



RP231013 / DV200_S1T1Project

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Public

https://github.com/RP231013/DV200_S1T1Project

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RP231013 last f... e704130 · 1 minute ago

23 Commits



APIResearch

add API Research Doc

yesterday



GithubPDF

last few edits

1 minute ago



mockups

update README

1 hour ago



node_modules

bug fixes

2 months ago



rocketreads

last few edits

1 minute ago



wireframes

add wireframes

2 months ago



.DS_Store

last few edits

1 minute ago



.gitattributes

Initial commit

2 months ago



README.md

last few edits

1 minute ago

First project of second year at Open Window DV200. Using React and Charts.js to make a SPA that visualises data from the SpaceX API.



Readme



Activity



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Rocket Readouts - SpaceX API



Welcome to Rocket Readouts - a React SPA that uses SpaceX API and Charts.js for data visualisation.

[→ Watch the demo video here ←](#)

About The Project

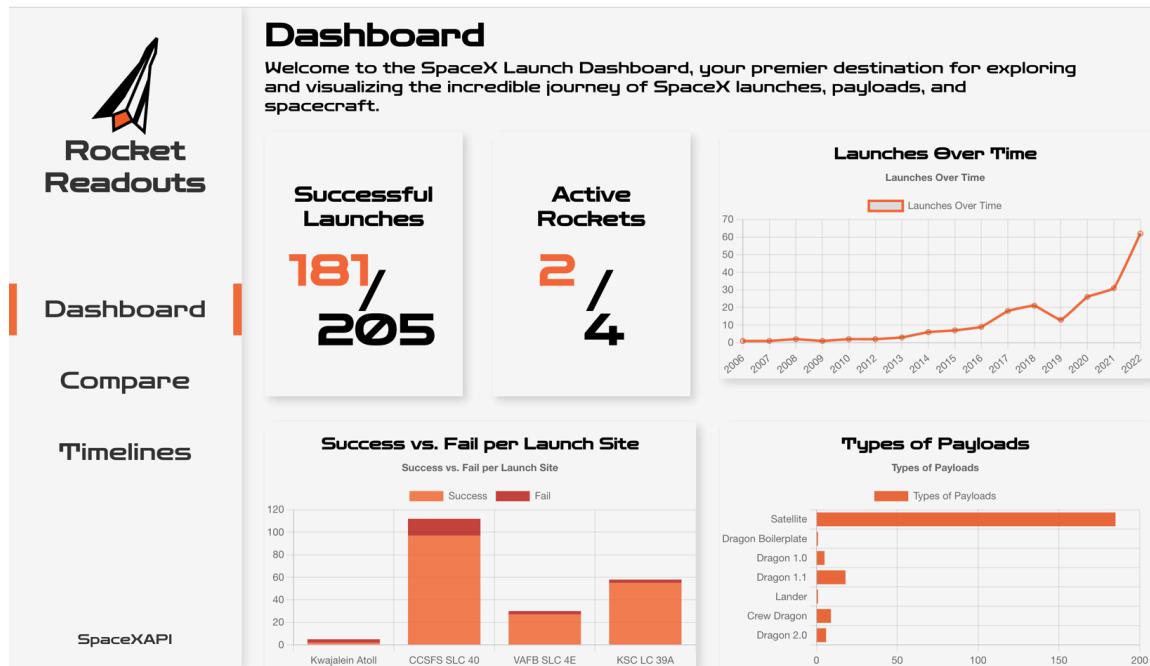
Rocket Readouts is my first project of second year at Open Window DV200.

Languages

- JavaScript 85.3%
- CSS 10.7%
- HTML 4.0%

Using React and Charts.js to make a SPA that visualises data from the SpaceX API. It has: a Dashboard (providing a summary of the data gained); a Compare page (that allows you to compare two objects - Rockets and Launchpads); and, lastly, a Timelines page visualising a number of data points over time.

Dashboard



Compare - Rockets





SPECIFIC OBJECTS YOU WANT TO COMPARE.

Rocket

Falcon 9

Falcon Heavy

Dashboard

Compare

Timelines

SpaceX API



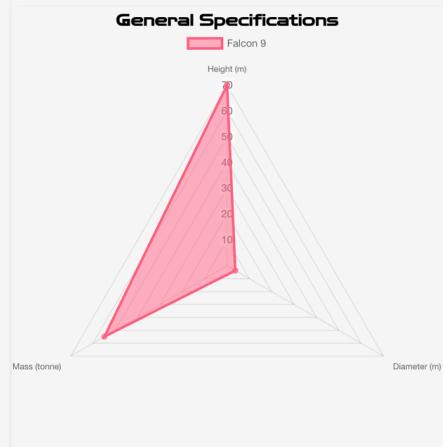
Falcon 9

Falcon 9 is a two-stage rocket designed and manufactured by SpaceX for the reliable and safe transport of satellites and the Dragon spacecraft into orbit.

General Specifications

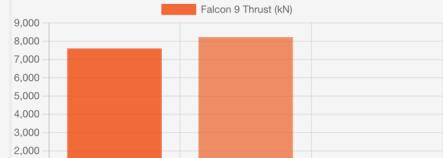
Falcon 9

Height (m)



Thrust (kN)

Falcon 9 Thrust (kN)



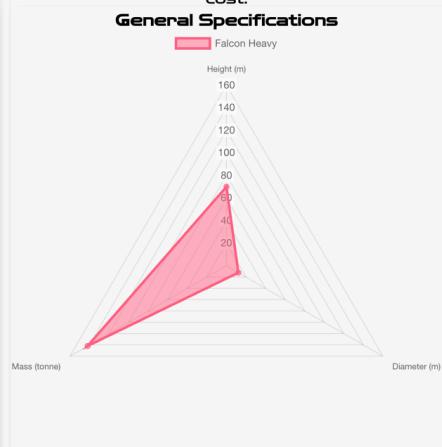
Falcon Heavy

With the ability to lift into orbit over 54 metric tons (119,000 lb)—a mass equivalent to a 737 jetliner loaded with passengers, crew, luggage and fuel—Falcon Heavy can lift more than twice the payload of the next closest operational vehicle, the Delta IV Heavy, at one-third the cost.

General Specifications

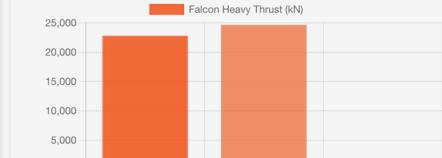
Falcon Heavy

Height (m)



Thrust (kN)

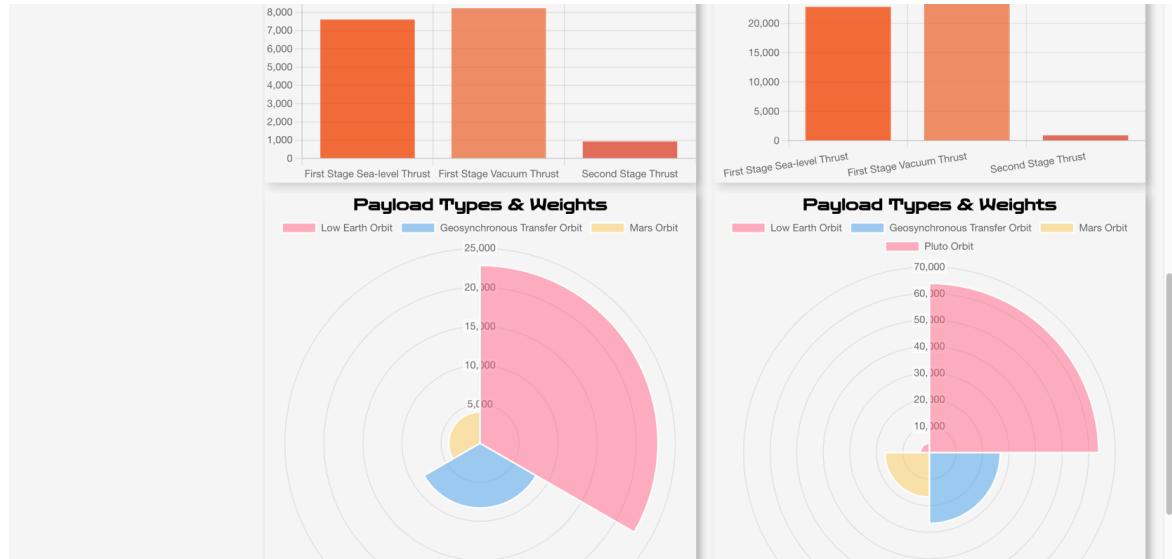
Falcon Heavy Thrust (kN)



Thrust (kN)

Falcon 9 Thrust (kN)





Compare - Launchpads

Compare

Welcome to the Compare page. Firstly select what you'd like to compare then the specific objects you want to compare.

Launchpad ▾ KSC LC 39A ▾ Kwajalein Atoll ▾

Rocket Readouts

Dashboard

Compare

Timelines

SpaceX API



KSC LC 39A

NASA's historic pad that launched most of the Saturn V and Space Shuttle missions, including Apollo 11. SpaceX initially leased solely for Falcon Heavy and Crew Dragon launches, but the company has also used it for others as well following the damage to SLC-40 in the AMOS-6 explosion. After completing the necessary modifications, the first launch SpaceX performed on the pad was CRS-10 in February 2017. After SLC-40 was back online, 39A was upgraded to support Falcon Heavy and complete the removal of the shuttle-era



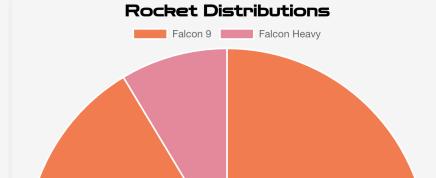
Kwajalein Atoll

SpaceX's original pad, where all of the Falcon 1 flights occurred (from 2006 to 2009). It would have also been the launch site of the Falcon 1e and the Falcon 9, but it was abandoned as SpaceX ended the Falcon 1 program and decided against upgrading it to support Falcon 9, likely due to its remote location and ensuing logistics complexities.

Location: Marshall Islands

commercial crew missions. 39A also occasionally launches other Falcon 9 missions between Falcon Heavy and Crew Dragon launches, depending on pad scheduling. The pad may also potentially be upgraded in the future for use with the BFR.

Location: Florida



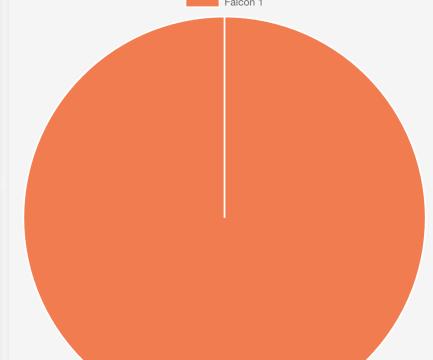
Launch Outcomes

Launch Outcomes



Rocket Distributions

Falcon 1



Timelines



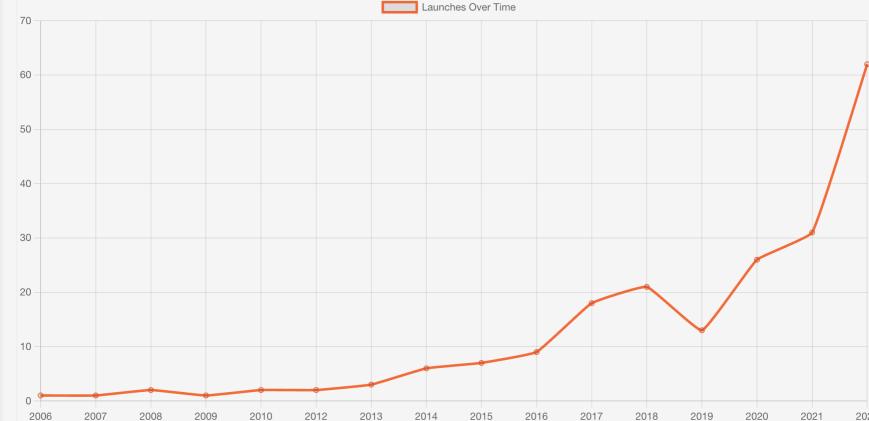
Timelines

Welcome to the Timelines Page. Simply select what you'd like to have displayed



using the dropdown below.

Launches Over Time



Dashboard

Compare

Timelines

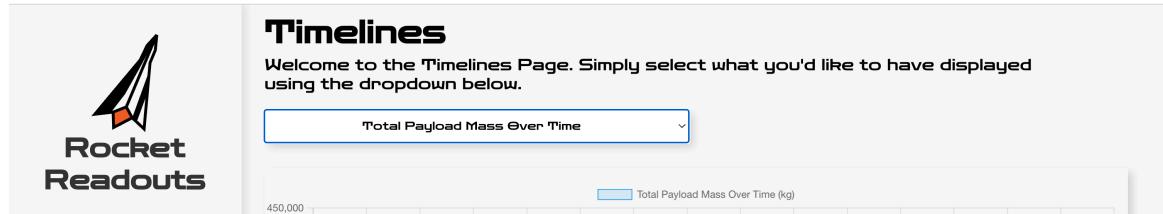
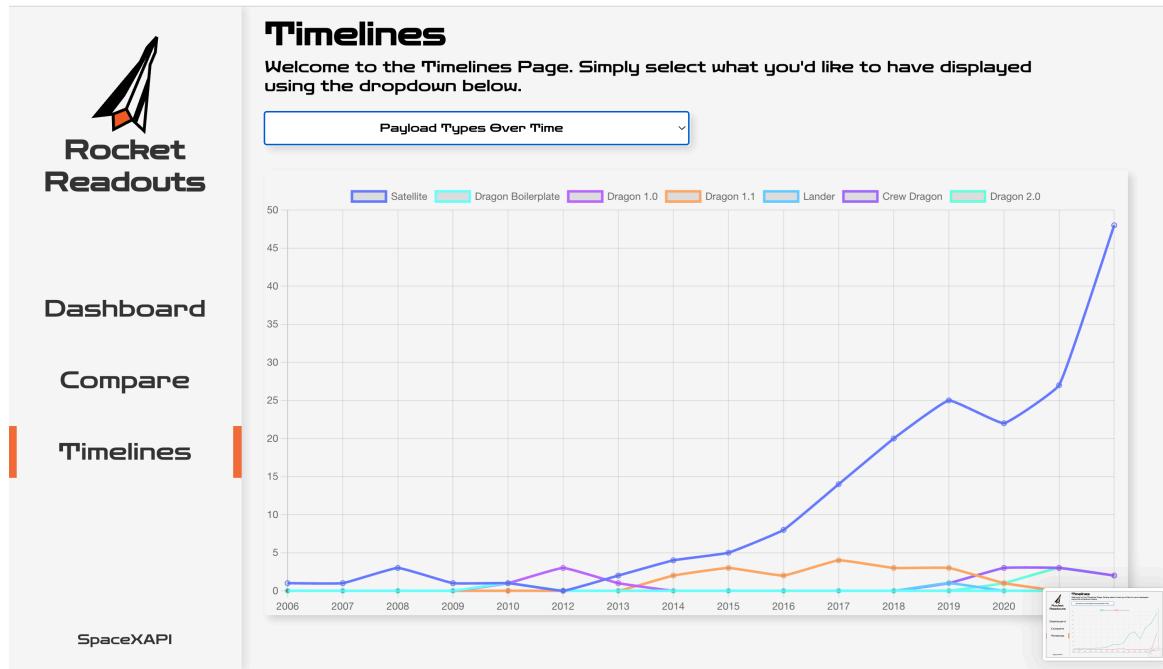
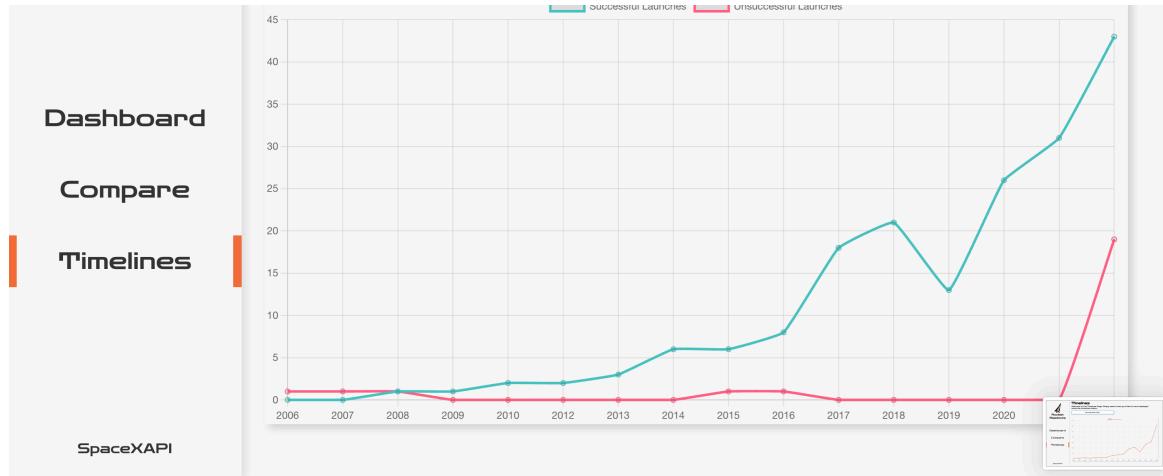
SpaceX API

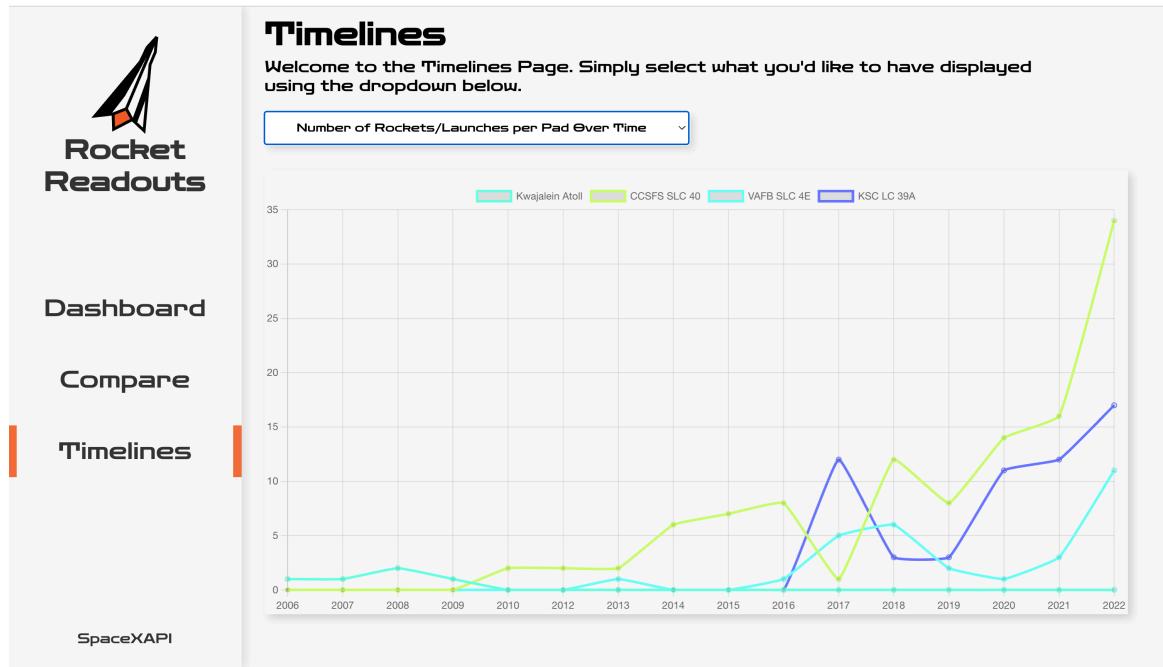
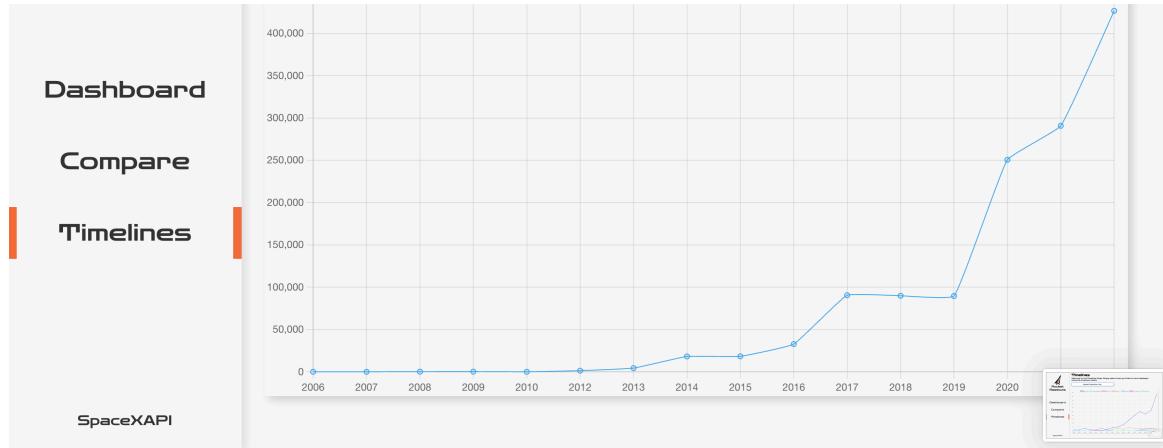


Timelines

Welcome to the Timelines Page. Simply select what you'd like to have displayed using the dropdown below.

Success vs. Unsuccessful Launches Over Time





Built With

- [JavaScript](#)
- [React](#)

- [React-chartsjs-2](#)
- [SpaceX API](#)

Contributing

As this is merely a second-year project, any contributions/improvements would be highly appreciated and be helpful to my coding journey.

Authors

[Rouxan Potgieter](#)



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-o- Commits on Apr 8, 2024

last few edits

RP231013 committed 3 minutes ago

...

update README

 RP231013 committed 1 hour ago

...

add README

 RP231013 committed 1 hour ago

...

add Timelines Page

 RP231013 committed 2 hours ago

...

add dropdown to timelines

 RP231013 committed 3 hours ago

...

add launchPad comparison

 RP231013 committed 3 hours ago

...

change compare to use external components

 RP231013 committed 6 hours ago

...

add Compare for rockets

 RP231013 committed 7 hours ago

...

add Compare page & Dropdowns

 RP231013 committed 8 hours ago

...

-o- Commits on Apr 7, 2024

Update Dashboard.js

 RP231013 committed yesterday

...

add API-fetched data

...

 RP231013 committed yesterday

modify statBlock & chartBlock 

 RP231013 committed yesterday

...

add API Research Doc

 RP231013 committed yesterday

...

-o- Commits on Feb 29, 2024

add routing 

 RP231013 committed 2 months ago

...

bug fixes

 RP231013 committed 2 months ago

...

Revert "chart test" 

 RP231013 committed 2 months ago

...

Revert "chart test continued" 

 RP231013 committed 2 months ago

...

chart test continued

 RP231013 committed 2 months ago

...

chart test

 RP231013 committed 2 months ago

...

add dashboard setup

 RP231013 committed 2 months ago

...

-o- Commits on Feb 28, 2024

project setup

 RP231013 committed 2 months ago

...

-o- Commits on Feb 22, 2024

add wireframes

 RP231013 committed 2 months ago

...

-o- Commits on Feb 15, 2024

Initial commit

 RP231013 committed 2 months ago

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