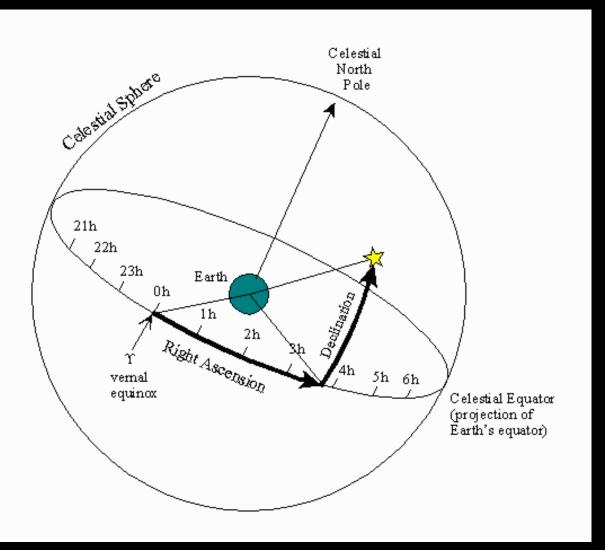
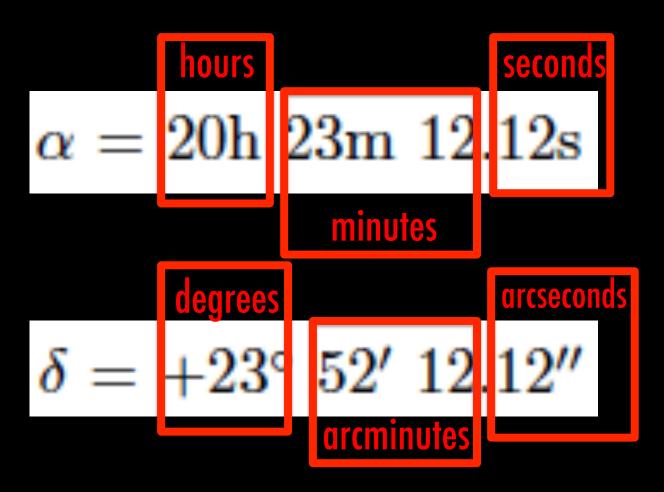
Quick Stars Tutorial

Right Ascension & Declination



RA & Dec Units



RA & Dec Conversions

$$1^{\circ} = 60' = 3600''$$

 $1' = 60''$

```
24 \text{ hours} = 360^{\circ}
1 \text{ hour} = 15^{\circ}
1 \text{ minute} = 15'
1 \text{ second} = 15''
```

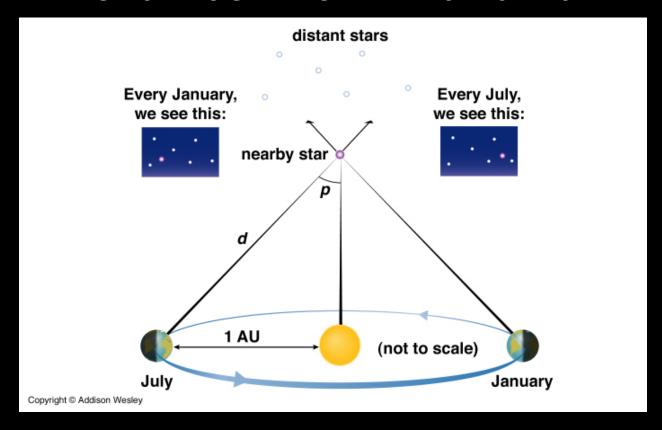
Magnitude & Brightness

- Brighter object = lower mag
- V mag = 540 nm (visible light)
- B-V = color index
 - —Lower B-V = bluer
- Magnitude scale is logarithmic

Difference in Brightness

Difference in Brightness = $2.512^{\Delta m}$

Distance from Parallax



Absolute Magnitude

Apparent mag
$$M=\overset{\downarrow}{m}+5(\log_{10}P+1)$$

Parallax (arcseconds)

Proper Motion

