



Bratislava #8

Working with 3rd party APIs

More APIs to discover

<https://thecatapi.com/>

<https://developers.google.com/calendar/>

What is an API?

Application Programming Interface (**API**)

allows applications to communicate with one another

When people speak of “an **API**”, they sometimes generalize and actually mean “a publicly available web-based **API** that returns data”

Countries API

<https://restcountries.eu>

Let's play with the API



POSTMAN

<https://www.getpostman.com>

<https://restcountries.eu>

Requests library

- pip install requests
- <https://realpython.com/python-requests/>

```
>>> requests.get('https://api.github.com')
```

```
<Response [200]>
```

```
>>> response = requests.get('https://api.github.com')
```

Requests library

- Status codes

```
if response.status_code == 200:  
    print('Success!')  
elif response.status_code == 404:  
    print('Not Found.')
```

- Content

```
>>> response.content  
>>> response.text  
>>> response.json()
```

Requests library

- Request headers and query parameters

```
response = requests.get(  
    'https://api.github.com/search/repositories' ,  
    params={'q': 'requests+language:python' },  
    headers={'Accept': 'application/vnd.github.v3.text-match+json' },  
)
```

- Other methods

```
>>> requests.post('https://httpbin.org/post' , data={'key': 'value'})  
>>> requests.put('https://httpbin.org/put' , data={'key': 'value'})  
>>> requests.delete('https://httpbin.org/delete' )  
>>> requests.head('https://httpbin.org/get' )  
>>> requests.patch('https://httpbin.org/patch' , data={'key': 'value'})  
>>> requests.options('https://httpbin.org/get' )
```


Requests library

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```
>>> response = requests.get('https://api.github.com')
```

Let's play with the API

Now programmatically!

<https://restcountries.eu>

Create a python function

```
def get_country_language(country):  
    ...  
  
    ...  
  
    return language
```

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