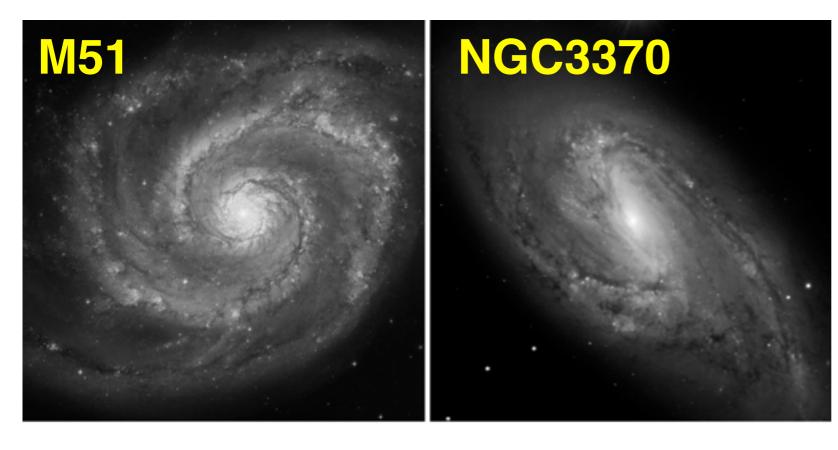
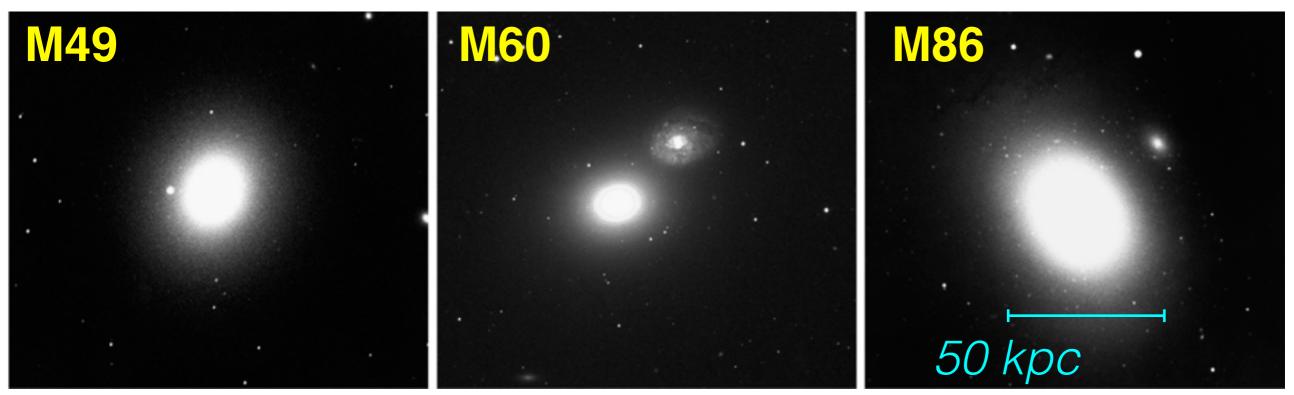
### Spiral and Elliptical Galaxies



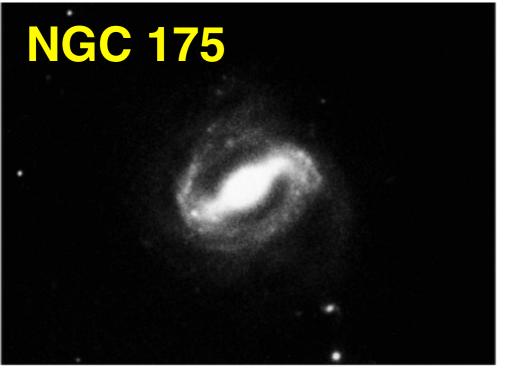
#### Maoz Figure 7.1

Each image about <u>20 kpc</u> across

#### Maoz Figure 7.8



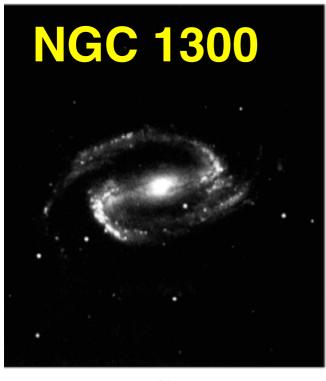
### **Barred Spiral Galaxies**



#### Carroll & Ostlie Figure 25.6

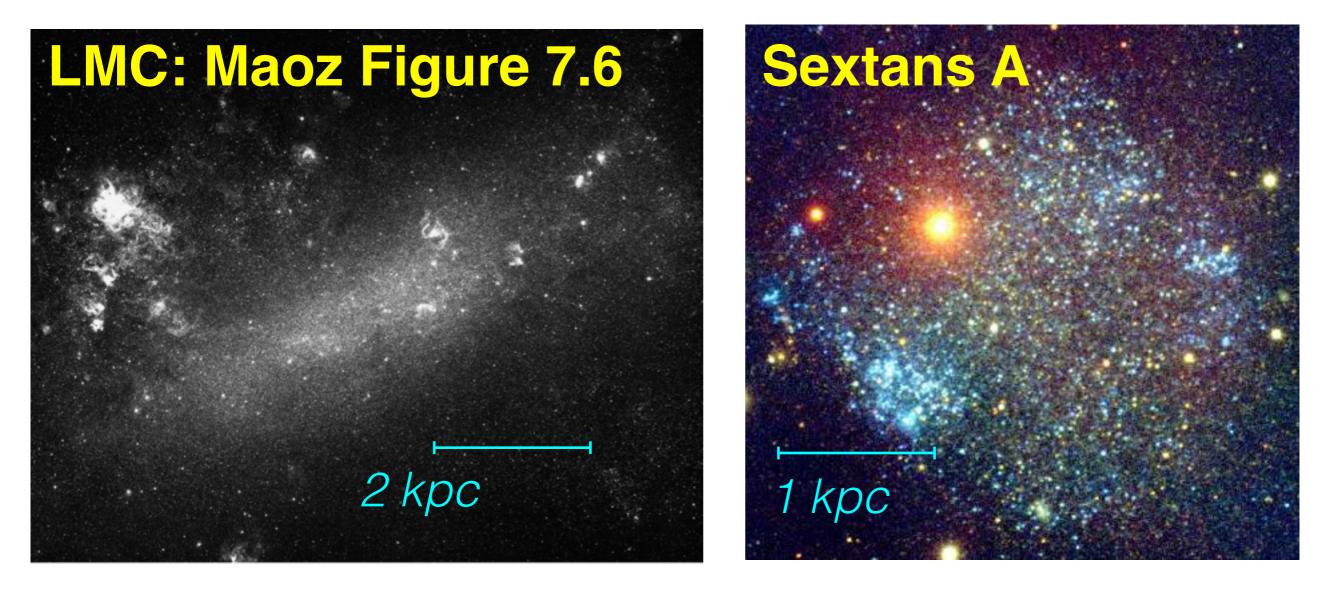
Does the Milky Way Galaxy have the structure of a barred spiral?







## Irregular Galaxies



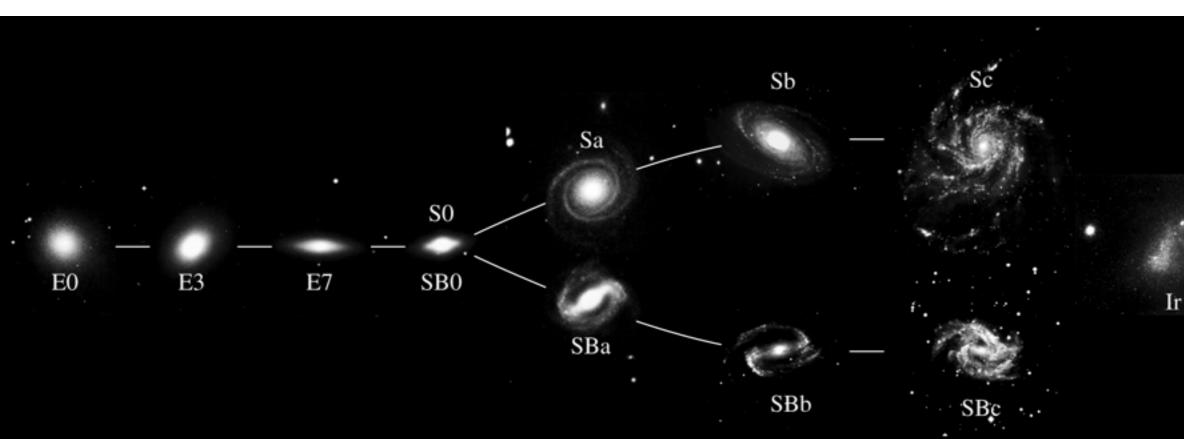
These are small and numerous and tend to hang around near larger galaxies as part of large groups.

# Hubble's "Tuning Fork"

Carroll and Ostlie Figure 25.1

"...Late"

"Early..."



But this is <u>not</u> an evolutionary progression!

# Elliptical Classification

"E $\epsilon$ " where  $\epsilon = 1 - \beta / \alpha$ 

Carroll and Ostlie Figures 25.2 and 25.3

