



Explore the NASA Open Data Catalogs



Matt Brooks
Urban Engine



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HUNTSVILLE

APPS

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HUNTSVILLE'S BIGGEST
HACKATHON
OF THE YEAR

NASA
SPACE APPS
CHALLENGE

SPACEAPPSHSV.ORG OCTOBER 19 - 21

Welcome!



Open NASA

The starting point for discovering NASA data, code, and APIs

URL: <https://open.nasa.gov/open-data/>

Sites of Note:

- data.nasa.gov - NASA Open Data Portal
- code.nasa.gov - NASA Code Available in open source!
- api.nasa.gov - NASA APIs

NASA Open Data Portal

- A continually growing catalog of publicly available NASA datasets, APIs, visualizations, and more!
- URL: <https://data.nasa.gov/>

NASA Open Data Portal

- A catalog of NASA datasets
- 44546 datasets available
- Most are available via API

USE THE API


LUKE.

DIYLOL.COM

NASA Open Data Portal

- Most APIs are provided in The Socrata Open Data API (SODA) format.
- Getting Started Page (outdated):
<https://data.nasa.gov/stories/s/gk8h-th3y>
- Obtain API Token
<https://dev.socrata.com/docs/app-tokens.html>

NASA Open Data Portal

 NASA's Open Data Portal

click here

Menu

Meteorite Landings

Space Science

View Data

Visualize

Export

API

...

This comprehensive data set from The Meteoritical Society contains information collected by Javier de la Torre and we've also provided an XLS file that consists of place type_of_meteorite...

[More](#)

Access this Dataset via SODA API

The Socrata Open Data API (SODA) provides programmatic access to this dataset including the ability to filter, query, and aggregate data.

API Endpoint

https://data.nasa.gov/resource/y77d-th95.jsor

JSON

Copy

About this Dataset

Updated

June 27, 2018

Data Last Updated

July 20, 2015

Metadata Last Updated

June 27, 2018

Common Core

| | |
|--------------|---------|
| Bureau Code | 026:00 |
| Program Code | 026:009 |

NASA Open Data Portal DEMO

<https://data.nasa.gov>

NASA Code

- OMG OMG OMG!
- Browsable Catalog of NASA Open Source Software

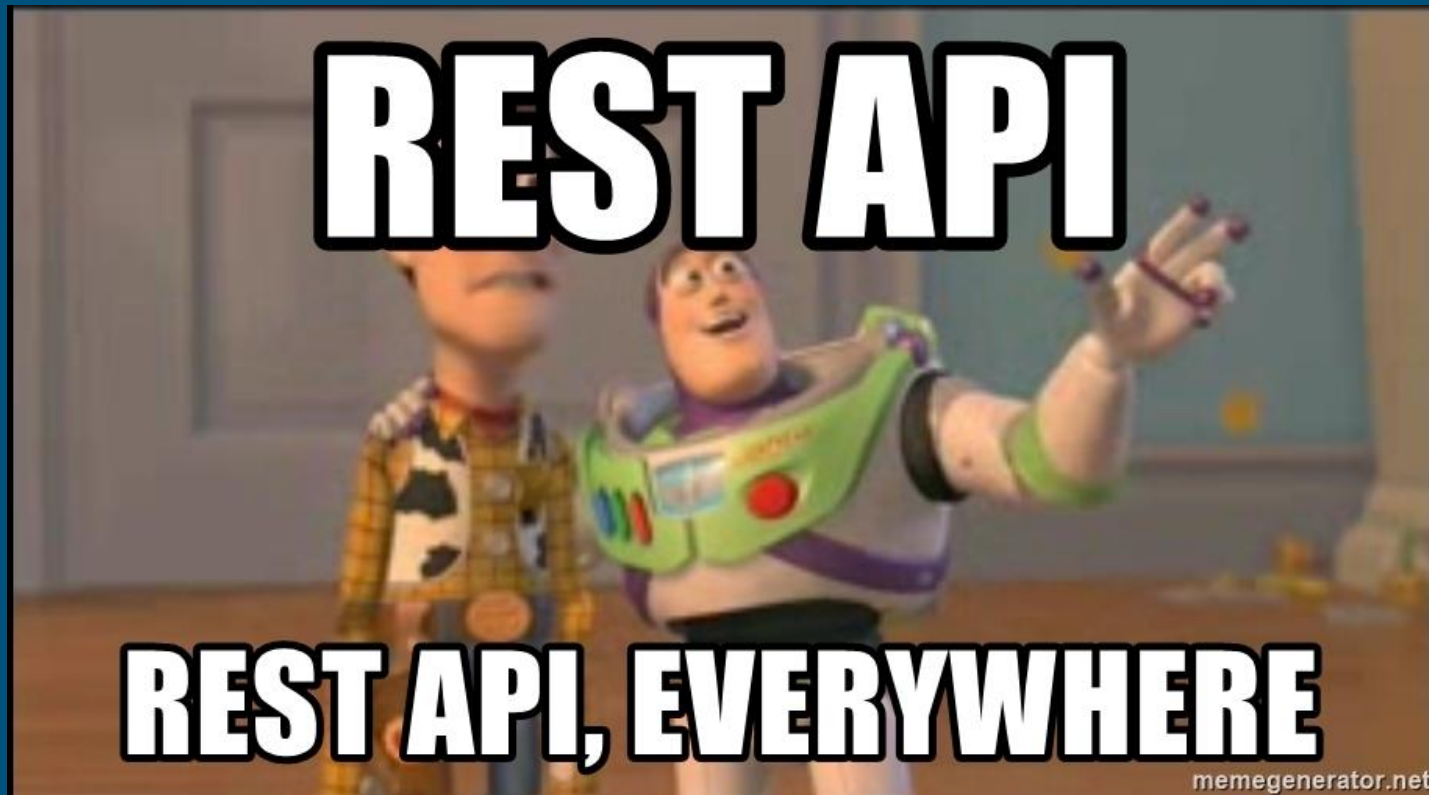
NASA CODE DEMO

<https://code.nasa.gov>

NASA Code

- Code for finding planets!
<https://code.nasa.gov/?tag=Kepler>
- Original Apollo 11 guidance computer (AGC) source code for Command Module (Comanche055) and Lunar Module (Luminary099) <https://github.com/chrislgarry/Apollo-11>
- Code written in Python
<https://code.nasa.gov/?q=python>

NASA APIs



NASA APIs

- A small collection of useful RESTful APIs
- APIs seem to be more “Real Time” in nature
- Need to register for an API Key

<https://api.nasa.gov/index.html#apply-for-an-api-key>

NASA APIs DEMO

<https://api.nasa.gov>

A meme image with a solar system background. On the left is a large, bright orange and yellow sun. Several planets and their orbits are visible against a dark space background. The text is overlaid in white, bold, sans-serif font with a black outline. The text reads: "HOW DOES NASA ORGANIZE THEIR COMPANY PARTIES?" followed by "THEY PLANET!!" on the next line.

**HOW DOES NASA ORGANIZE
THEIR COMPANY PARTIES?
THEY PLANET!!**

Thanks!

