



06: Webservices with requests

<https://github.com/matthiaskoenig/itbtechtalks>

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Python library for working with HTTP requests

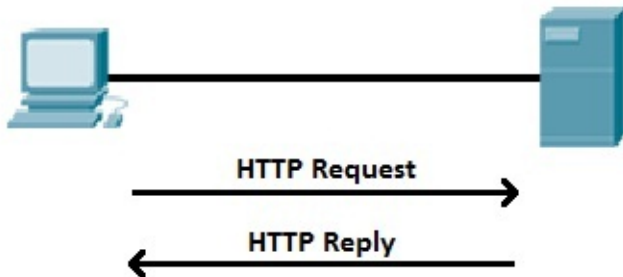
- abstraction of complexity
- elegant and simple HTTP library built for human beings

Applications

- accessing web services (REST)
- web scraping (beautifulsoup)
- web automatisisation

HTTP Client

HTTP Server



Request URL: <https://www.google.de/>

Request method: GET

Remote address: 172.217.17.99:443

Status code: 200 OK [?](#) [Edit and Resend](#) [Raw headers](#)

Version: HTTP/2.0

Request headers:

```
Host: www.google.de
User-Agent: Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:60.0)
Gecko/20100101 Firefox/60.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-GB,en;q=0.5
Accept-Encoding: gzip, deflate, br
Cookie: 1P_JAR=2018-4-24-9; NID=128=fBarVfpBg1Su-BDnDSeW2t4NnH0W4HWjPMc_H6-LuRI9G9GeSUoYsvEuttU5WqZNh-TcOcIPtbnLeRWCxKwlvJMqqOicpmmAFIzlawZxdrX3G0FFo8Ih1ykKj0pFnmK2EUxy1dY01XijlInnoFhYPH7b09Nd4f9jM9jv7CFJCRY3wG0sHUrObT7HnLA0zsZ3DFnwVF8mMX0tImuouzSniYuvTrhhdUXBXrwg; CONSENT=YES+DE.en+20151207-13-0; SID=xQXEP6JgePnG32qMBJ-kAfHIAZOYFFi-0tJrNz9MDfkshAtXVKfG8wvtzxk9_OEmN-q7Qg.; HSID=AvQXn0_IeQDwzfPlk; SSID=ASJBXmP9C2gMvSpdz; APISID=s4p23KSqVlZSDouE/AnXMCEk9hZKPTSX97; SAPISID=maUiER0f94NTtG09/AYe7FgvTW5q_b7sP3
DNT: 1
Connection: keep-alive
Upgrade-Insecure-Requests: 1
Pragma: no-cache
Cache-Control: no-cache
```

Response headers:

```
HTTP/2.0 200 OK
date: Tue, 24 Apr 2018 09:29:59 GMT
expires: -1
cache-control: private, max-age=0
content-type: text/html; charset=UTF-8
strict-transport-security: max-age=3600
content-encoding: br
server: gws
x-xss-protection: 1; mode=block
x-frame-options: SAMEORIGIN
set-cookie: 1P_JAR=2018-04-24-09; expires=Thu, 24-May-2018 09:29:59 GMT; path=/; domain=.google.de
alt-svc: hq=":443"; ma=2592000; quic=51303433; quic=51303432; quic=51303431; quic=51303339; quic=51303335,quic=":443"; ma=2592000; v="43,42,41,39,35"
X-Firefox-Spdy: h2
```