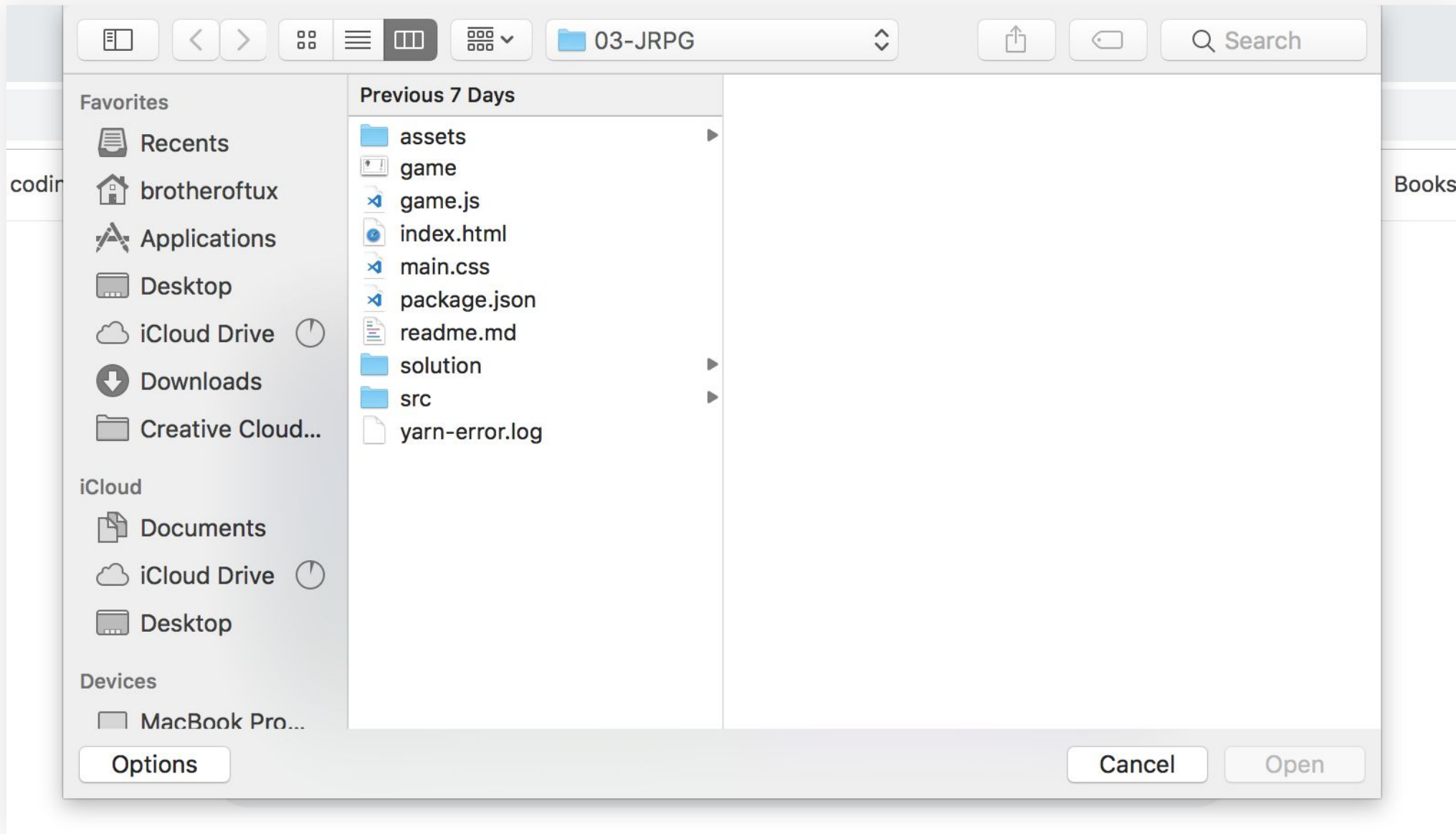


Network




connection



connection



HTTP



connection

```
brotheroftux — -bash — 111x36
Last login: Sun Oct 28 20:09:51 on ttys002
[[brotheroftux@MacBook Pro – Daniel // ~] $ ifconfig
lo0: flags=8049<UP,LOOPBACK,RUNNING,MULTICAST> mtu 16384
    options=1203<RXCSUM,TXCSUM,TXSTATUS,SW_TIMESTAMP>
    inet 127.0.0.1 netmask 0xff000000
    inet6 ::1 prefixlen 128
    inet6 fe80::1%lo0 prefixlen 64 scopeid 0x1
    nd6 options=201<PERFORMNUD,DAD>
gif0: flags=8010<POINTOPOINT,MULTICAST> mtu 1280
stf0: flags=0<> mtu 1280
XHC0: flags=0<> mtu 0
XHC20: flags=0<> mtu 0
en0: flags=8863<UP,BROADCAST,SMART,RUNNING,SIMPLEX,MULTICAST> mtu 1500
    ether dc:a9:04:71:b4:41
    inet6 fe80::43:b5f1:a71e:a3e2%en0 prefixlen 64 secured scopeid 0x6
    inet 192.168.43.151 netmask 0xfffff00 broadcast 192.168.43.255
    nd6 options=201<PERFORMNUD,DAD>
    media: autoselect
    status: active
```

```
en0: flags=8863<UP,BROADCAST,SMART,RUNNING,SIMPLEX,MULTICAST> mtu 1500
    ether dc:a9:04:71:b4:41
    inet6 fe80::43:b5f1:a71e:a3e2%en0 prefixlen 64 secured scopeid 0x6
    inet 192.168.43.151 netmask 0xffffffff broadcast 192.168.43.255
    nd6 options=201<PERFORMNUD,DAD>
    media: autoselect
    status: active
```

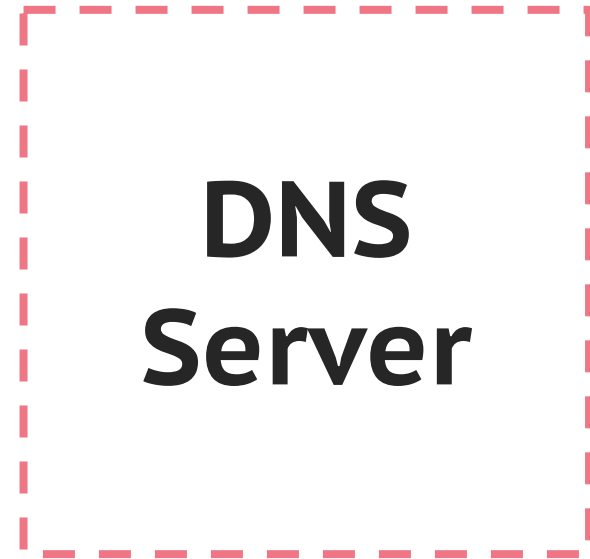
<https://google.com>

`https://google.com`

google.com -> ?.?.?.?

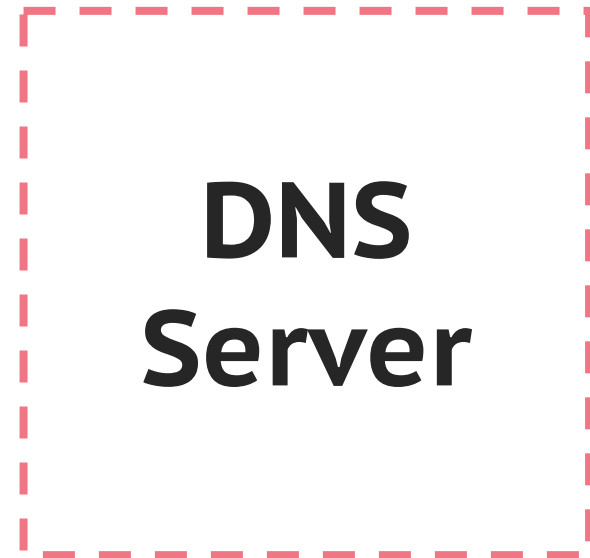


google.com

A solid black arrow pointing from the Client box to the DNS Server box.



←
173.194.122.152

A black arrow pointing left from the DNS Server box to the Client box, with the IP address "173.194.122.152" centered below it.

173.194.122.152:80

connecting to server

173.194.122.152:443

connecting to server

`https://173.194.122.152:443`

connecting to server

▼ **General**

Request URL: `https://www.google.com/`

Request Method: GET

Status Code:  200

Remote Address: `216.58.207.36:443`

▼ **General**

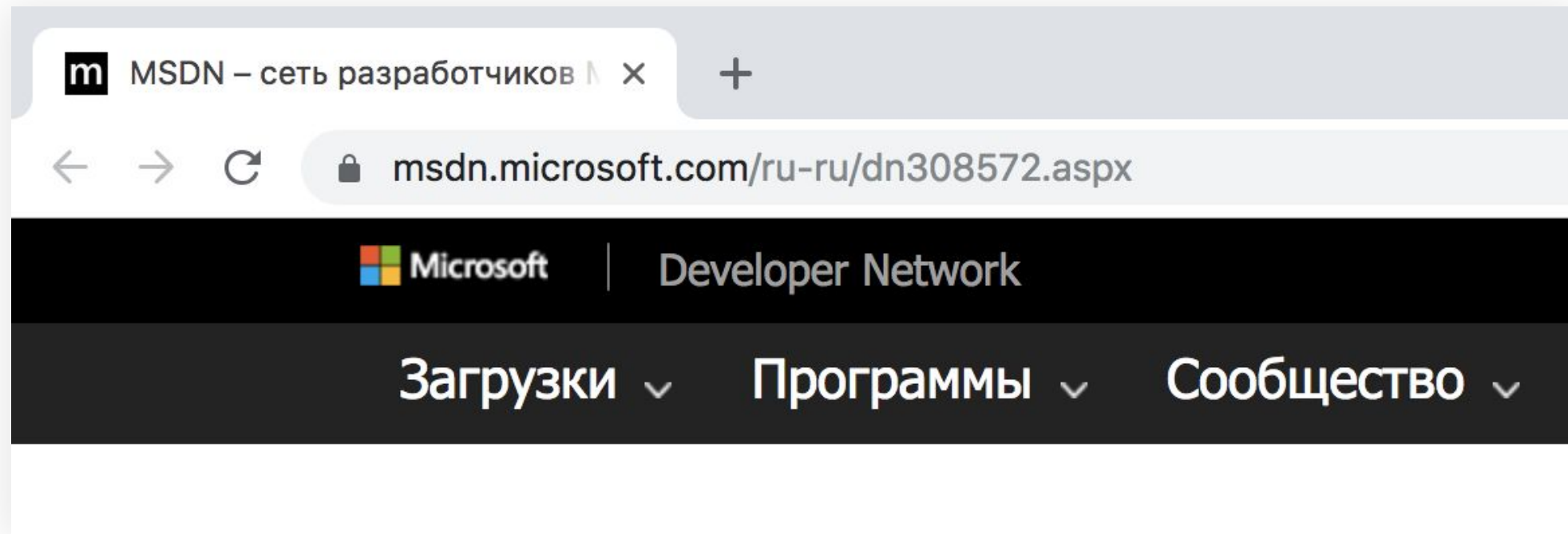
Request URL: `https://www.google.com/`

Request Method: GET

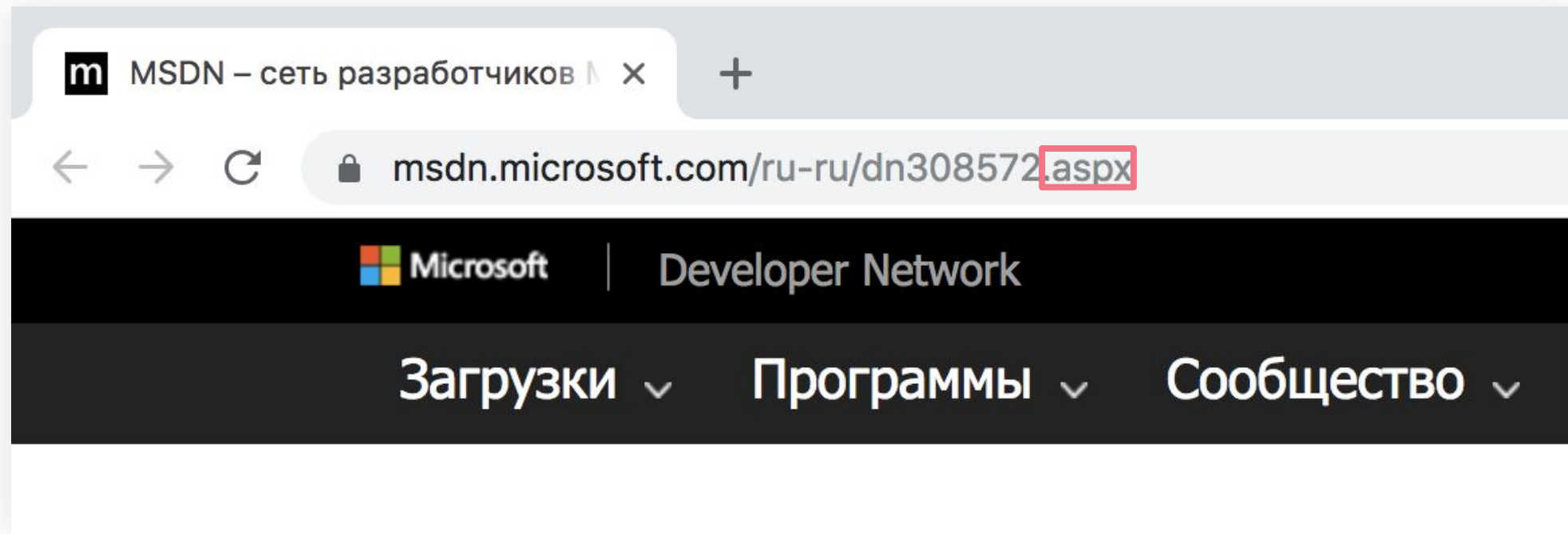
Status Code: ● 200

Remote Address: 216.58.207.36:443

A Misconception



it's all html



it's all html

▼ **General**

Request URL: `https://msdn.microsoft.com/ru-ru/dn308572.aspx`

Request Method: GET

Status Code:  200 OK

Remote Address: `104.66.113.52:443`

Referrer Policy: origin

```
x Headers Preview Response Cookies Timing
1 <!doctype html><html itemscope="" itemType="http://schema.org/WebPage"
2 "clickmod";else{var e=b.which||b.keyCode||b.key;D&&3==e&&(e=13);if(13!
3 da&&"A"!=q&&!G(g)&&!H(g)||"BUTTON"==q);g&&(b.preventDefault?b.preventD
4 "",e.actionElement=null;m=e;a.i&&(n=R(m.eventType,m.event,m.targetEle
5 m.event.type&&m.event._mouseEventsPrevented){b=m.event;for(var oa in b
6 c,e));return{s:c,o:e,capture:f}},0=function(a,d){if(!a.l.hasOwnPropert
7 (0<a.j.length&&d(a.j),a.j=null)},ma=function(a){this.g=a;this.h=[]},S=
8 d+"&bt=1", "")?m(a,b):a.href+="&bt=2";return!0};}).call(this);</script>
9 .gbii::before{content:url(https://lh3.googleusercontent.com/-iguvV_6nc
10 .gbii{background-image:url(https://lh3.googleusercontent.com/-iguvV_6nc
11 </style><style data-jiis="cc" id="gstyle">html,body{height:100%;margin
12 try{
13 var aa,ba,da,ja,ka,la,xa,ya;aa=function(a){var c=0;return function(){i
14 if("function"==typeof Object.setPrototypeOf)da=Object.setPrototypeOf;e
15 ka="undefined"!=typeof window&&window===this?this:"undefined"!=typeof
16 la("String.prototype.startsWith",function(a){return a?a:function(a,d)+
17 var ma=function(){ma=function(){};ka.Symbol||(ka.Symbol=na)},na=funct
18 c});
```

it's all html

```
GET /path/to/somewhere
```

```
response.end('Hello world!')
```

server decides how to handle response

GET /path/to/somewhere.php

→ php script.php →

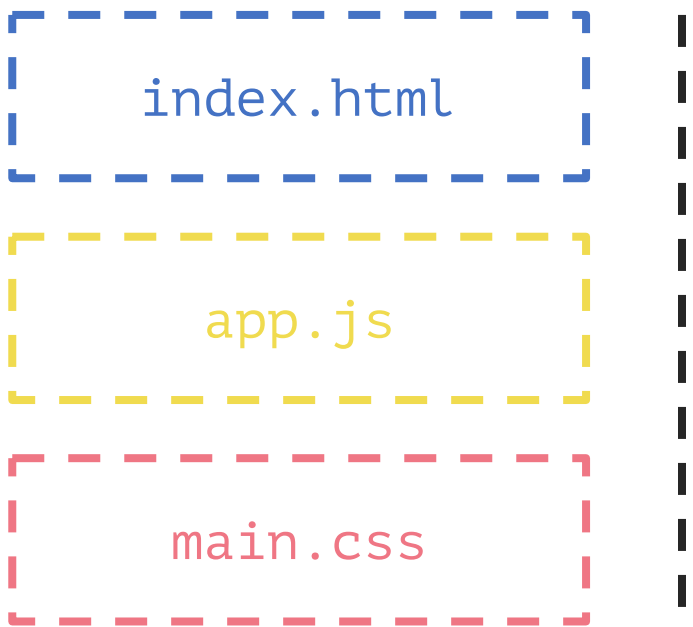
HTML →

server decides how to handle response

Подходы к разработке

Server-Side Rendering

Client-Side Rendering



client-side rendering

index.html

```
<!doctype html>  
<html>  
  <head> <!-- ... --> </head>  
  <body>  
    <div id='app'></div>  
  
    <script src='app.js'></script>  
  </body>  
</html>
```

client-side rendering

Isomorphic Rendering

XMLHttpRequest

xhr.js

```
const xhr = new XMLHttpRequest()

xhr.open('GET', 'url')
xhr.onreadystatechange = () => {
  if (xhr.readyState === XMLHttpRequest.DONE &&
      xhr.status === 200)
    console.log(xhr.responseText)
}
```

JSON

file.json

```
{  
  "key": "data"  
  "numericKey": 42  
}
```

json.js

```
const someObject = {  
  key: 'ayyy',  
  anotherKey: 45  
}  
  
const jsonString = JSON.stringify(someObject)  
// {"key": "ayyy", "anotherKey": 45}  
  
const parsedObject = JSON.parse(jsonString)  
parsedObject.key  
// ayyy
```

Практика

```
https://samples.openweathermap.org/data/2.5/weather?q=London,uk  
&appid=b6907d289e10d714a6e88b30761fae22
```

```
const object = JSON.parse(response)
```

```
object.main.temp - 273 // ~= 7
```