Star Clusters:

GLOBULAR STAR CLUSTER

Group. of stars held together by mutual gravitational attraction

Group of

OPEN STAR

CLUSTER

Group of tens of thousands to hundreds of thousands of stars

Highly symmetrical ball of stars.

Frequently contains bright red giant stars

Located in the halo or bulge of a galaxy

Composed of old stars that formed when the universe was younger

> No longer forming in our galaxy, the Milky Way

All of its stars are the same age, having formed from the same cloud of gas and dust.

Stars in the cluster are at the same. distance from Earth.

The star colors in a cluster indicate the age of the cluster.

> Orbits the center of a galaxy

hundreds of stars

Irregularly shaped grouping of stars

Contains bright blue stars

Located in the arms, of the Milky Way and other spiral galaxies

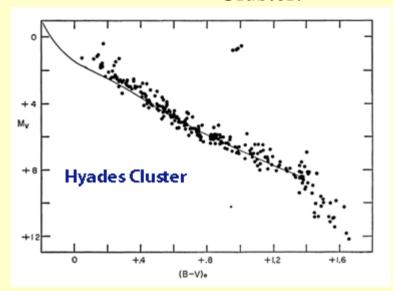
Composed of young stars that recently formed in the disks of galaxies

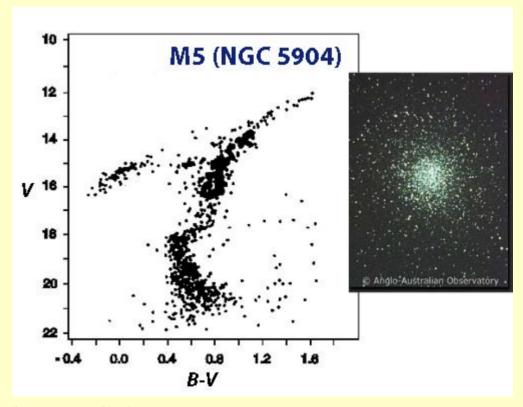
Continues to form in the arms of spiral galaxies, including the Milky Way

Credit to http://amazing-space.stsci.edu/resources/organizers/starclusters.php

CM diagram: open and globular cluster

Credit: Johnson, H. L.; Mitchell, R. I.; Iriarte, B., Astrophysical Journal, vol. 136, p.75 The Color-Magnitude Diagram of the Hyades Cluster.





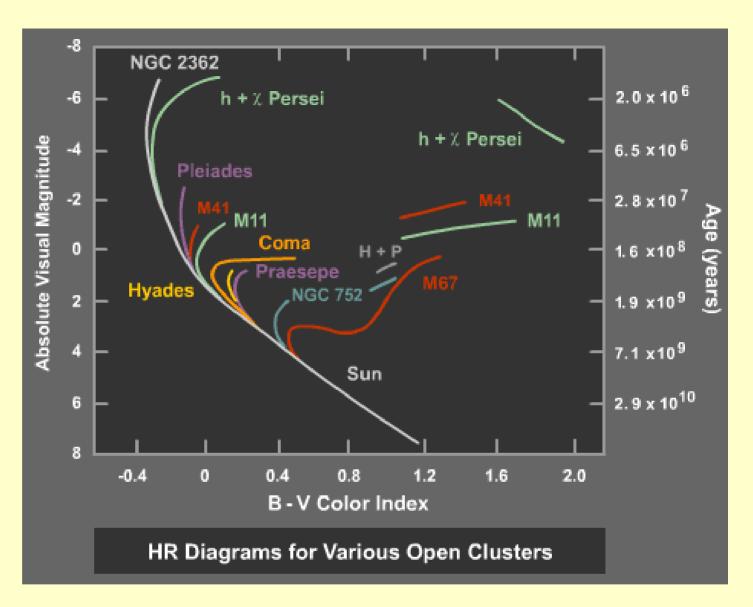
Credit: SEDS (C-M diagram) and AAO (image) Colour-magnitude diagram for and image of the Globular Cluster M5.

Open Clusters: Pleyades



Credit to http://www.bibliotecapleyades.net/universo/open_cluster.htm
And to Wikipedia Website

Open Clusters:

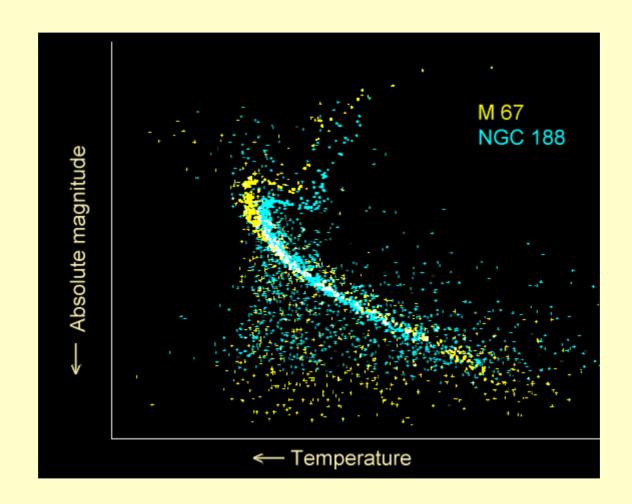


Credit to https://www.e-education.psu.edu/astro801/content/17_p6.html HR diagram with Main Sequence fits for open clusters of different ages Source:

Australia Telescope Outreach and Education; Credit: Mike Guidry, University of Tennessee http://www.atnf.csiro.au/outreach//education/senior/astrophysics/stellarevolution_clusters.html

http://csep10.phys.utk.edu/astr162/index.html

Open Clusters:



Credit to Wikipedia Website

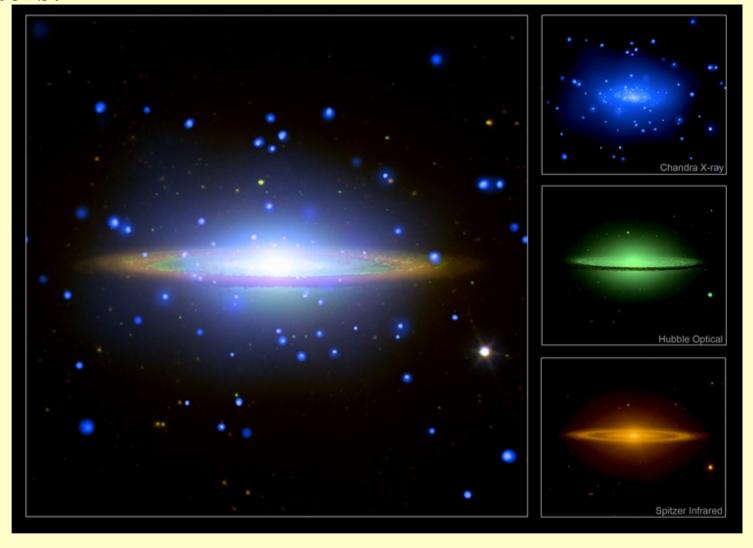
Globular Clusters:



The globular cluster M80 in Scorpius.

Image: Credit to Hubble Space Telescope

Globular Clusters:



Credit to http://scienceblogs.com/startswithabang/2010/05/14/globular-clusters-a-minor-myst/ And Hubble Space Telescope, Chandra Telescope, Spitzer Telescope