

# How big are stars?

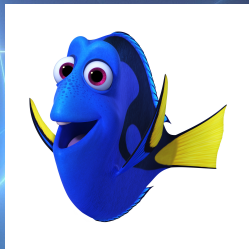
*Dr. Dorottya Szécsi*



Astronomy on Tap Köln  
5th November 2020, Cologne, Germany

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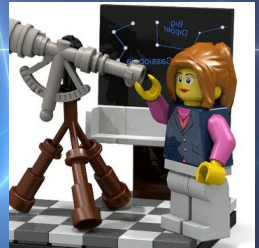
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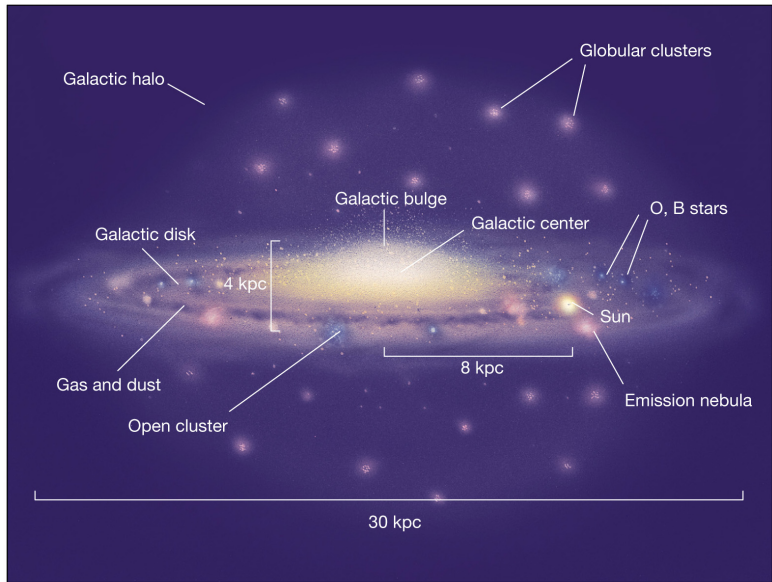
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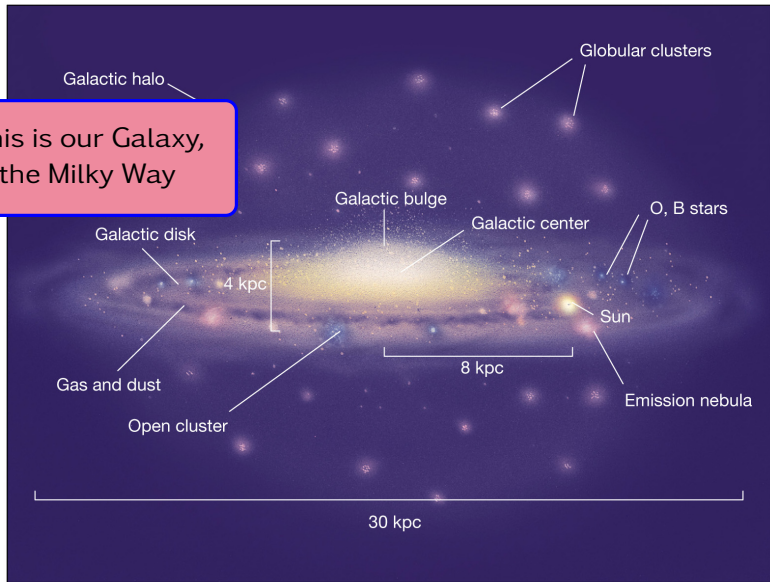
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This is our Galaxy,  
the Milky Way



Credit for video:  
**Youtube channel 'xedor2003'**

*Planet Earth compared to other planets and stars in size.*  
<https://www.youtube.com/watch?v=octRYMsiLX0>

Question:

**SIZE vs. MASS**

Are these the same?

Question:

**SIZE vs. MASS**

Are these the same?

**No.**



Astronomers use big telescopes...



Astronomers use big telescopes...

...to measure **brightness** AND **color** of stars...

The background features a large, faint white circle centered in the upper half. Overlaid on this are several thin, glowing lines in shades of blue, purple, and pink that intersect to form a complex, web-like pattern. The overall aesthetic is clean and futuristic, with a light gray gradient background.

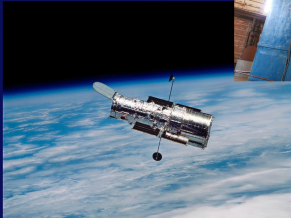
# Astronomers use big telescopes...

...to measure **brightness** AND **color** of stars...



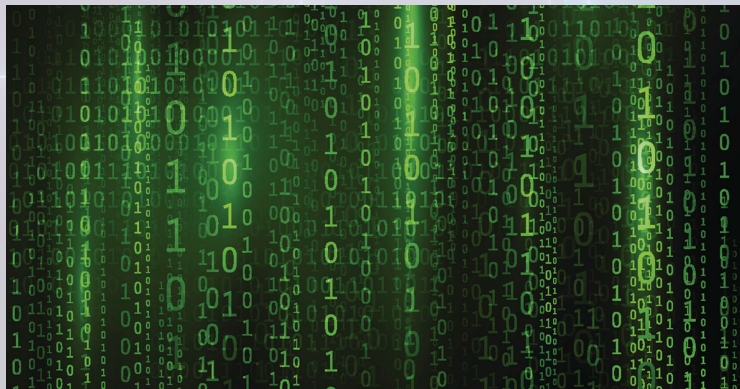
# Astronomers use big telescopes...

...to measure **brightness** AND **color** of stars...



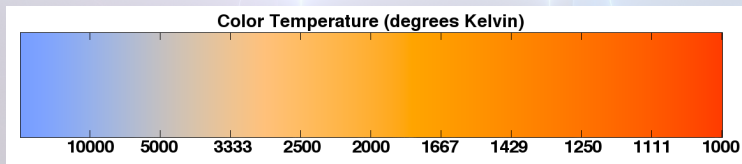
# Astronomers use big telescopes...

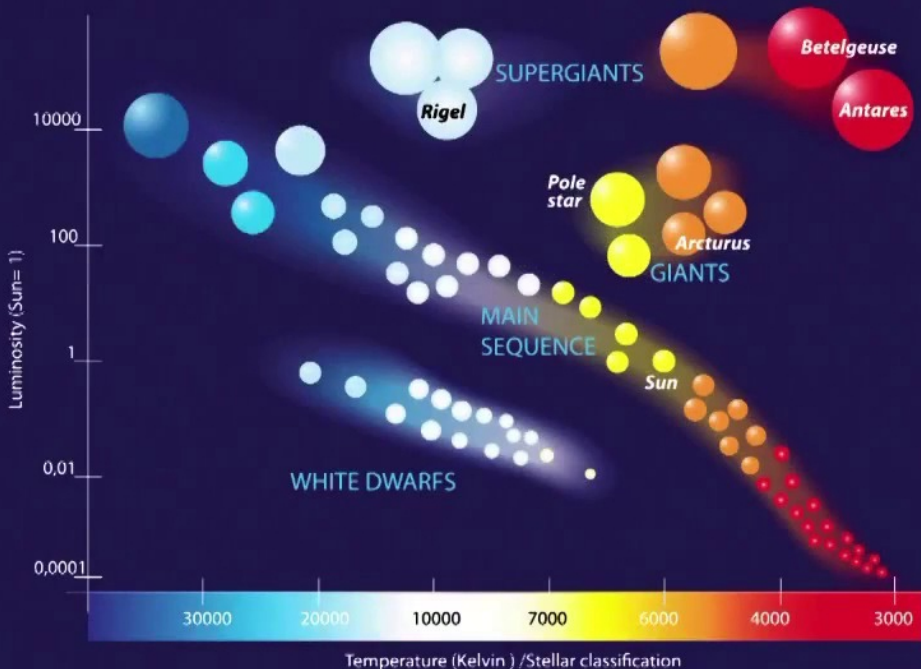
...to measure **brightness** AND **color** of stars...

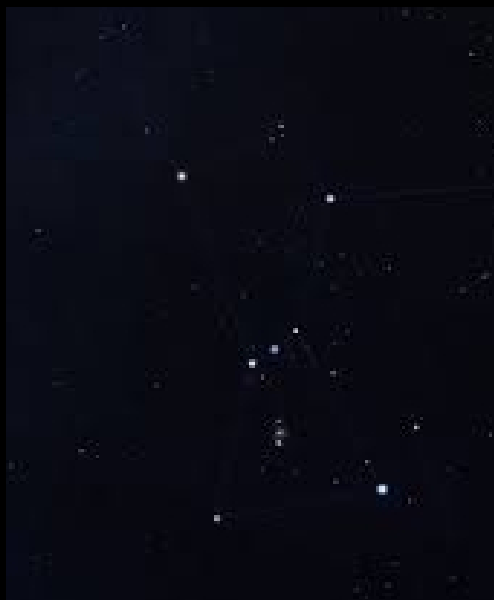


# Astronomers use big telescopes...

...to measure **brightness** AND **color** of stars...















Betelgeuse

Rigel

## Southeast, Winter Evenings



Credit for video:  
Youtube channel 'MetaBallStudios'

★ *UNIVERSE Size COMPARISON* ★ [EVERYTHING]  
<https://www.youtube.com/watch?v=NrRPg0pH9xc>

Credit for video:  
Youtube channel 'spoonexXL'

*PLANET EARTH view from space in HD*  
<https://www.youtube.com/watch?v=btz1L25Ut0o>



Ask your **QUESTIONS**  
in the chat!