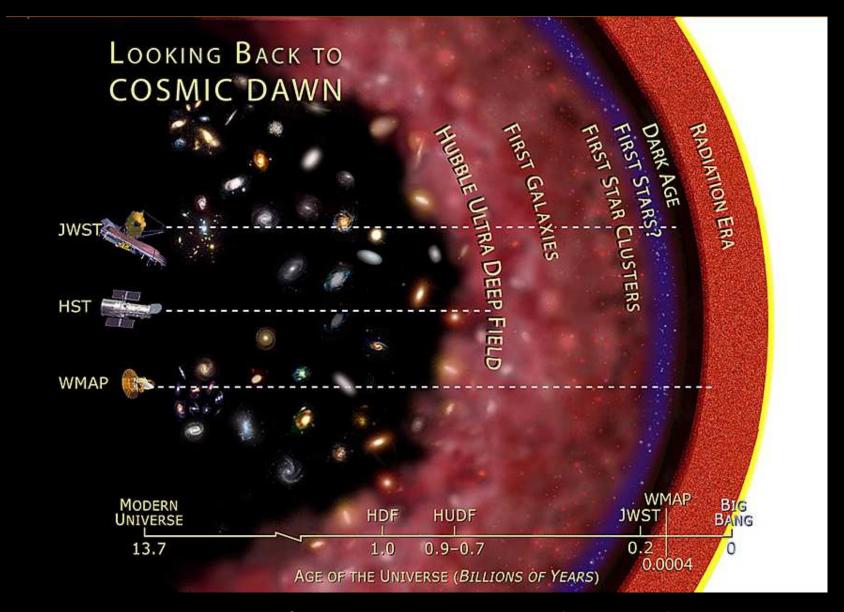
Webb will measure the epochs of First Light and galaxy assembly:



Hubble: Hubble sequence & galaxy evolution after the first 600 Myrs.

JWST: First Light and galaxy assembly during the first 200-400 Myrs.

WMAP: Snapshot of neutral Hydrogen forming 0.38 Myr after Big Bang.

The James Webb Space Telescope (JWST) will observe First Light in the first 200-400 Myrs, in the context of past & future NASA missions:

- Hubble found galaxies *after* the first 500-700 million years.
- Hubble cannot see past $\lambda \ge 2$ microns, and cannot see First Light.
- JWST will see $20 \times longer$ wavelengths & $20 \times deeper$ than Hubble.
- Spitzer measured galaxy masses after the first 800 million years.
- Spitzer also lacks the resolution & sensitivity to see F rst Light.
- JWST will see 10×sharper and 1000×deeper than Spitzer.
- JWST is built to see First Light in the first 200-400 million years.
- JWST will see the first stars and the first young galaxies.
- JWST opens new frontiers, and helps define future missions/projects.
- Please keep NASA FY13 Science budget intact & keep JWST on track.