



RP231013 / DV200_S1T1Project

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RP231013 updated 516c97a · 3 minutes ago

[22 Commits](#)

APIResearch	add API Research Doc	yesterday
mockups	update README	3 minutes ago
node_modules	bug fixes	2 months ago
rocketreads	update README	3 minutes ago
wireframes	add wireframes	2 months ago
.DS_Store	update README	3 minutes ago
.gitattributes	Initial commit	2 months ago
README.md	update README	3 minutes 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.

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Releases

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Packages



Rocket Readouts - SpaceX API

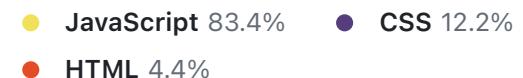


Welcome to Rocket Readouts - a React SPA that uses SpaceX API and Charts.js for data visualisation.

[→ Watch the demo video here ←](#)

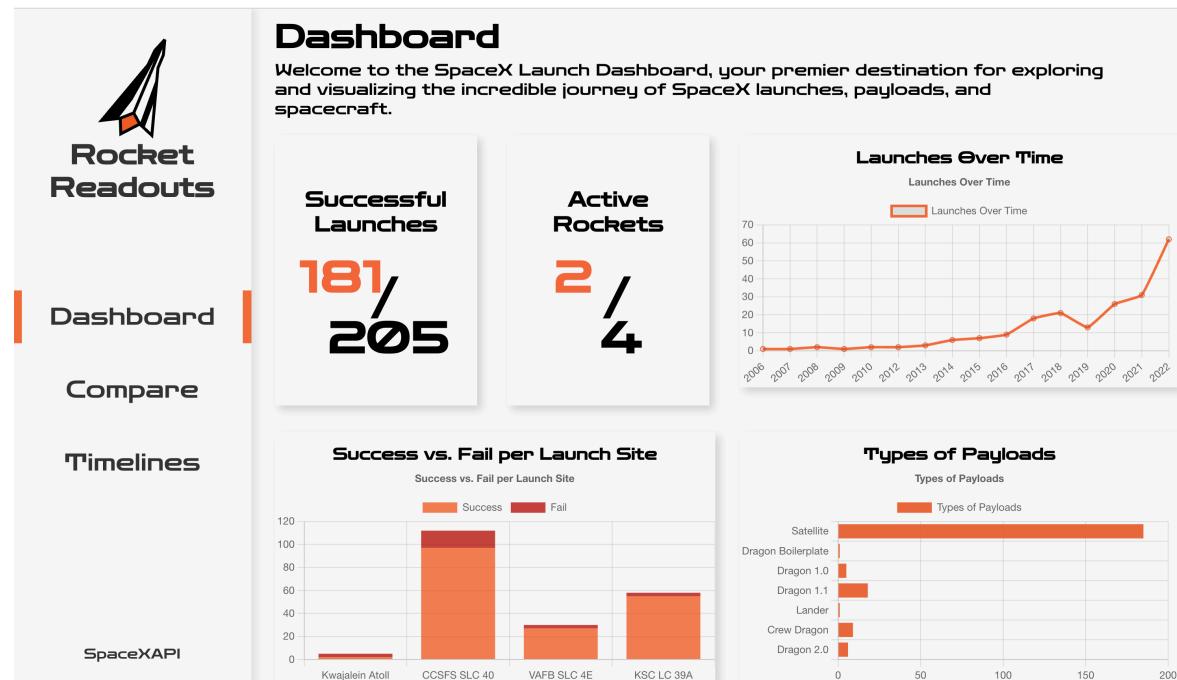
About The Project

Languages



Rocket Readouts is my 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. 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



Compare

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

Rocket

Falcon 9

Falcon Heavy

Dashboard

Compare

Timelines

SpaceX API



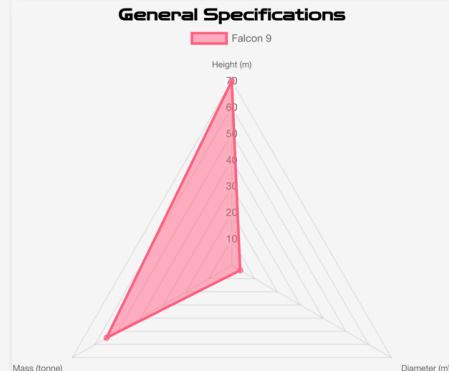
Falcon 9

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

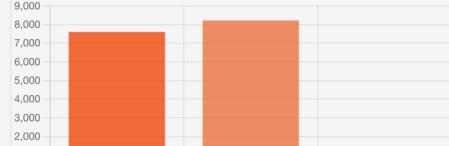
Falcon 9

Height (m)



Thrust (kN)

Falcon 9 Thrust (kN)



Falcon Heavy

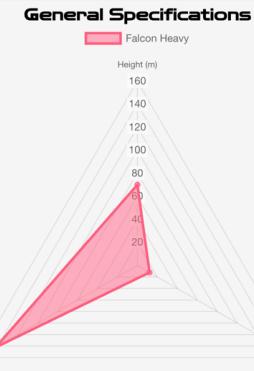
With the ability to lift into orbit over 54 metric tons (119,000 lb)—a mass equivalent to a 737 jetliner loaded with passengers, crew, luggage and fuel—Falcon Heavy can lift more than twice the payload of the next closest operational vehicle, the Delta IV Heavy, at one-third the cost.

General Specifications

Falcon Heavy

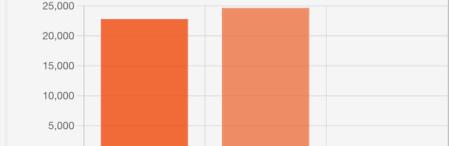
Height (m)

COST



Thrust (kN)

Falcon Heavy 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



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

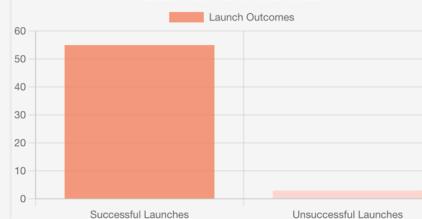
commercial crew missions. 39A also occasionally launches other Falcon 9 missions between Falcon Heavy and Crew Dragon launches, depending on pad scheduling. The pad may also potentially be upgraded in the future for use with the BFR.

Location: Florida

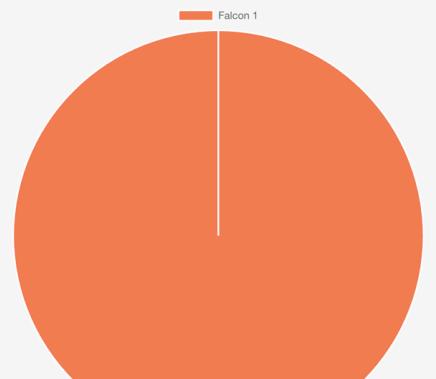
Launch Outcomes



Launch Outcomes



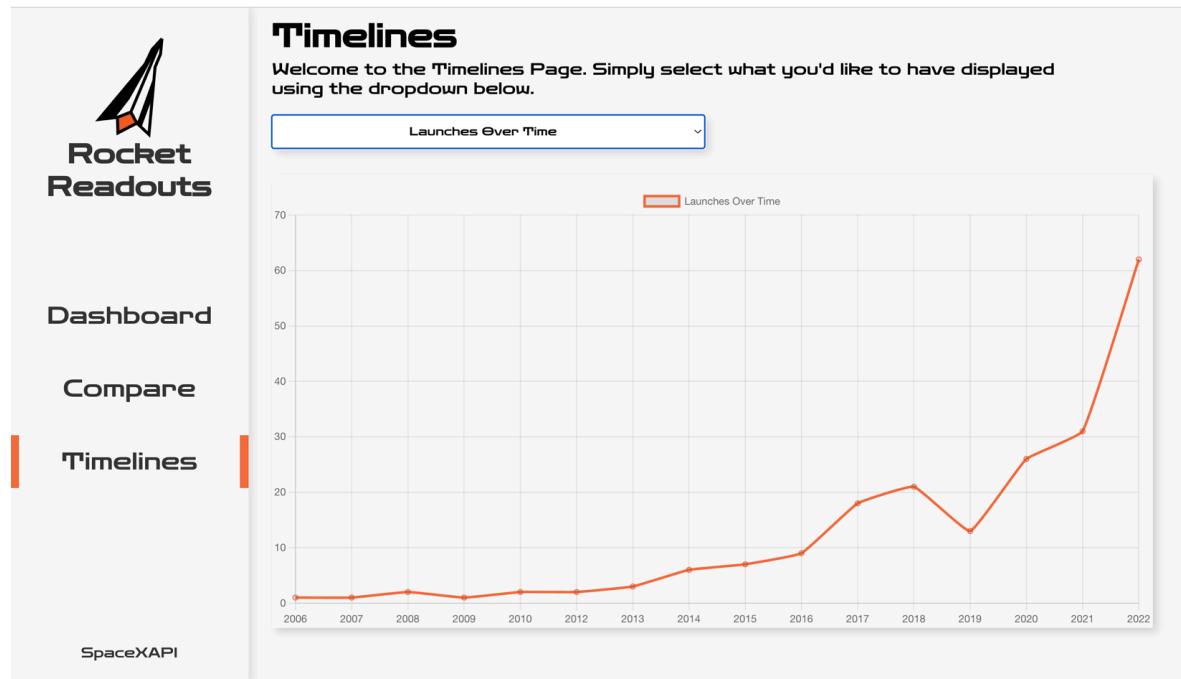
Rocket Distributions



Rocket Distributions

Falcon 9 Falcon Heavy

Timelines

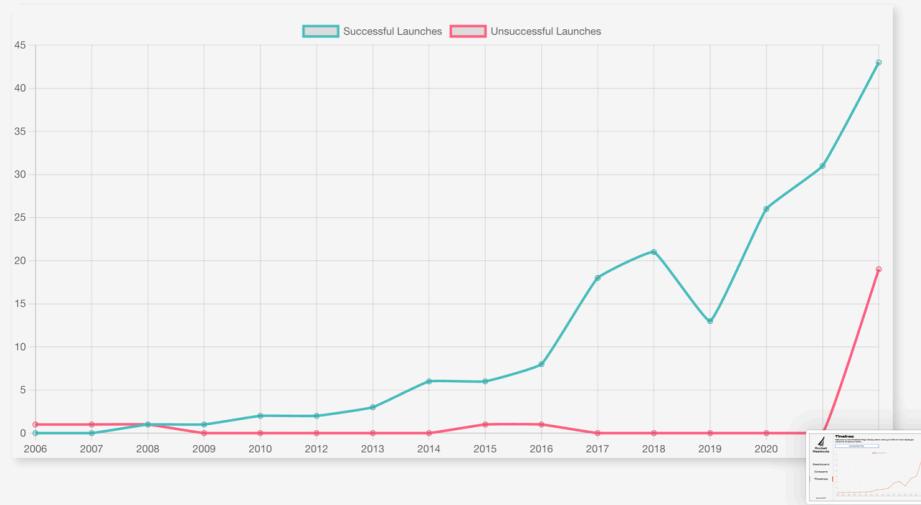




Timelines

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

Success vs. Unsuccessful Launches Over Time



Dashboard

Compare

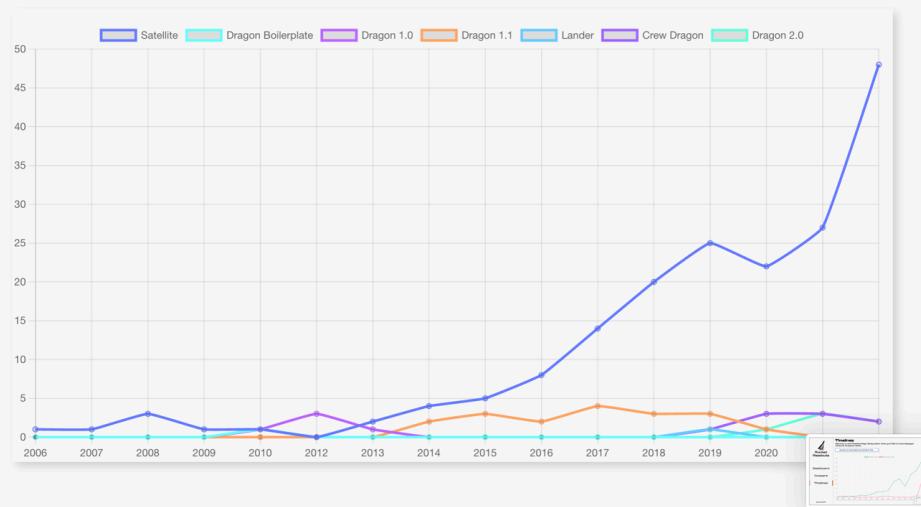
Timelines

SpaceXAPI

Timelines

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

Payload Types Over Time



Dashboard

Compare

Timelines

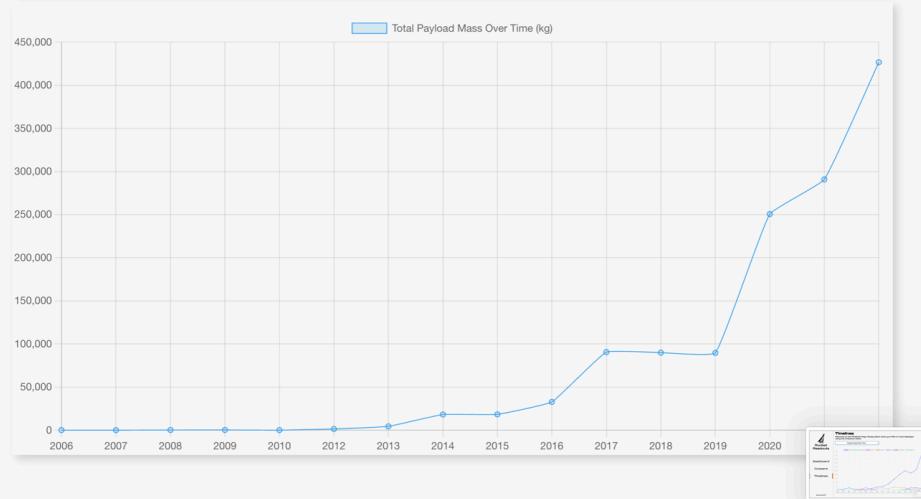
SpaceXAPI



Timelines

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

Total Payload Mass Over Time



Dashboard

Compare

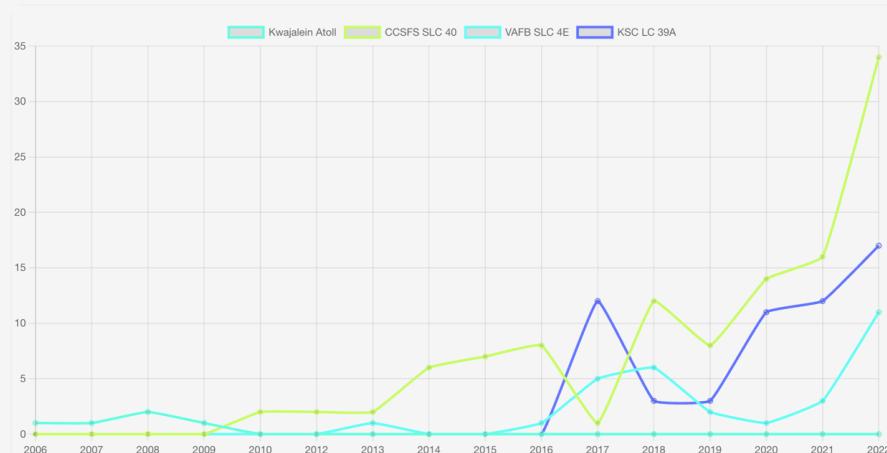
Timelines

SpaceXAPI

Timelines

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

Number of Rockets/Launches per Pad Over Time



Dashboard

Compare

Timelines

SpaceXAPI

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](#)