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Competitive Analysis

Illustris Simulation

- https://www.youtube.com/watch?v=jx_64y7gA_k
- Features
 - Had a believable distribution of galaxies
 - Galaxies had different sizes and hence brightnesses
 - There was a blurry, gaseous boundary to the galaxies
 - Rotated around the visualization to create dynamic view
 - Could see supernovas
- Anti-features
 - Had unrealistic colors
 - Saw narrow spectrum of universe with limited amount of galaxies
 - The camera panned in a way that made the redshift effect unreliable

Evolution and Assembly of GaLaxies and their Environments (EAGLE)

- <https://www.youtube.com/watch?v=5F6bDRcy-mA>
- Features
 - Shows links between galaxy clusters and superclusters
 - Differentiated between disk and spiral galaxies
 - Spiral galaxies spin
- Anti-features
 - Showed different scales
 - Showed formation of different types of galaxies
 - Changes between visible/IR light

The Millennium Simulation

- <https://www.youtube.com/watch?v=74lsySs3RGU>
- Features
 - There is a gaseous glow around the galaxies and stars
- Anti-features
 - Zooms in from eagle-eye view of universe
 - Not a dynamic visualization - focuses on structure of universe
 - Differentiates between normal and dark matter
 - Zooms through universe
 - There is music