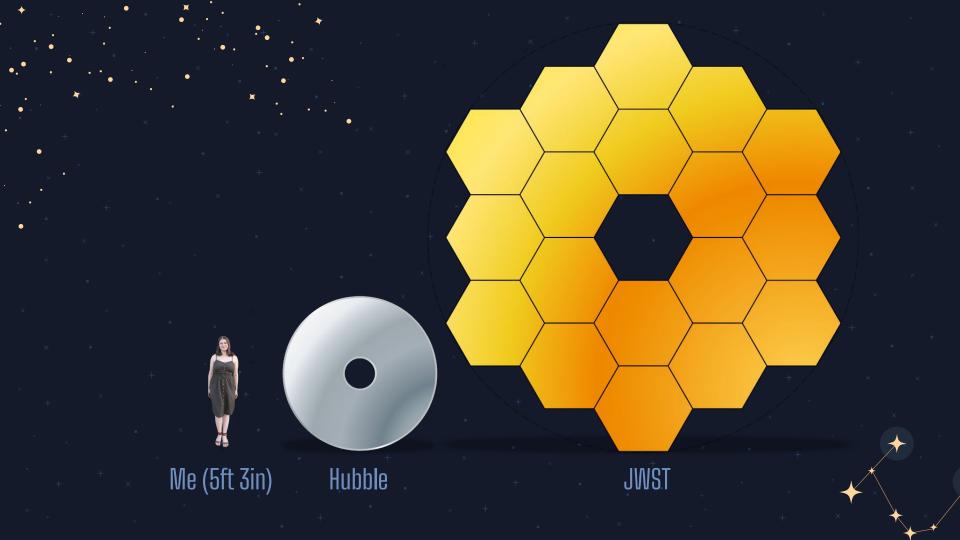
Aliens, Galaxies and the Big Bang: Introducing the James Webb Space Telescope

Natalie Williams - Astronomy in the City November 2021



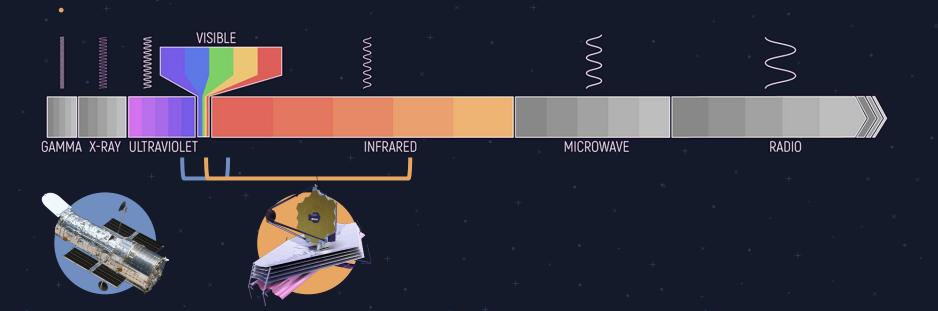
But don't we already have a perfectly good space telescope at home?

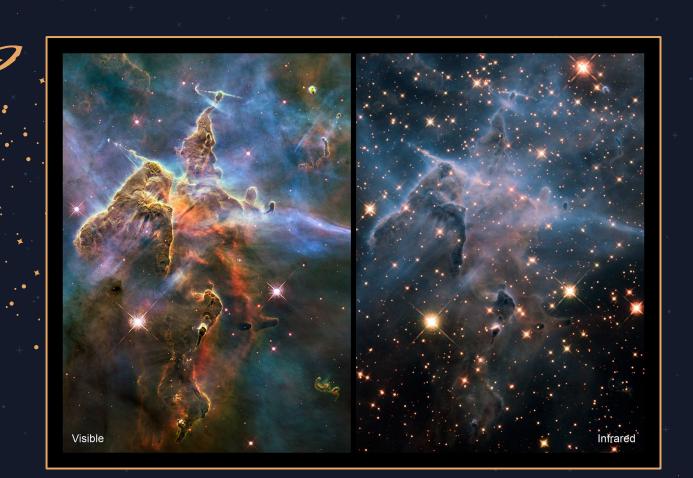






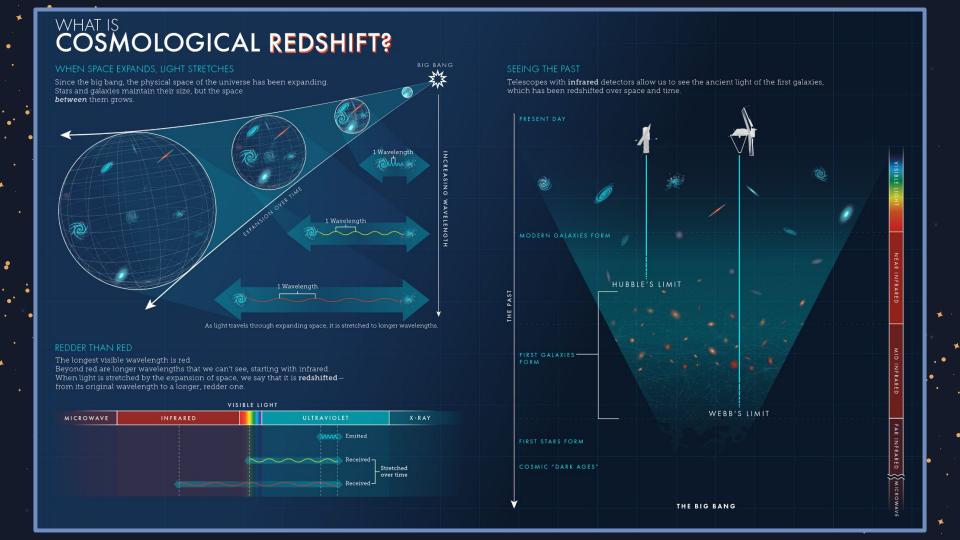
ELECTROMAGNETIC SPECTRUM











NIRCam

Near-Infrared Camera

NIRSpec

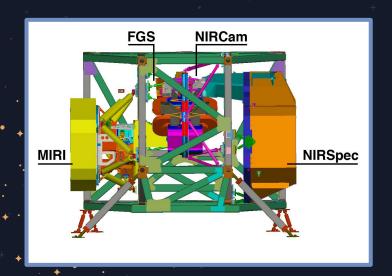
Near-Infrared Spectrograph

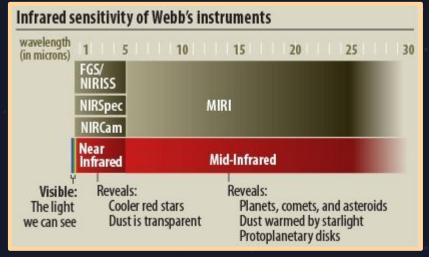
MIRI

Mid-Infrared Instrument

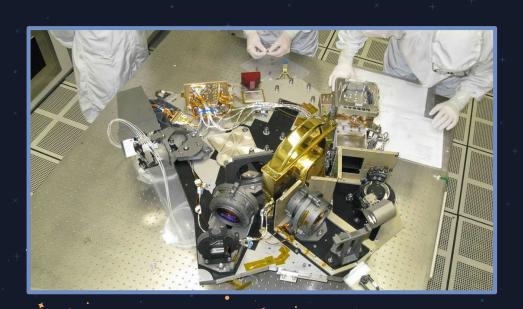
FGS/NIRISS

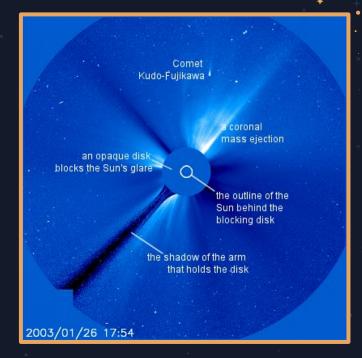
Fine Guidance Sensor/Near InfraRed Imager and Slitless Spectrograph



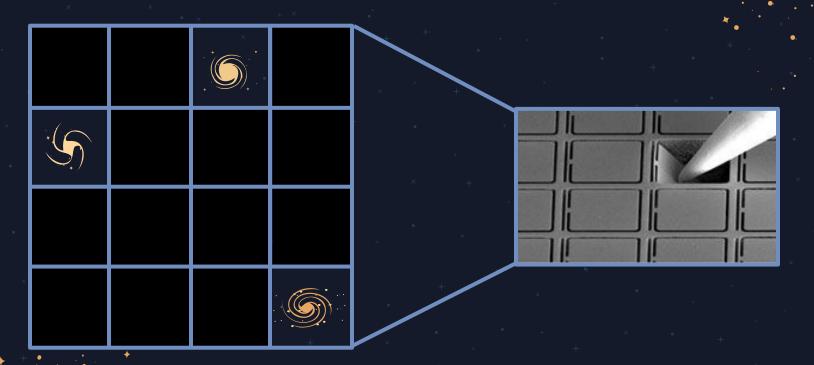


NIRCam: Near-Infrared Camera





NIRSpec: Near-Infrared Spectrograph

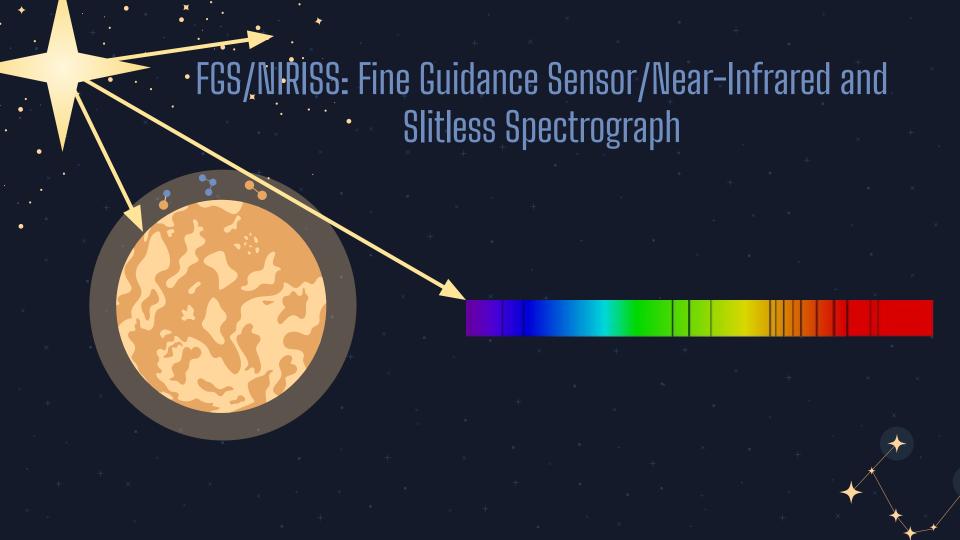


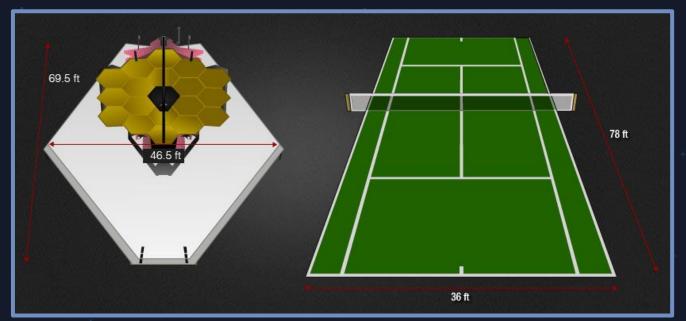


MIRI - Mid-Infrared Instrument

















JWST Main Science Goals

The Early Universe

Looking back to the first galaxies formed after the Big Bang

Galaxies Over Time

Looking at galaxies near and far to see how they evolve

Star Lifecycles

Looking through the dust to study the lives of stars and their planets

Other Worlds

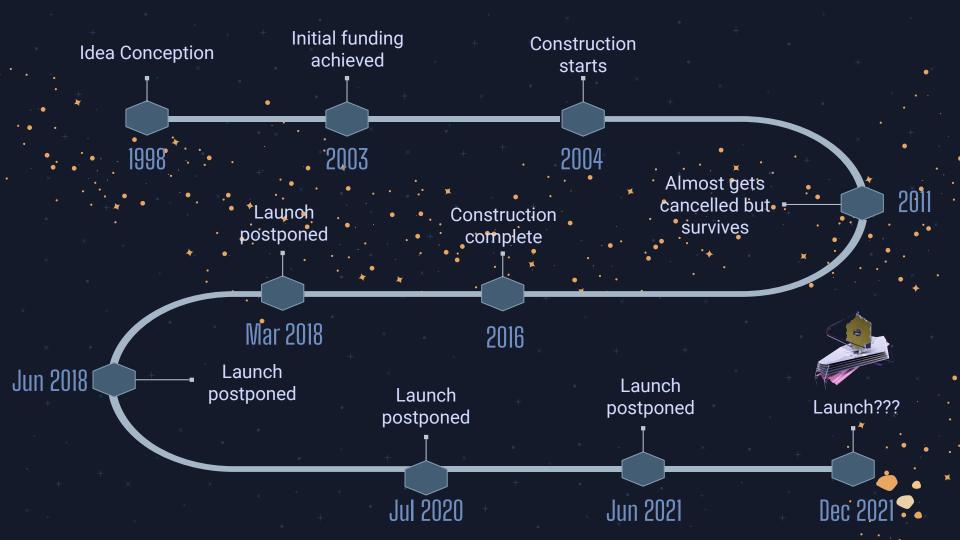
Looking for signs of life in exoplanet atmospheres



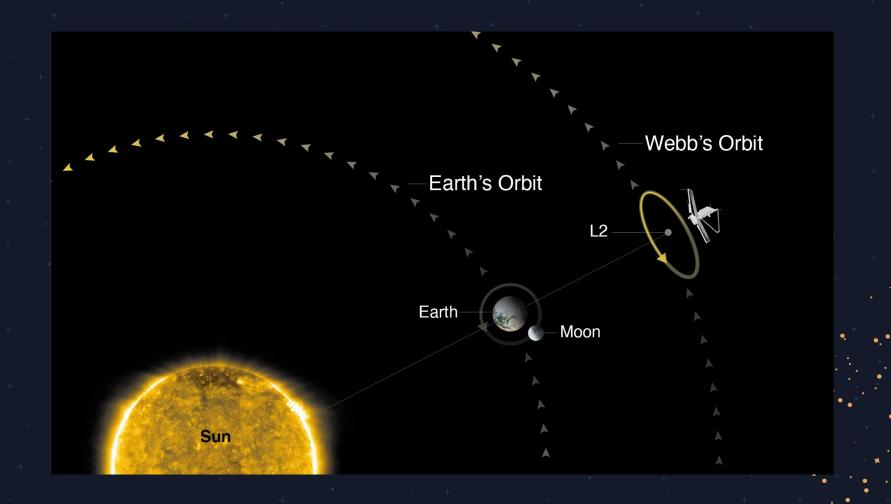


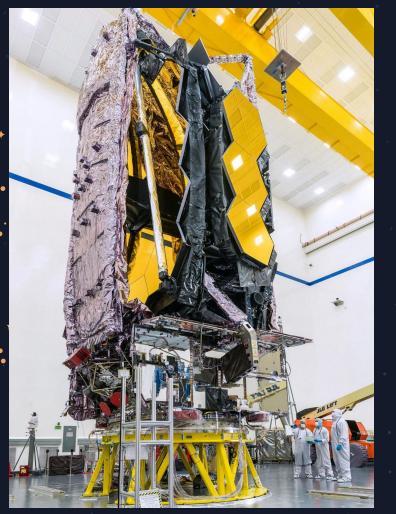
















Good Luck JWST!

12:20pm 18th December
Watch on NASA TV, the NASA app and
www.nasa.gov