An official website of the United States government
Here's how you know

{ APIs }

...

{ NASA APIs }

Welcome to the NASA API portal. The objective of this site is to make NASA data, including imagery, eminently accessible to application developers. The api.nasa.gov catalog is growing.

Get Started

Browse APIs

Generate API Key

Your API key for **rgonzalezj@gmail.com** is:

K2rMhlaiuTIP0drR6ZkZ0HHCp6O7QgGwIVvCB7bf

You can start using this key to make web service requests. Simply pass your key in the URL when making a web request. Here's an example:

https://api.nasa.gov/planetary/apod?**api_key=K2rMhlaiuTIP0drR6ZkZ0**

For additional support, please contact us. When contacting us, please tell us what API you're accessing and provide the following account details so we can quickly find you:

Account Email: rgonzalezj@gmail.com
Account ID: 66fd3156-40fd-4cd6-85b0-1db188269240

Authentication

You do not need to authenticate in order to explore the NASA data. However, if you will be intensively using the APIs to, say, support a mobile application, then you should sign up for a NASA developer key.

Web Service Rate Limits

Limits are placed on the number of API requests you may make using your API key. Rate limits may vary by service, but the defaults are:

- Hourly Limit: 1,000 requests per hour

For each API key, these limits are applied across all api.nasa.gov API requests. Exceeding these limits will lead to your API key being temporarily blocked from making further requests. The block will automatically be lifted by waiting an hour. If you need higher rate limits, contact us.

DEMO_KEY Rate Limits

In documentation examples, the special DEMO_KEY api key is used. This API key can be used for initially exploring APIs prior to signing up, but it has much lower rate limits, so you're encouraged to signup for your own API key if you plan to use the API (signup is quick and easy). The rate limits for the DEMO_KEY are:

- Hourly Limit: 30 requests per IP address per hour
- Daily Limit: 50 requests per IP address per day

How Do I See My Current Usage?

Your can check your current rate limit and usage details by inspecting the `X-RateLimit-Limit` and `X-RateLimit-Remaining` HTTP headers that are returned on every API response. For example, if an API has the default hourly limit of 1,000 request, after making 2 requests, you will receive this HTTP header in the response of the second request:

```
X-RateLimit-Remaining: 998
```

The hourly counters for your API key reset on a rolling basis.

Example: If you made 500 requests at 10:15AM and 500 requests at 10:25AM, your API key would become temporarily blocked. This temporary block of your API key would cease at 11:15AM, at which point you could make 500 requests. At 11:25AM, you could then make another 500 requests.

Anyone can register for an api.nasa.gov key, which can be used to access data across federal agencies.

API Key Recovery

Please contact us for help recovering an old API key ⬡

Browse APIs

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APOD: Astronomy Picture of the Day   **+**

Asteroids NeoWs: Near Earth Object Web Service   **+**

DONKI: Space Weather Database Of Notifications, Knowledge, Information   **+**

Earth: Unlock the significant public investment in earth observation data   **+**

EONET: The Earth Observatory Natural Event Tracker   **+**

EPIC: Earth Polychromatic Imaging Camera   **+**

Exoplanet: Programmatic access to NASA's Exoplanet Archive database   **+**

GeneLab: Programmatic interface for GeneLab's public data repository website   **+**

Insight: Mars Weather Service API   **+**

Mars Rover Photos: Image data gathered by NASA's Curiosity, Opportunity, and Spirit rovers on Mars   **+**

NASA Image and Video Library: API to access the NASA Image and Video Library site at images.nasa.gov   **+**

TechTransfer: Patents, Software, and Tech Transfer Reports   **+**

Satellite Situation Center: System to cast geocentric spacecraft location information into a framework of (empirical) geophysical regions   **+**

SSD/CNEOS: Solar System Dynamics and Center for Near-Earth Object Studies   **+**

Techport: API to make NASA technology project data available in a machine-readable format   **+**

TLE API: Two line element data for earth-orbiting objects at a given point in time   **+**

Vesta/Moon/Mars Trek WMTS: A Web Map Tile Service for the Vesta, Moon, and Mars Trek imagery projects   **+**

code.nasa.gov

data.nasa.gov

api.nasa.gov

open.nasa.gov

Open Innovation Team

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