

FORMAS DE OBTENER DATOS

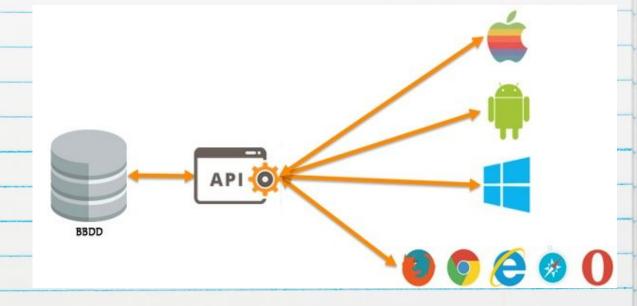
- · CSV <- Datos interno
- BBDD <- Datos internos
- · API <- Datos externos!





FUNCIONAMIENTO DE UN API

- Metodo Post
 - Metodo Get



Http://URL/PUNTO-API&Param1=value1&Param2=value2



FUNCIONAMIENTO DE UN API

- · Abiertos
- · Autenticación
 - · Usuario + Password
 - · Usuario + Token

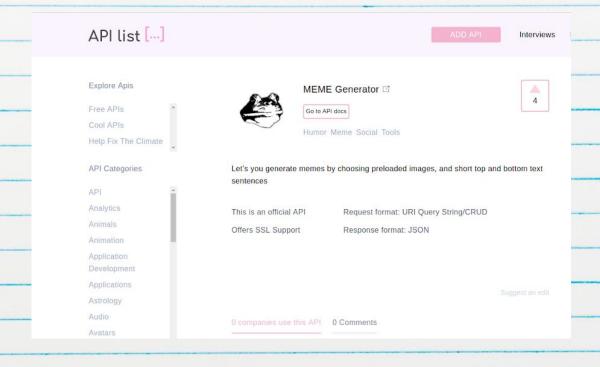
Invocar url con parametros

Status code JSON /CSV/IMAGE



EJEMPLOS DE APIS

https://apilist.fun/





COMO FUNCIONA

```
import requests
a=requests.get("http://api.open-notify.org/iss-pass.json?lat=40.71&lon=-74")
response.status_code
print(a.json())
response = requests.get("http://api.open-notify.org/astros.json")
response.status_code
print(response.json())
```



APIS CON API KEY \longrightarrow NASA

https://api.nasa.gov/ Obtener un API KEY Metemos el API Key como parámetro en la llamada

Imagery

This endpoint retrieves the Landsat 8 image for the supplied location and date. The response will include the date and URL to the image that is closest to the supplied date. The requested resource may not be available for the exact date in the request. You can retrieve a list of available resources through the assets endpoint.

The cloud score is an optional calculation that returns the percentage of the queried image that is covered by clouds. If False is supplied to the cloud score parameter, then no keypair is returned. If True is supplied, then a keypair will always be returned, even if the backend algorithm is not able to calculate a score. Note that this is a rough calculation, mainly used to filter out exceedingly cloudy images.

HTTP Request

GET https://api.nasa.gov/planetary/earth/imagery

Query Parameters

Parameter	Туре	Default	Description
lat	float	n/a	Latitude
lon	float	n/a	Longitude
dim	float	0.025	width and height of image in degrees
date	YYYY-MM- DD	today	date of image; if not supplied, then the most recent image (i.e., closest to today) is returned
cloud_score	bool	False	calculate the percentage of the image covered by clouds
api_key	string	DEMO_KEY	api.nasa.gov key for expanded usage

Example query

https://api.nasa.gov/planetary/earth/imagery?lon=100.75&lat=1.5&date=2014-02-01&cloud score=True&api key=DEMO KEY

Note that the returned object may not match the supplied date exactly. Instead, the image closest to the supplied date is returned.











IntroNump....ipynb



PROCESANDO LAS RESPUESTAS

```
parameters = {
  "lat": 40.71,
  "lon": -74
response = requests.get("http://api.open-notify.org/iss-pass.json", params=parameters)
print(response.json())
{'message': 'success', 'request':
     {'altitude': 100, 'datetime': 1572537372, 'latitude': 40.71, 'longitude': -74.0,
'passes': 5},
     'Response':
            [{'duration': 255, 'risetime': 1572539984},
              {'duration': 504, 'risetime': 1572588456},
             {'duration': 655, 'risetime': 1572594154},
              {'duration': 606, 'risetime': 1572600003},
              {'duration': 559, 'risetime': 1572605889}]}
```



PROCESANDO LAS RESPUESTAS

from pandas.io.json import json_normalize
a = response.json()
df = json_normalize(a, 'response')
print (df)

	duration	risetime
0	487	1572928204
1	654	1572933891
2	610	1572939736
3	560	1572945623
4	611	1572951458



NY TIMES!

https://developer.nytimes.com/apis

Conseguir un API Key

Daros de alta

- Conseguir un dataset con las noticias más vistas en los ultimos 7 dias
- Conseguir un dataset con comentarios de una de las noticias