















## Basic idea behind galaxy formation objects start small and grow by merging.

## We see:

- Smaller galaxies back when *t* ~ 1-7 Gyr. (with caveats)
- Increase in space density of large galaxies since t ~ 7 Gyr = 1/2 current age. (with caveats)
- Lower Spiral/Elliptical ratio in cluster centers.
- Mergers.

## But...

- Not enough very low-mass galaxies at current time
  → SN winds??
- Many E galaxies ended star formation by *t* ~ 7 Gyr
  → AGN feedback.



