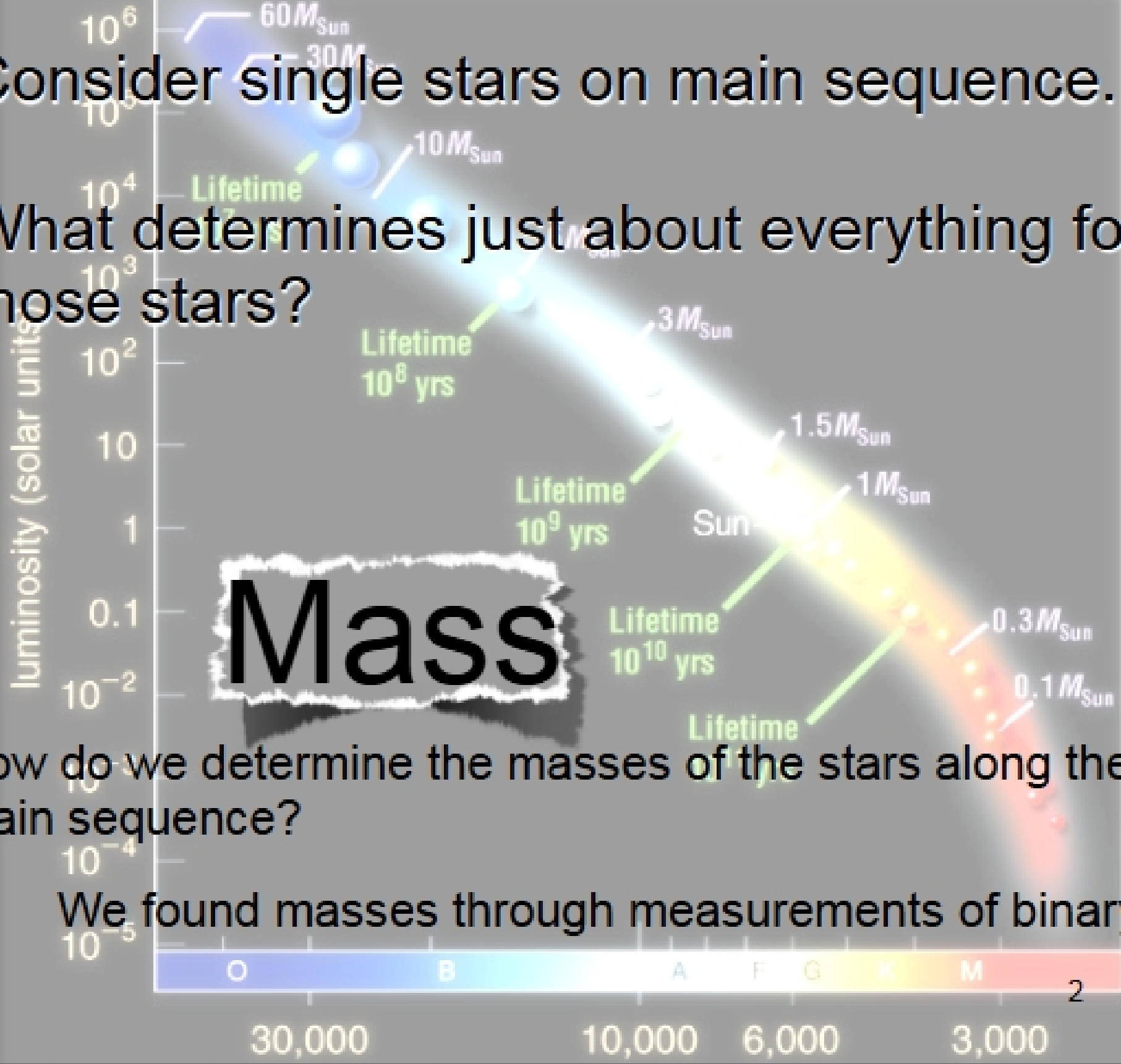


Goals for today: be able to

- Explain why the main sequence turn-off temperature of the stars in a cluster is a good indicator of the age of the cluster.
- Given actual CMDs for open clusters, rank the clusters according to age
- Contrast open and globular clusters when discussing age, location in the galaxy, and number of stars in the cluster

Consider single stars on main sequence.

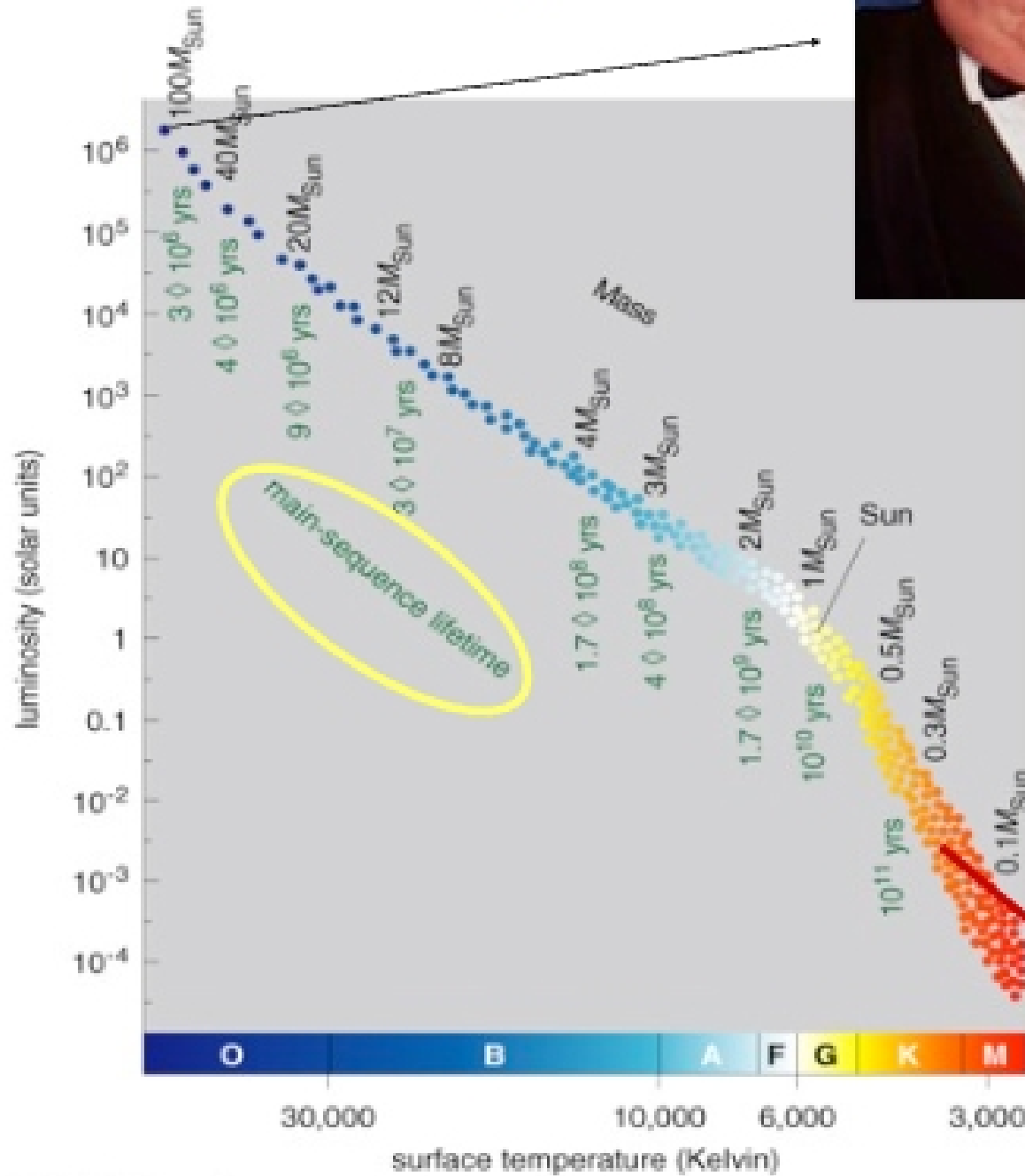
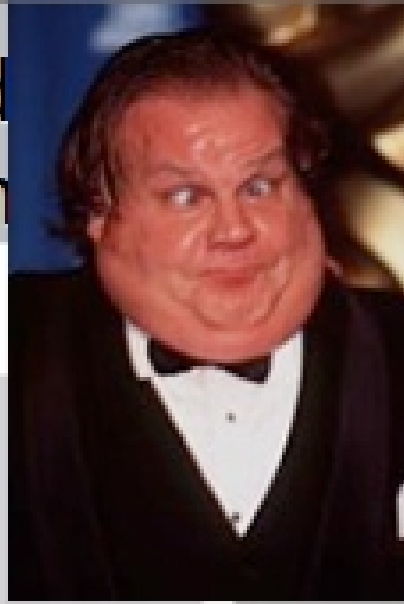
What determines just about everything for those stars?



How do we determine the masses of the stars along the main sequence?

We found masses through measurements of binary stars.

Cosmic Perspective of the evolution of individual stars:



Clusters evolving

