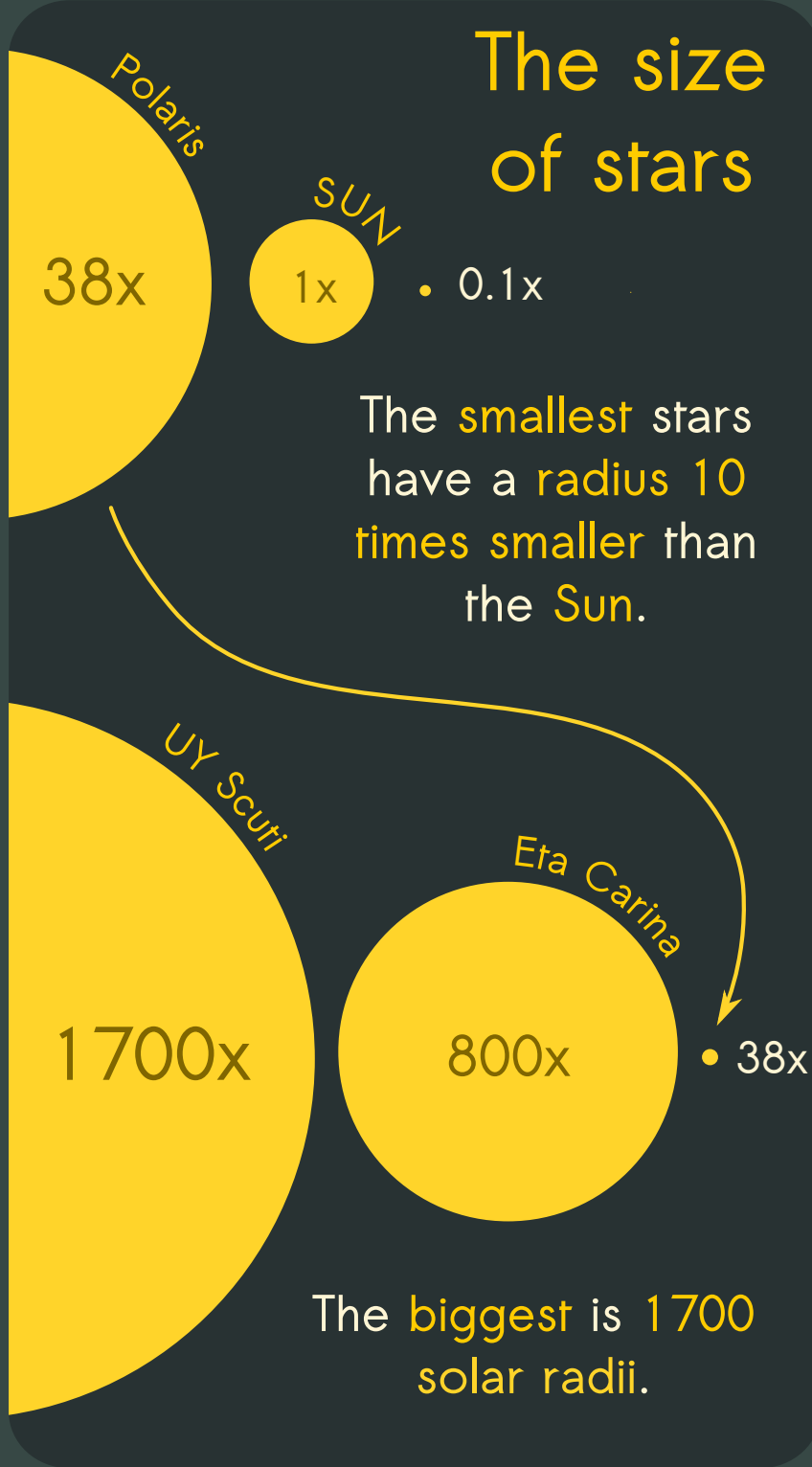
Most common nuclear reaction in stars



4 Hydrogen...

...fuse to create...

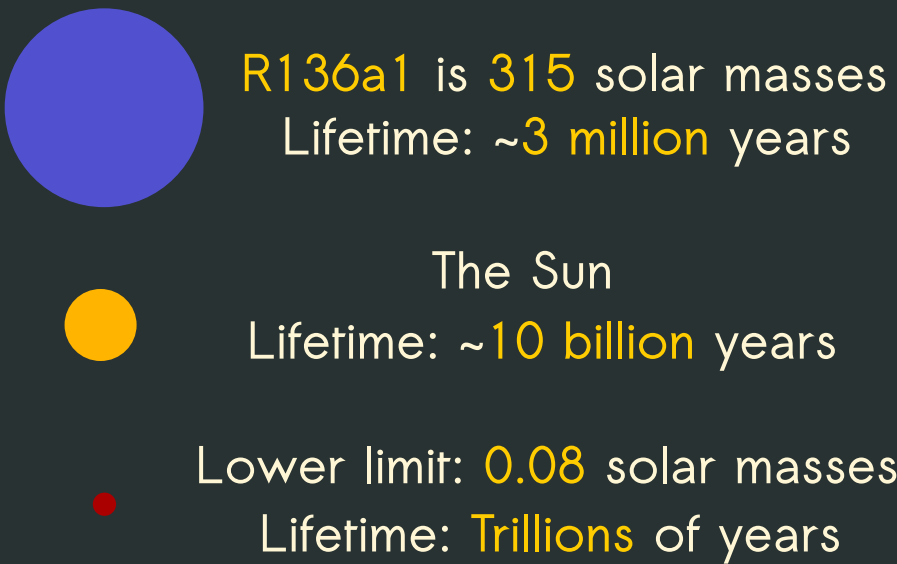
... 1 Helium and a lot of energy.



The Stellar Thermometer



The heavier the star the shorter the life.



Stars die when nuclear fusion stops for good

