Programming and Communications III: Requests Python Library

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Programming and Communications III: Requests Library

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Requests Library

The requests library in Python is a user-friendly HTTP client for making web requests. It simplifies sending HTTP/1.1 requests like GET, POST, PUT, DELETE, etc., and handling responses.

Installation

- pip install requests

Import

- import requests

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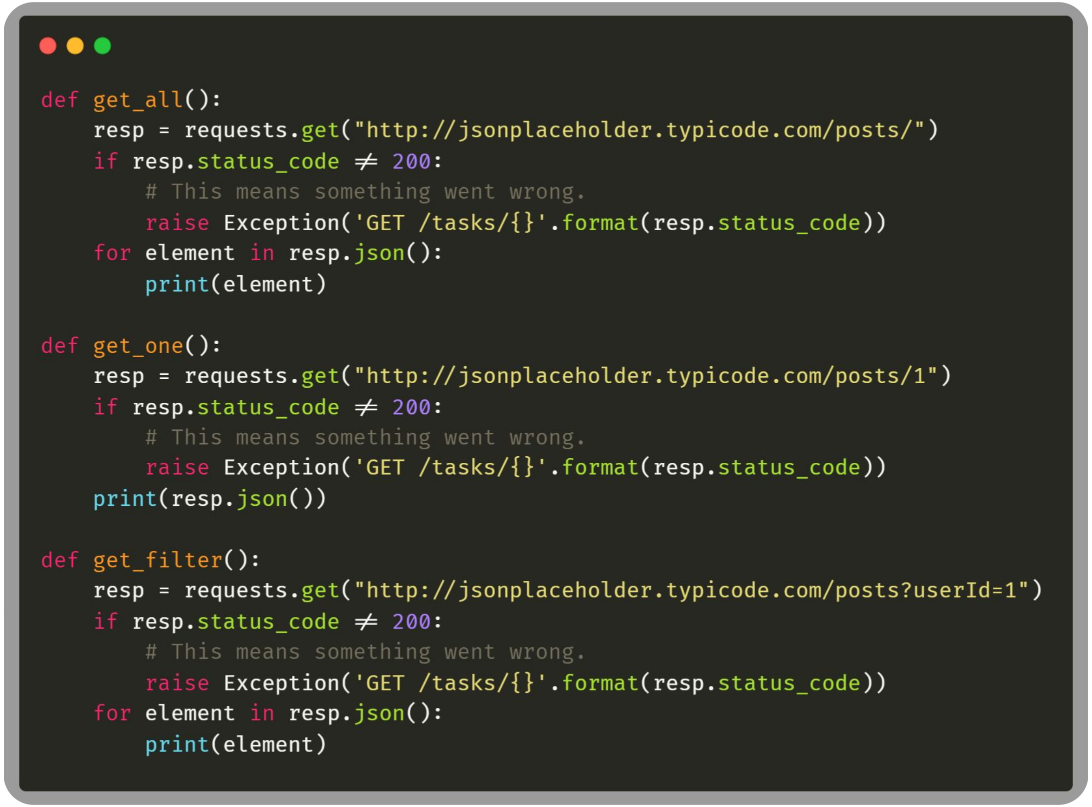
Examples: GET

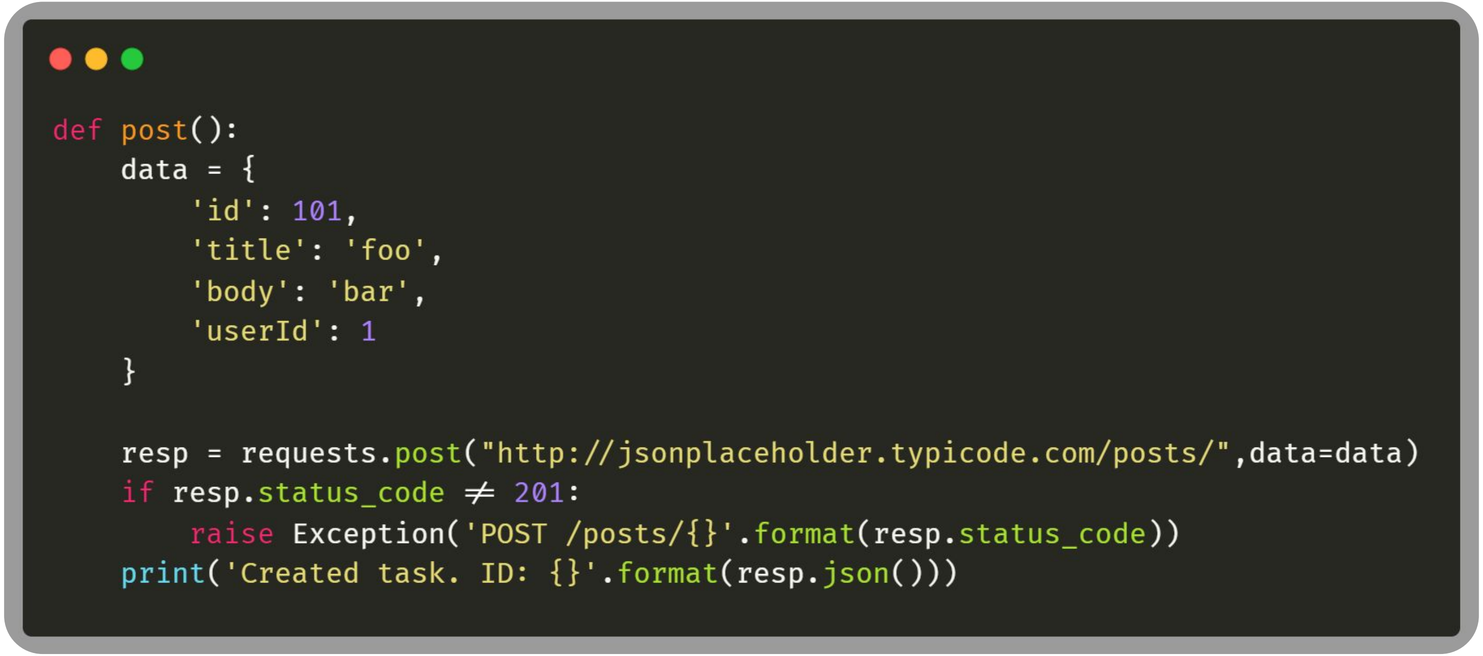


```python
def get_all():
    resp = requests.get("http://jsonplaceholder.typicode.com/posts/")
    if resp.status_code ≠ 200:
        # This means something went wrong.
        raise Exception('GET /tasks/{}'.format(resp.status_code))
    for element in resp.json():
        print(element)

def get_one():
    resp = requests.get("http://jsonplaceholder.typicode.com/posts/1")
    if resp.status_code ≠ 200:
        # This means something went wrong.
        raise Exception('GET /tasks/{}'.format(resp.status_code))
    print(resp.json())

def get_filter():
    resp = requests.get("http://jsonplaceholder.typicode.com/posts?userId=1")
    if resp.status_code ≠ 200:
        # This means something went wrong.
        raise Exception('GET /tasks/{}'.format(resp.status_code))
    for element in resp.json():
        print(element)
```

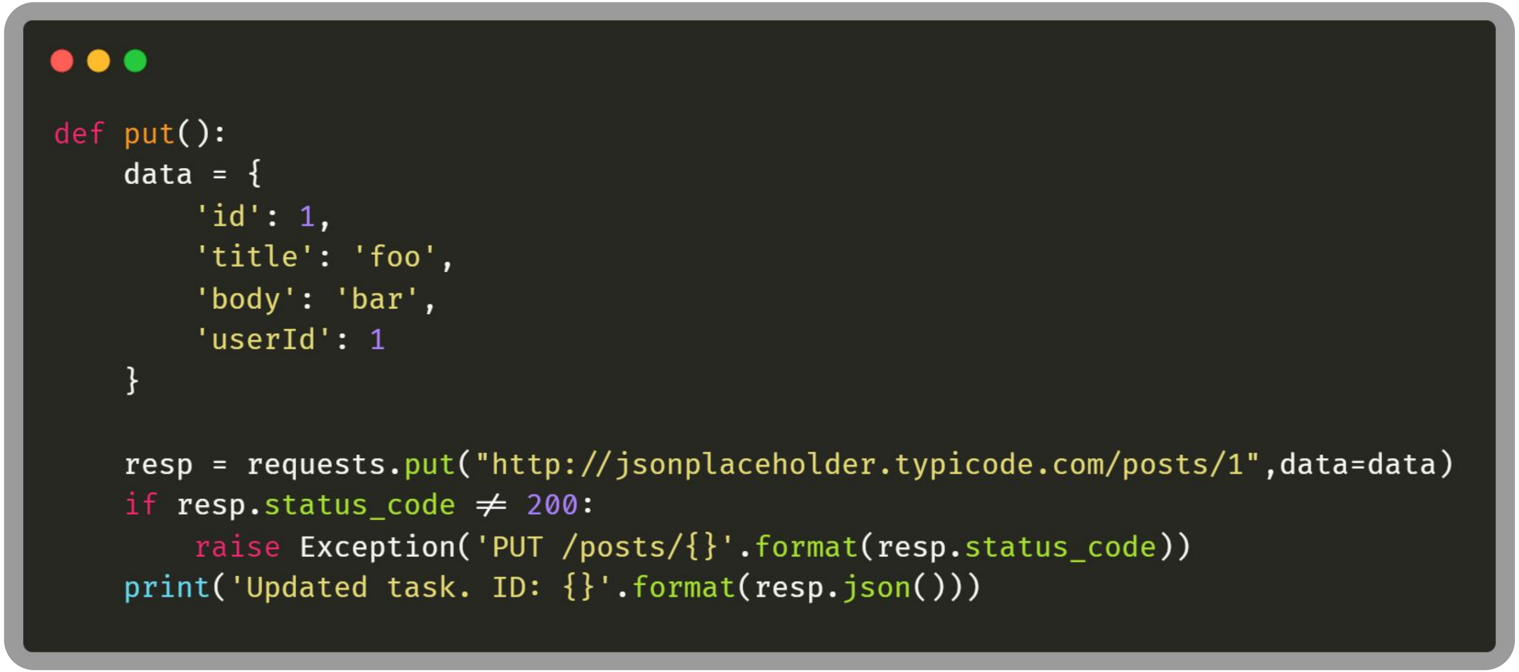
Examples: POST



```
def post():
    data = {
        'id': 101,
        'title': 'foo',
        'body': 'bar',
        'userId': 1
    }

    resp = requests.post("http://jsonplaceholder.typicode.com/posts/",data=data)
    if resp.status_code ≠ 201:
        raise Exception('POST /posts/{}'.format(resp.status_code))
    print('Created task. ID: {}'.format(resp.json()))
```

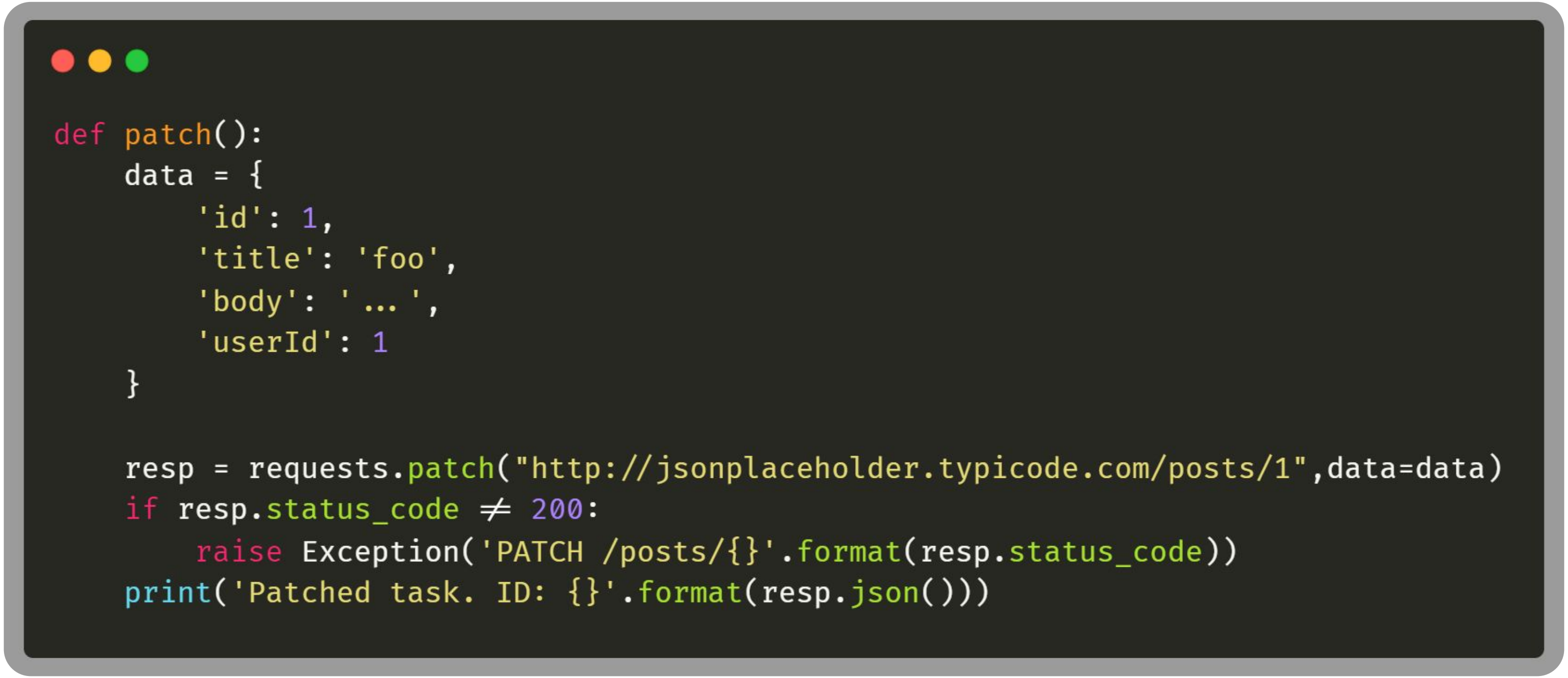
Examples: PUT



```
def put():
    data = {
        'id': 1,
        'title': 'foo',
        'body': 'bar',
        'userId': 1
    }

    resp = requests.put("http://jsonplaceholder.typicode.com/posts/1",data=data)
    if resp.status_code ≠ 200:
        raise Exception('PUT /posts/{}'.format(resp.status_code))
    print('Updated task. ID: {}'.format(resp.json()))
```

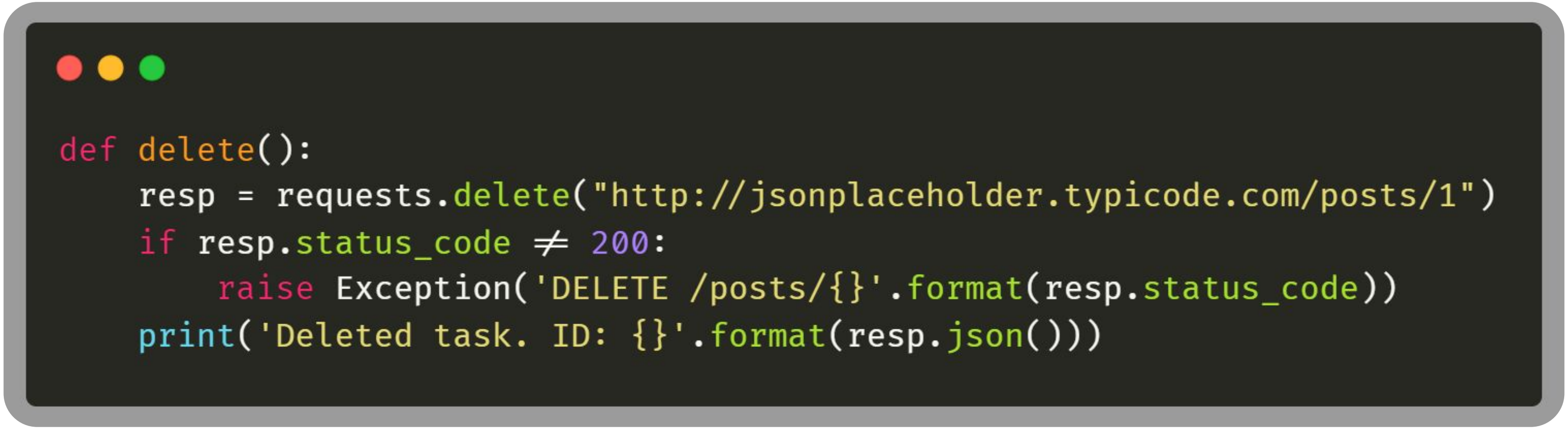
Examples: PATCH



```
def patch():
    data = {
        'id': 1,
        'title': 'foo',
        'body': '...',
        'userId': 1
    }

    resp = requests.patch("http://jsonplaceholder.typicode.com/posts/1",data=data)
    if resp.status_code ≠ 200:
        raise Exception('PATCH /posts/{}'.format(resp.status_code))
    print('Patched task. ID: {}'.format(resp.json()))
```

Examples: DELETE



```
def delete():
    resp = requests.delete("http://jsonplaceholder.typicode.com/posts/1")
    if resp.status_code ≠ 200:
        raise Exception('DELETE /posts/{}'.format(resp.status_code))
    print('Deleted task. ID: {}'.format(resp.json()))
```

Examples: Links

Requests: Link