

# Python Requests Cheat Sheet

## 1. Basic GET Request

```
response = requests.get('https://api.github.com')
data = response.json() # if response is JSON
```

## 2. Query Parameters

```
params = {'q': 'python', 'page': 2}
response = requests.get('https://api.example.com/search', params=params)
```

## 3. Custom Headers

```
headers = {'Authorization': 'Bearer TOKEN'}
response = requests.get('https://api.example.com', headers=headers)
```

## 4. POST with Form Data

```
data = {'username': 'user', 'password': 'pass'}
response = requests.post('https://api.example.com/login', data=data)
```

## 5. POST with JSON

```
json_data = {'name': 'Alice', 'age': 30}
response = requests.post('https://api.example.com/users', json=json_data)
```

## 6. PUT and DELETE

```
requests.put('https://api.example.com/item/1', json={'key': 'value'})
requests.delete('https://api.example.com/item/1')
```

## 7. Inspecting the Response

```
response.status_code
response.headers
response.json()
response.text
response.elapsed
response.history
```

## 8. Error Handling

```
try:
    r = requests.get(url, timeout=5)
    r.raise_for_status()
except requests.exceptions.Timeout:
    print('Request timed out')
except requests.exceptions.RequestException as e:
    print(e)
```

## 9. Authentication

```
from requests.auth import HTTPBasicAuth
response = requests.get(url, auth=HTTPBasicAuth('user', 'pass'))
```

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## 10. Timeouts and Sessions

```
session = requests.Session()
session.headers.update({'Authorization': 'Bearer TOKEN'})
response = session.get('https://api.example.com')
```

## 11. File Upload

```
files = {'file': open('example.txt', 'rb')}
response = requests.post('https://api.example.com/upload', files=files)
```

## 12. Handling Redirects

```
response = requests.get('https://example.com', allow_redirects=True)
response.history
```

## 13. Streaming Response

```
with requests.get(url, stream=True) as r:
    for chunk in r.iter_content(chunk_size=8192):
        process(chunk)
```

## 14. Cookie Handling

```
cookies = {'session_id': 'abc123'}
response = requests.get(url, cookies=cookies)
```