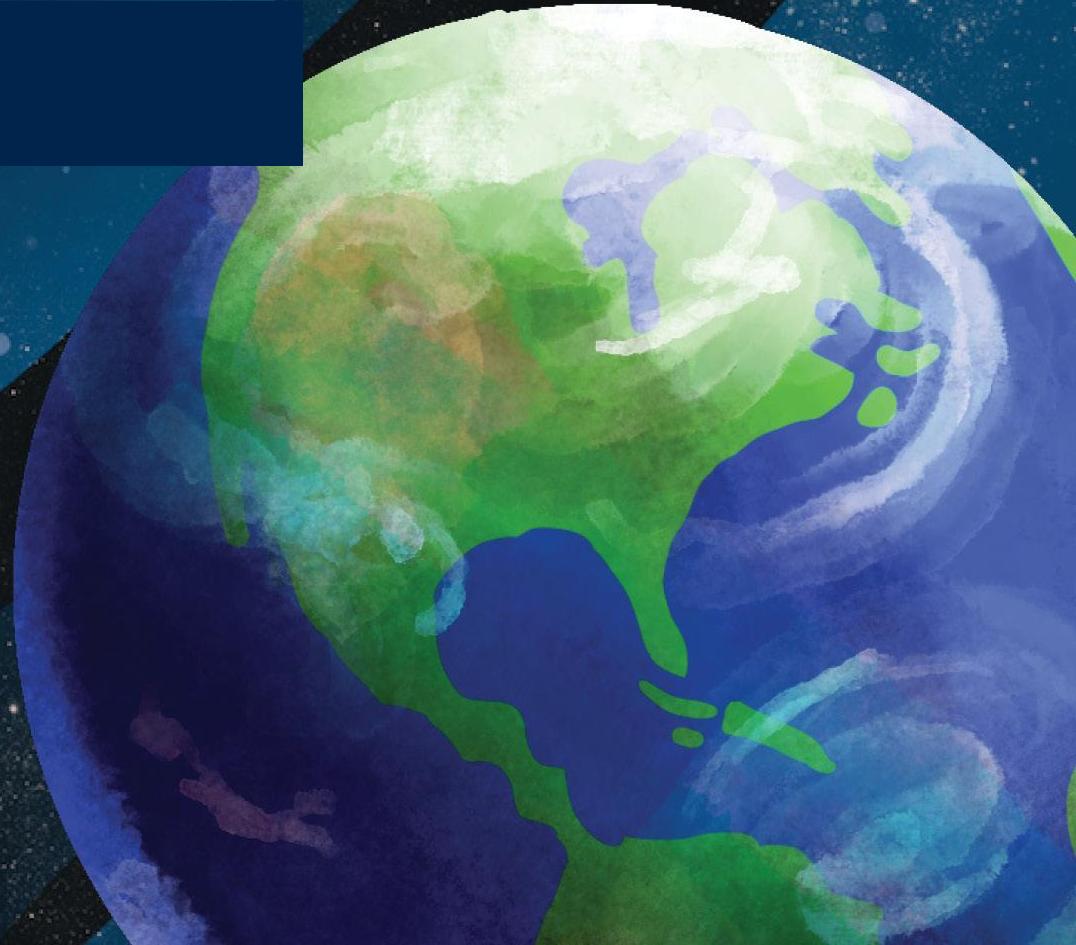


Section Dividers

These types of slides can be used to break up larger topics in the presentation. The following are the next slides coming up.

- Using Placeholders
- Adding Alt text
- Text Accessibility



Using Placeholders



Use the placeholder boxes within the template to insert content. Each layout is formatted with accessibility in mind and should be used accordingly. Placing content using the toolbar could interfere with the reading order for users with screen readers.

Adding Alt Text

- Make sure to add alt text to images that convey information. Screen readers read alt text to better help the user understand it's content. The picture of the rocket to the right contains alt text.
- If the image is purely decorative like a background, mark it as decorative in the “alt text” panel.

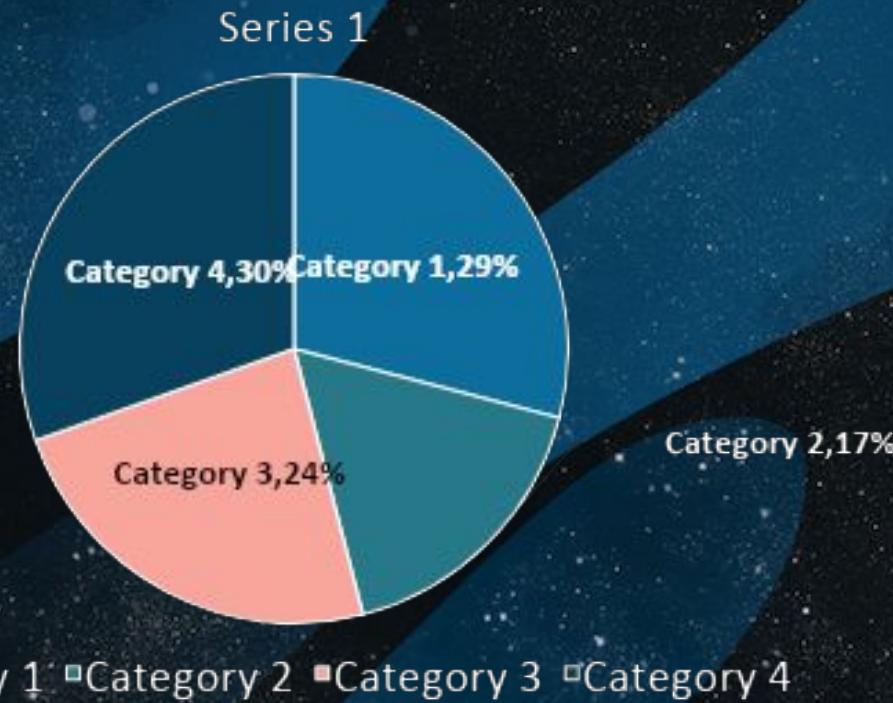


This Photo by Unknown Author is licensed under CC BY-NC

Text Accessibility

- All the slides are formatted with 28pt font. If you need to add more text you can shrink the text to 24pts but no smaller. Keeping text large helps with accessibility.
- If you include charts or graphs it may be hard to keep to 24pts.
 - If you include a chart or graph insert it using the content box like any other slide.
 - Once you're finished making your chart insert alt text into it as you would an image.
 - Pick the points in the graph you are trying to express and type that into the alt text description box.
- The following slide has an example chart.

Chart example



Illustrations for your use



You can copy and paste these illustrations as you see fit in your presentation. They come with alt text already typed in.



We would like your Feedback!

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<https://go.edc.org/NASALibrary>

Para realizar en español:

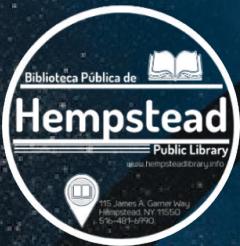
<https://go.edc.org/NASALibraryEspanol>

**NASA@
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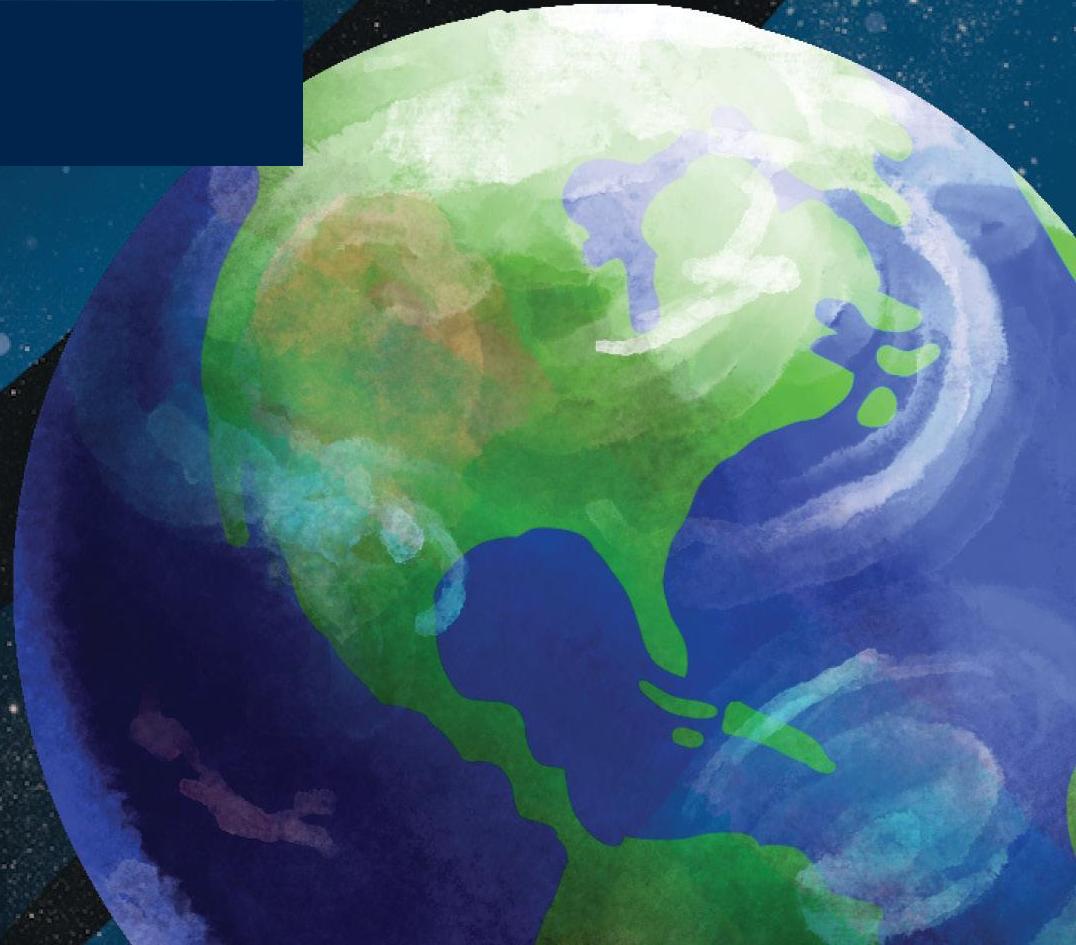


James Webb Space Telescope



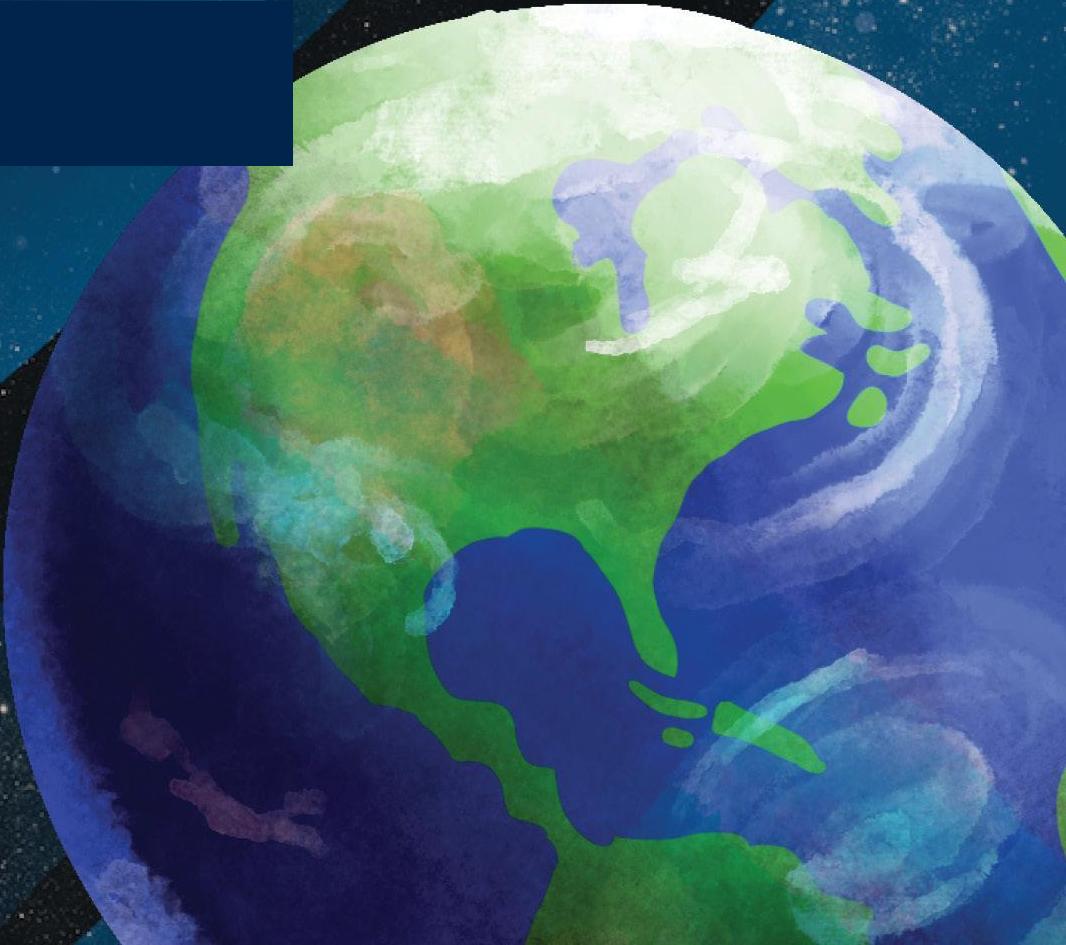
Welcome!

- Introductions
- Housekeeping
- A little about JWST
- Activities!



Who am I?

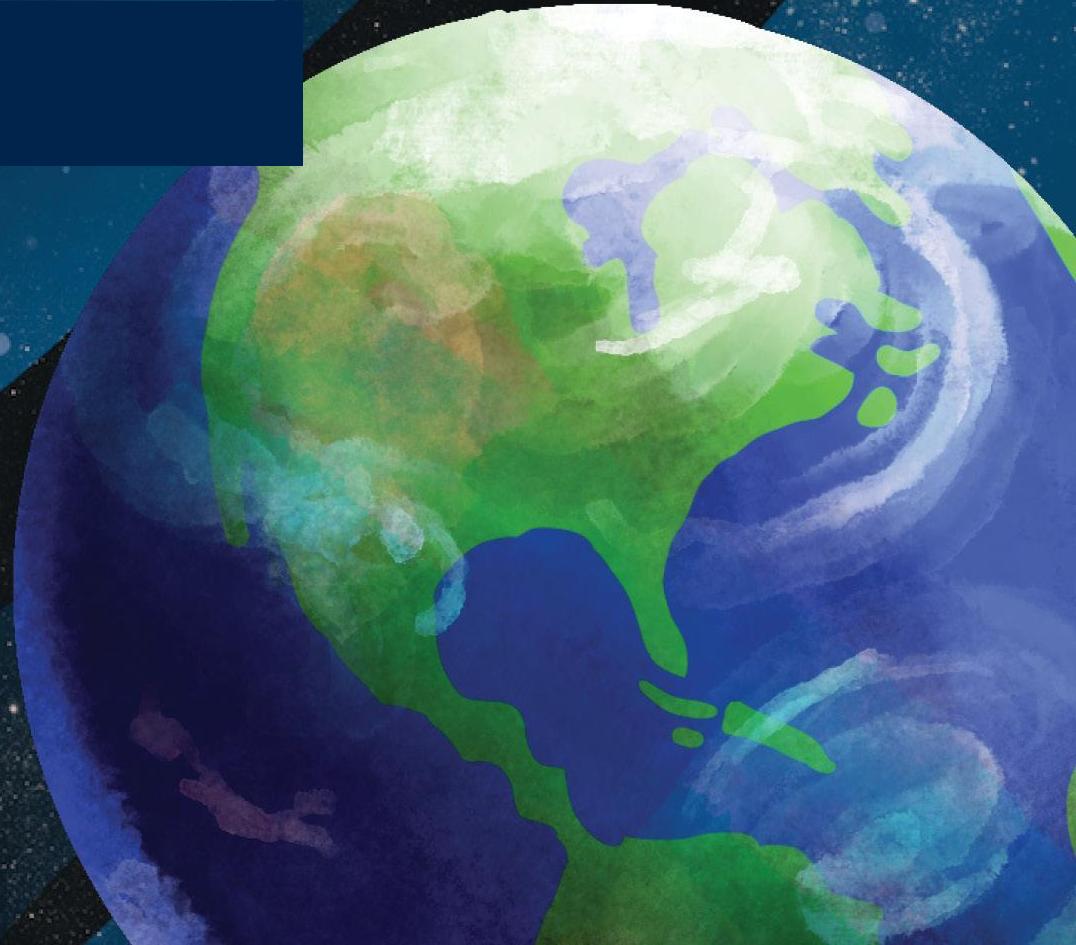
- Old Dominion University,
Norfolk, Virginia
- Cyber Operations
(class of '24)
- Lifelong science
and space lover



Libraries

Rachel Culver
Georgetown Public Library

Stephanie Crocco
Hempstead Public Library

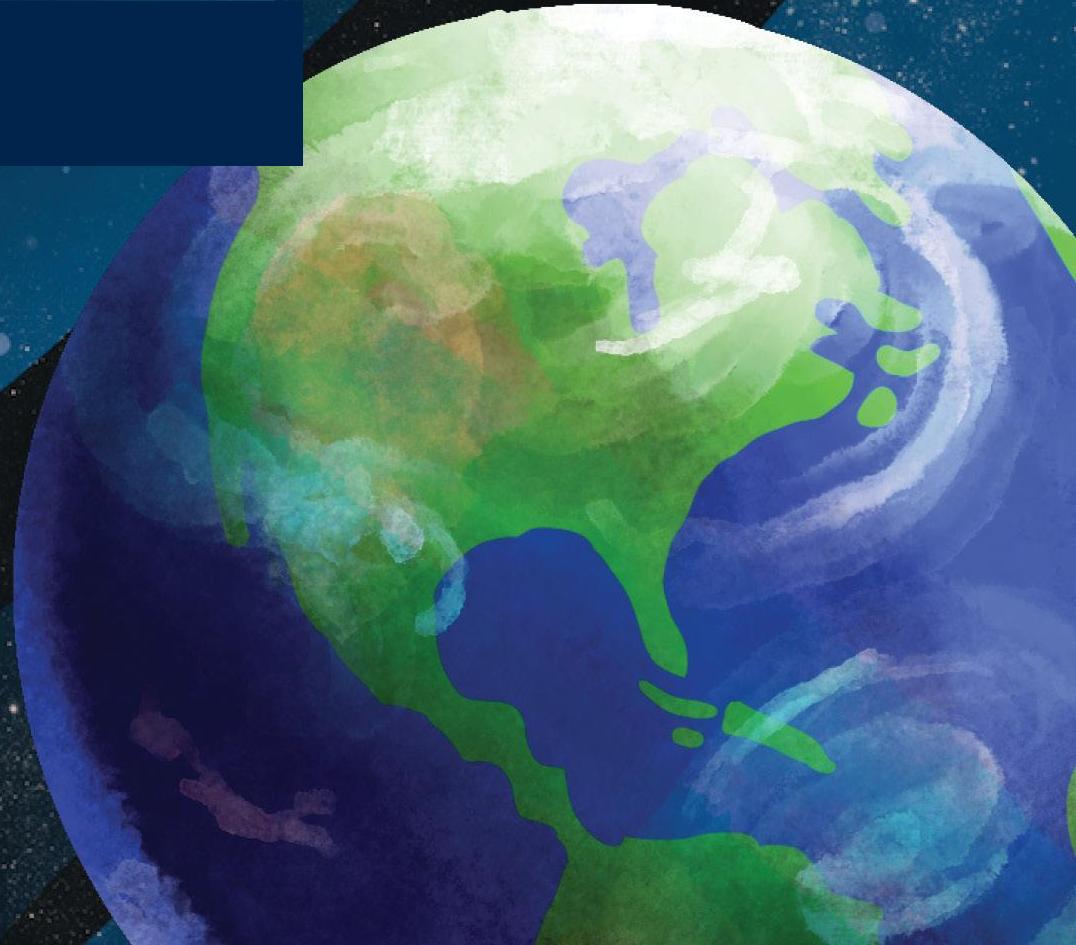


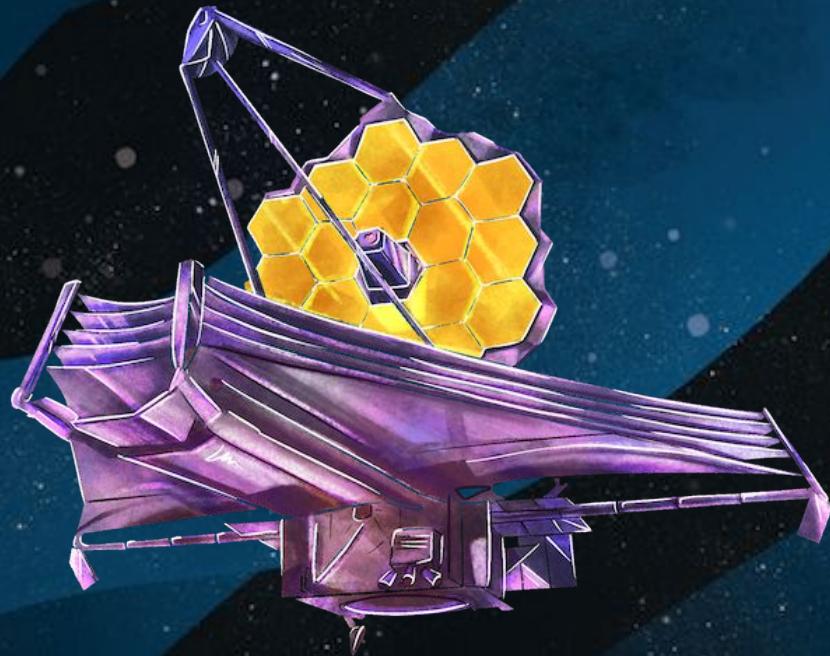
Housekeeping

Photo release - forms
collected at end of
presentation

Take your own photos!

Use hashtag #STEMinLib

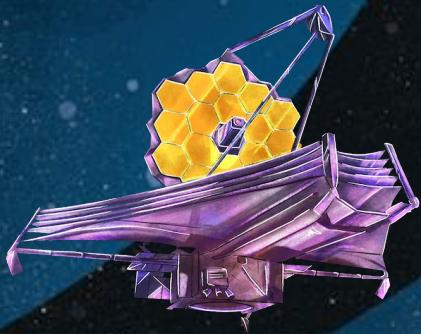




James Webb Space Telescope: The 5 Ws



Who?

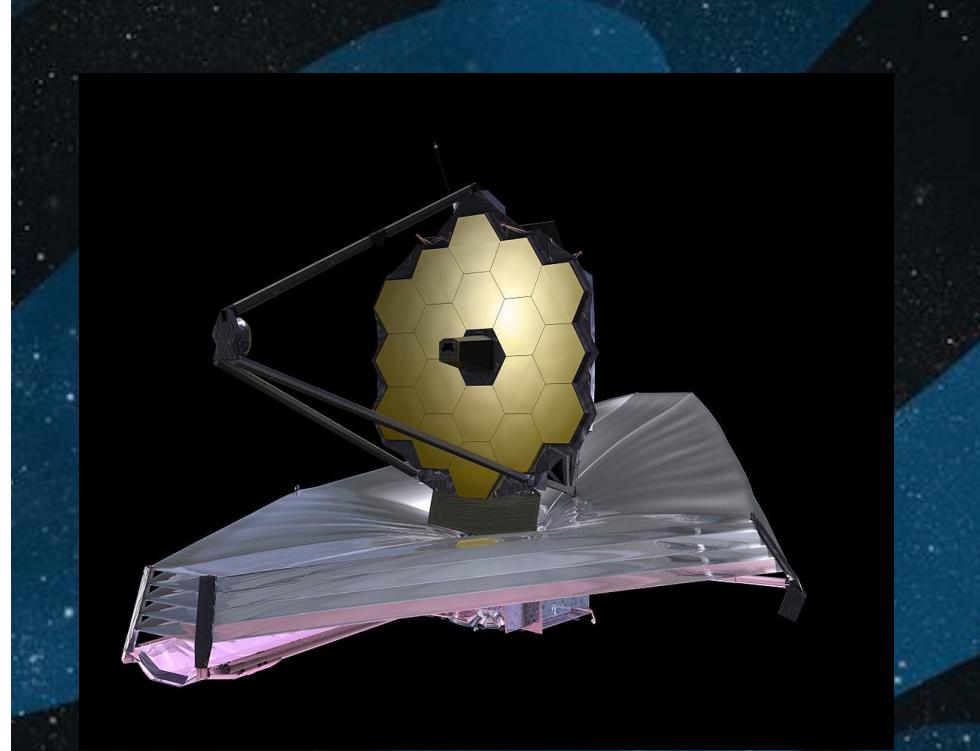


James E. Webb (photo in public domain)

Oversaw and developed NASA
during Apollo program of the 1960s

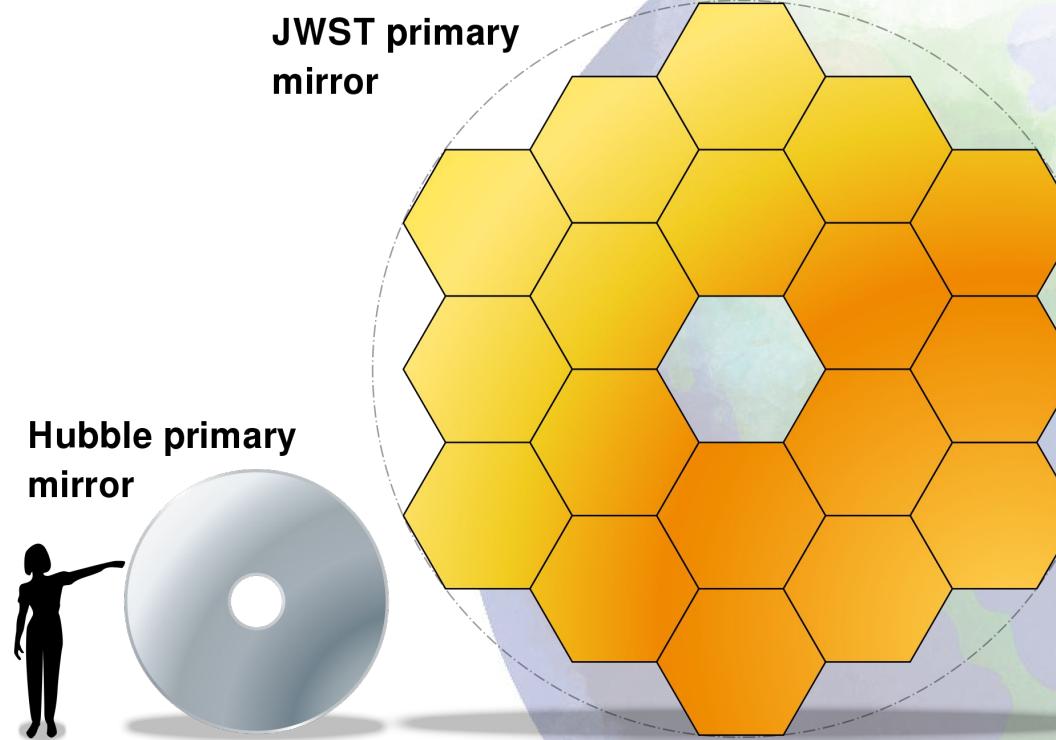
What?

- 18 large hexagonal mirrors
- Infrared sensors (more later)
- Intense sun shielding
 - 5 very thin layers
 - Each layer as large as a tennis court!



[This Photo](#) by NASA is in the public domain

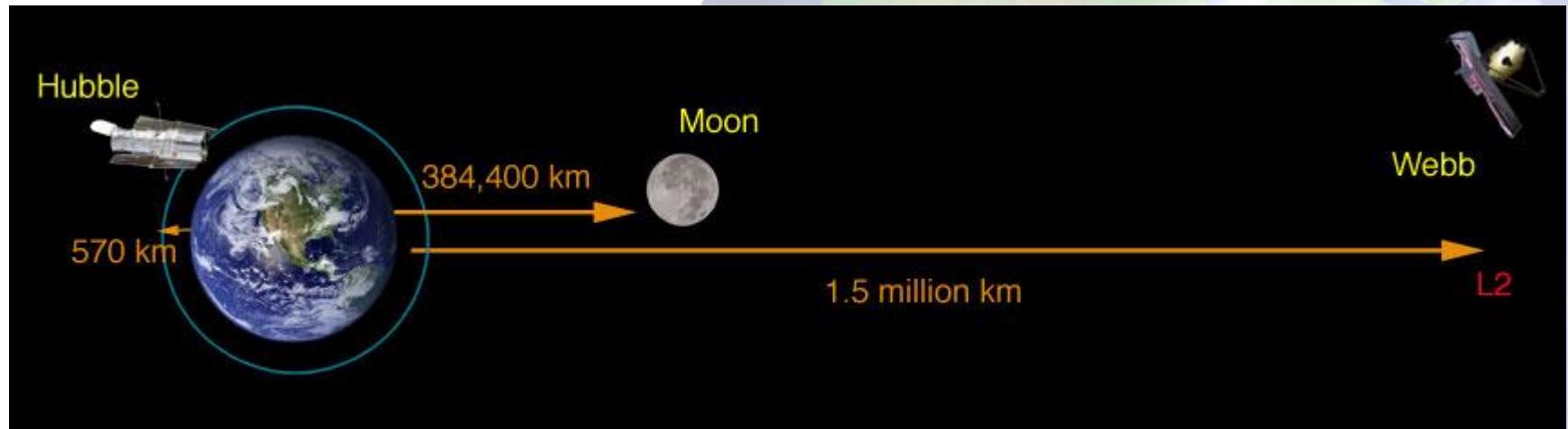
What?: Mirror Comparison



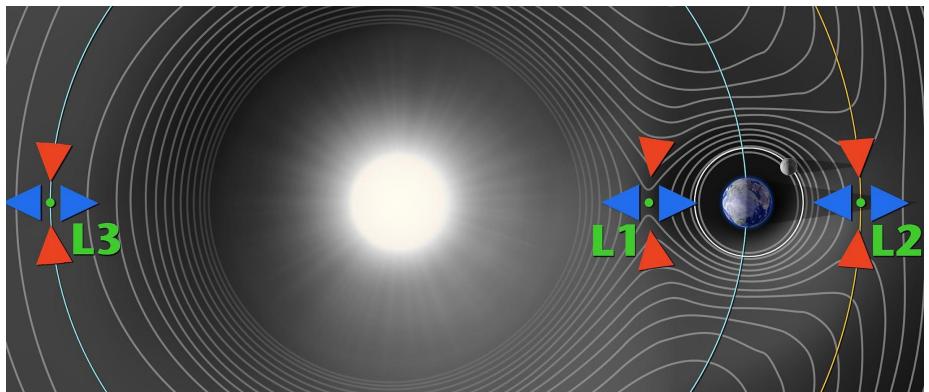
Where?



Where?



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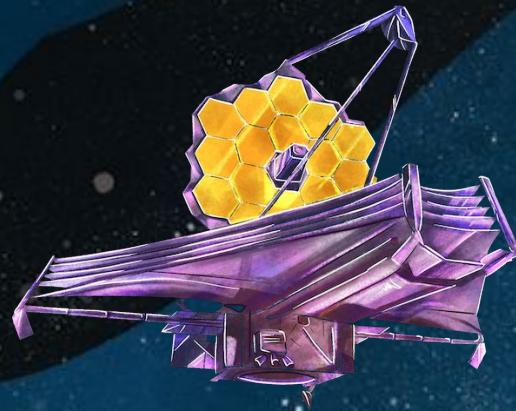
[This Photo](#) by NASA is in the public domain. It has been cropped to show only the portions relative to this presentation

About L2

Any two bodies that orbit each other have 5 “Lagrange points”

Points where gravity “cancels out”

Easy for JWST to stay put there

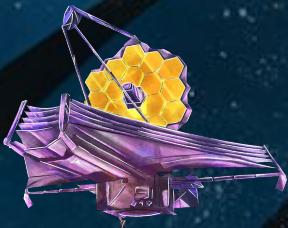


When?

Year	Events
1996	Next Generation Space Telescope project started (8 m)
2002	Named James Webb Space Telescope, Chg to 6 m
2003	TRW contract awarded to build
2004	NEXUS cancelled
2007	ESA/NASA MOU
2010	MCDR passed
2011	Proposed cancel
2016	Final assembly completed
2021	Launch



Why?

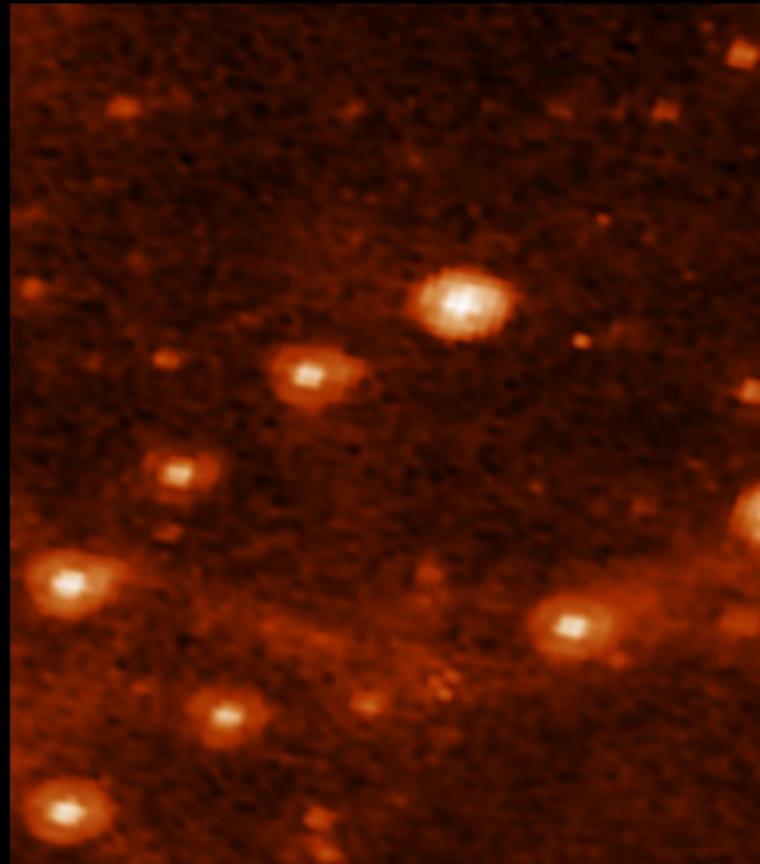


- Why a new telescope?
- Why is it at L2?
- Why do it at all?

Why?

A picture is worth a thousand words.





SPITZER IRAC 8.0μ



WEBB MIRI 7.7μ

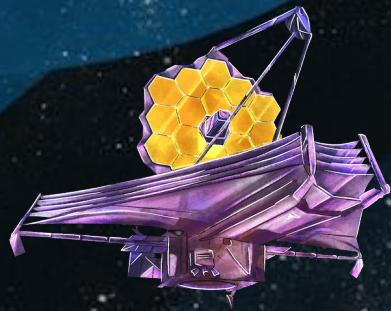


Questions?



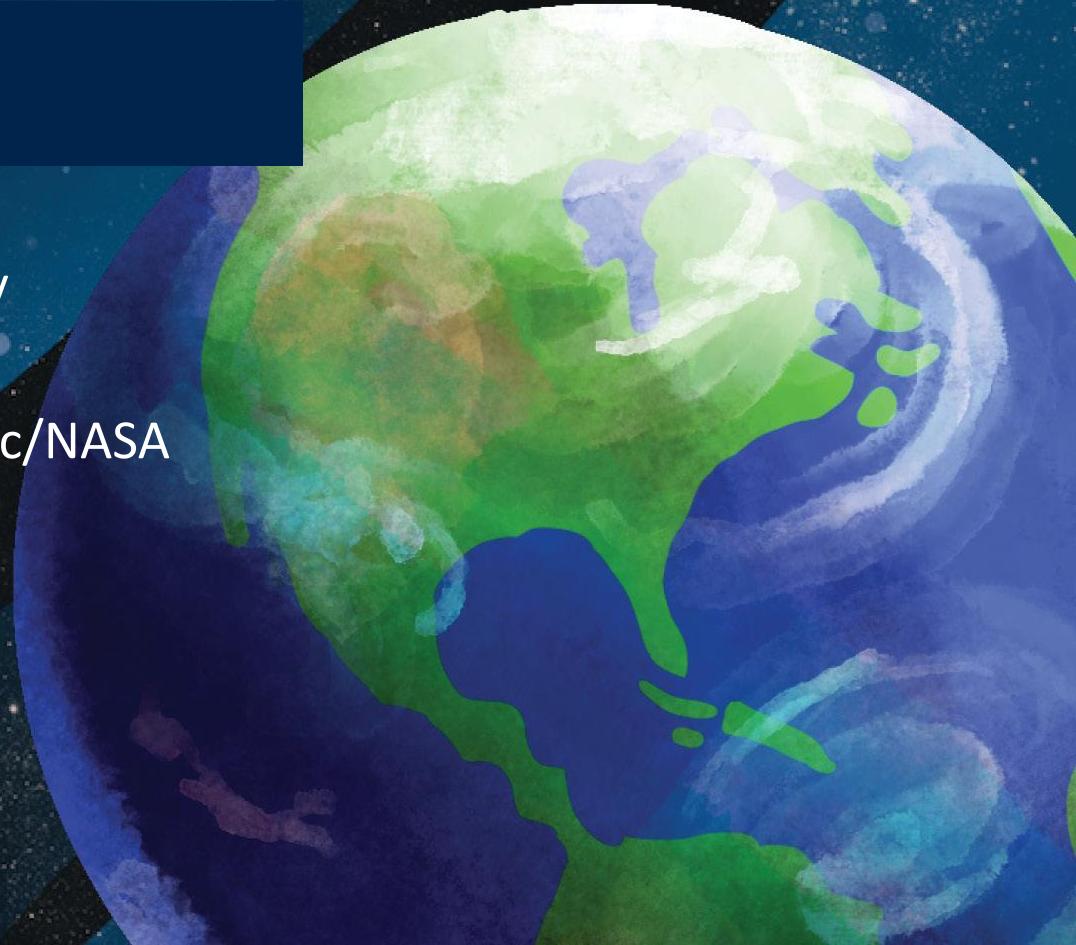
Activity time!

Questions?



More information!

- NASA
<https://www.jwst.nasa.gov/>
- YouTube
<https://www.youtube.com/c/NASA>



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Activity time: Life Cycle of a Massive Star

- What does “life cycle” mean?
 - What are some life cycles you know of?
-
- How do stars form?
 - Do stars die?

Another activity!

[Python demonstration of bookmark activity]