













### Orion (constellation)

- Orion ("The Hunter") is also an asterism
- Betelgeuse ("Hand of the Central One"); his shoulder
- M2I, ~640 ly away; 10th brightest star
- Rigel ("Left leg of the Central One"); Orion's knee
- B8I, 770 ly away; ~60 times size of Sun, 7th brightest star
- has three bright blue stars in his 'belt'
- middle "star" of his sword is Great Orion Nebula (M42)
- Orion's dogs, Canis Major & Canis Minor
- Sirius ("Dog Star"), A1V, brightest star in sky, 9 ly away

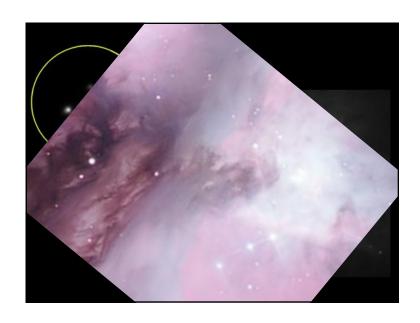


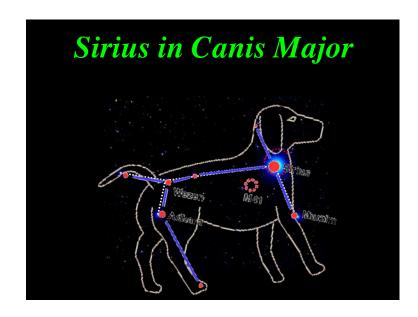
# Betelgeuse (HST, 96) Antares Betelgeuse (HST, 96) One of only a few stars directly imaged (besides Sun) maximum diameter~10 AU (~1000 x Sun!), ~20 x mass has recently "shrunk" and dimmed...???







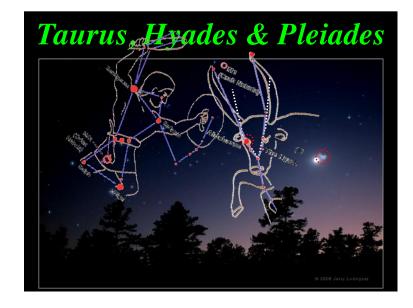




#### **Taurus**

(Zodiac constellation)

- Taurus ("The Bull")
- Aldebaran ("Cor Tauri")
- brightest of Hyades cluster ("V" that is Taurus' "face")
- K5III, 770 ly away; 13th brightest star
- behind Taurus are the 7 Sisters (Pleiades, Subaru)
- Taurus protects the Pleiades, fights Orion

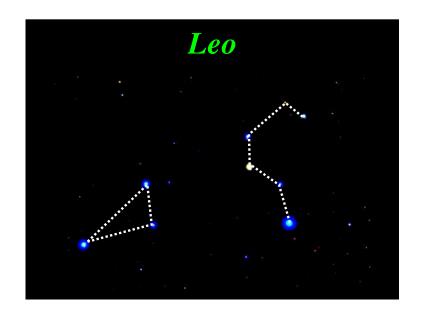




## Leo (Zodiac constellation) • killed by Hercules as one of his 12 tasks • Regulus (or "Cor Leonis"), B7V, 78 ly away • Denebola ("Lion's Tail"), A3V, 36 ly away • connect first two stars in bucket of Big Dipper • "sickle" asterism (Leo's "head")

• looks like *backwards question mark* 

• "bucket of Big Dipper hits Leo on the head"



#### Gemini & Auriga

(Zodiac constellation, constellation)

- "The Twins"
- Castor (A1V, 52 ly) & Pollux (K0III, 34 ly)
- Pollux was son of Zeus, Castor a mortal
- sailed with Jason and the Argonauts
- Auriga "The Charioteer"; squashed pentagram?
- Capella ("Little She-Goat")
- G5III, 42 ly away, 6th brightest star

