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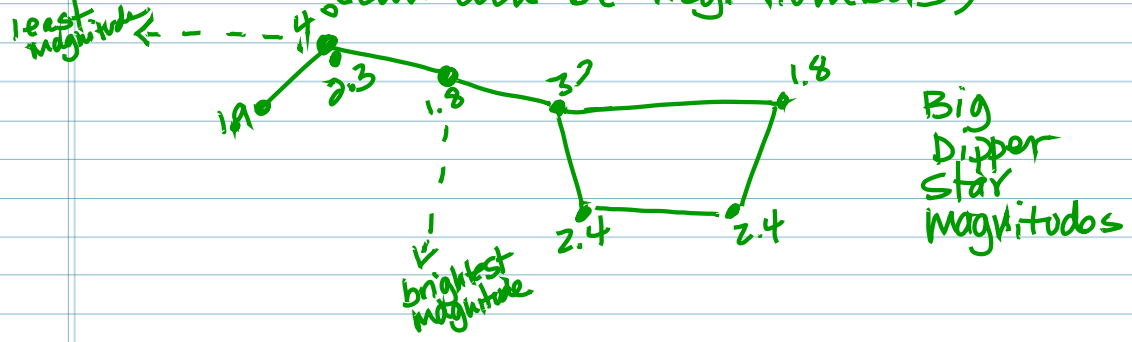
Ch 8 Stars

stars →
- huge ball of burning gas
- made of hydrogen + helium
- some carbon, oxygen + nitrogen
- stars are trillions (+) miles away
- they're visible because they're so big
- blue stars - hotter
- yellow stars - less hot
- red stars - coolest
- scientists know size of star by color
- scientists use spectrograph to break a ~~star~~ stars light into spectrum to know what elements make it up
- scientists classify stars by brightness and temp.
- stars are given a magnitude # brightest stars → lowest numbers (can even be neg. numbers)



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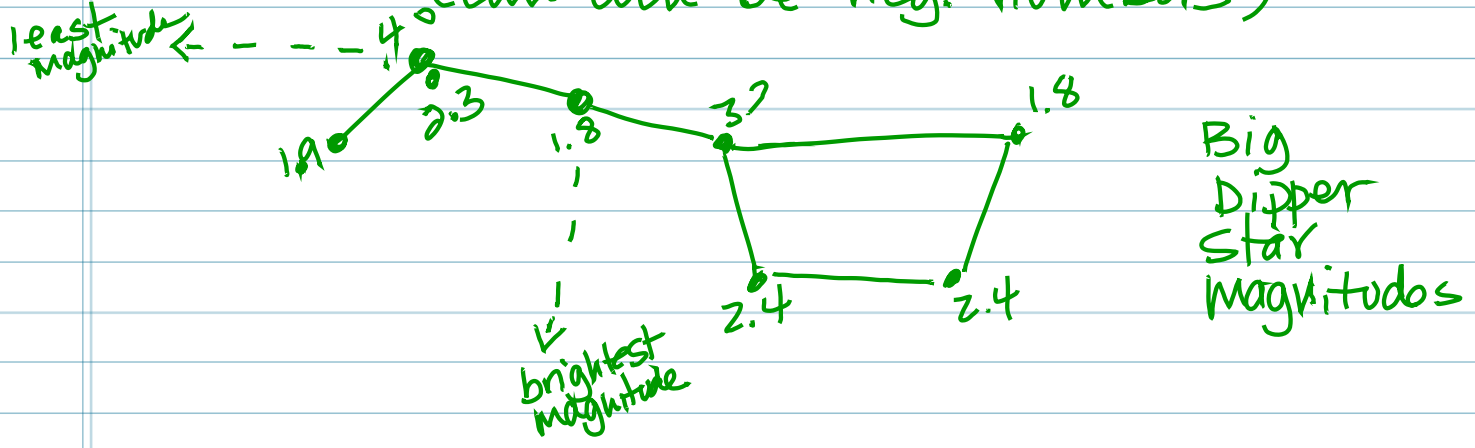

apparent magnitude - how star looks on Earth

absolute magnitude - actual brightness of star

example - Sun absolute magnitude = +4.8
apparent magnitude = -26.8
(it's so close)

parallax - stars nearby (relatively speaking) seem to move (we are)
think of driving by a large mountain → it "seems" to move. It's not, we are in the car.

light-year = about 6 trillion miles
* distance
length light travels in one years time.
186,000 m/sec.