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Thursday - Week 4

Consuming a REST service

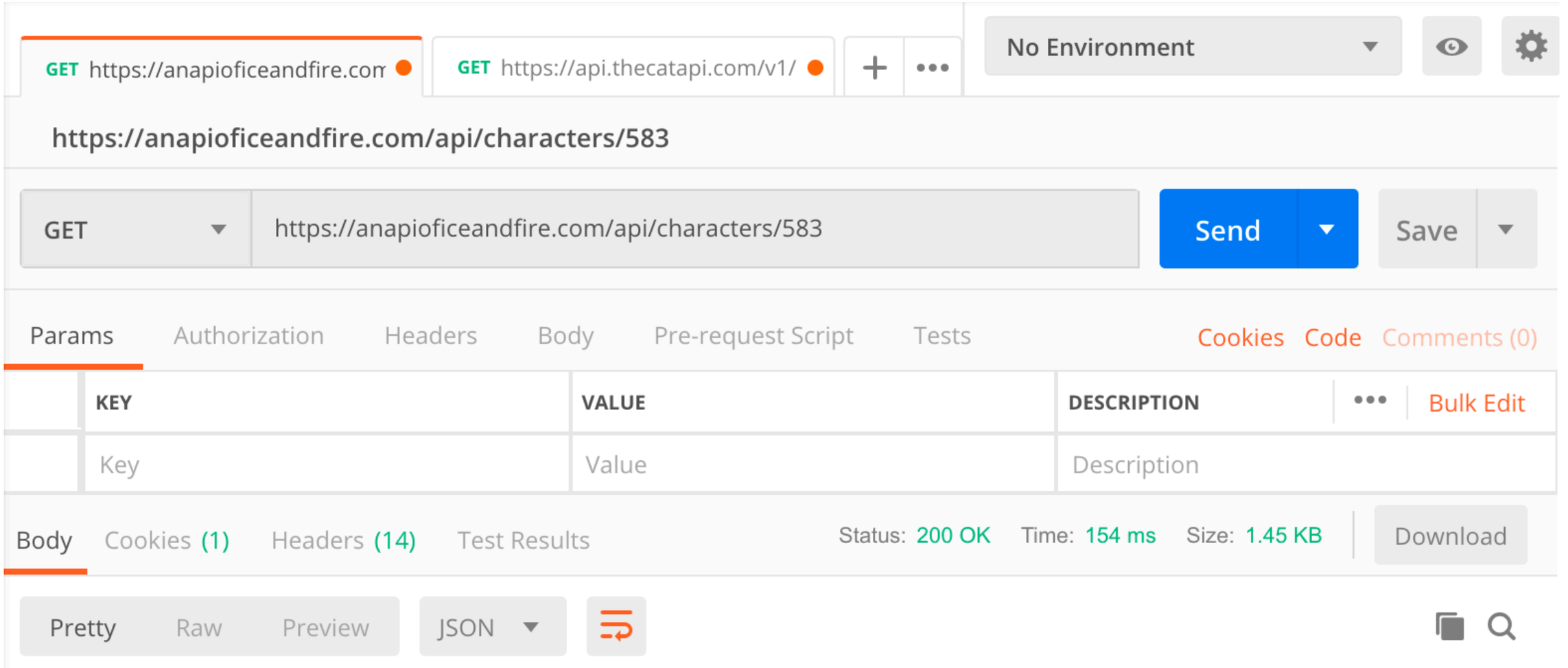
HTTP request methods

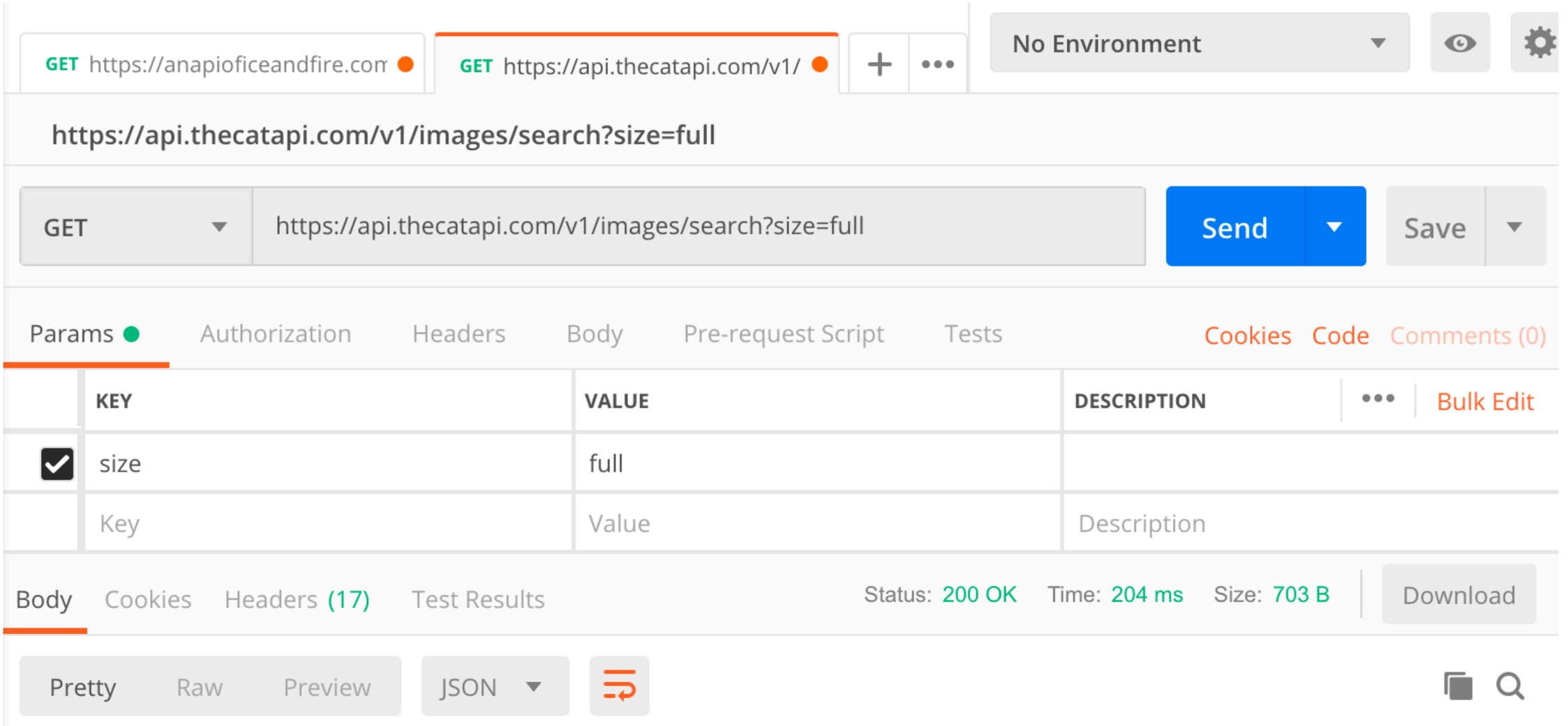
- GET
- HEAD
- POST
- PUT
- DELETE
- …
- https://developer.mozilla.org/en-US/docs/Web/HTTP/Methods

Postman

- We can use this to simulate request AND inspect the headers

- Examples

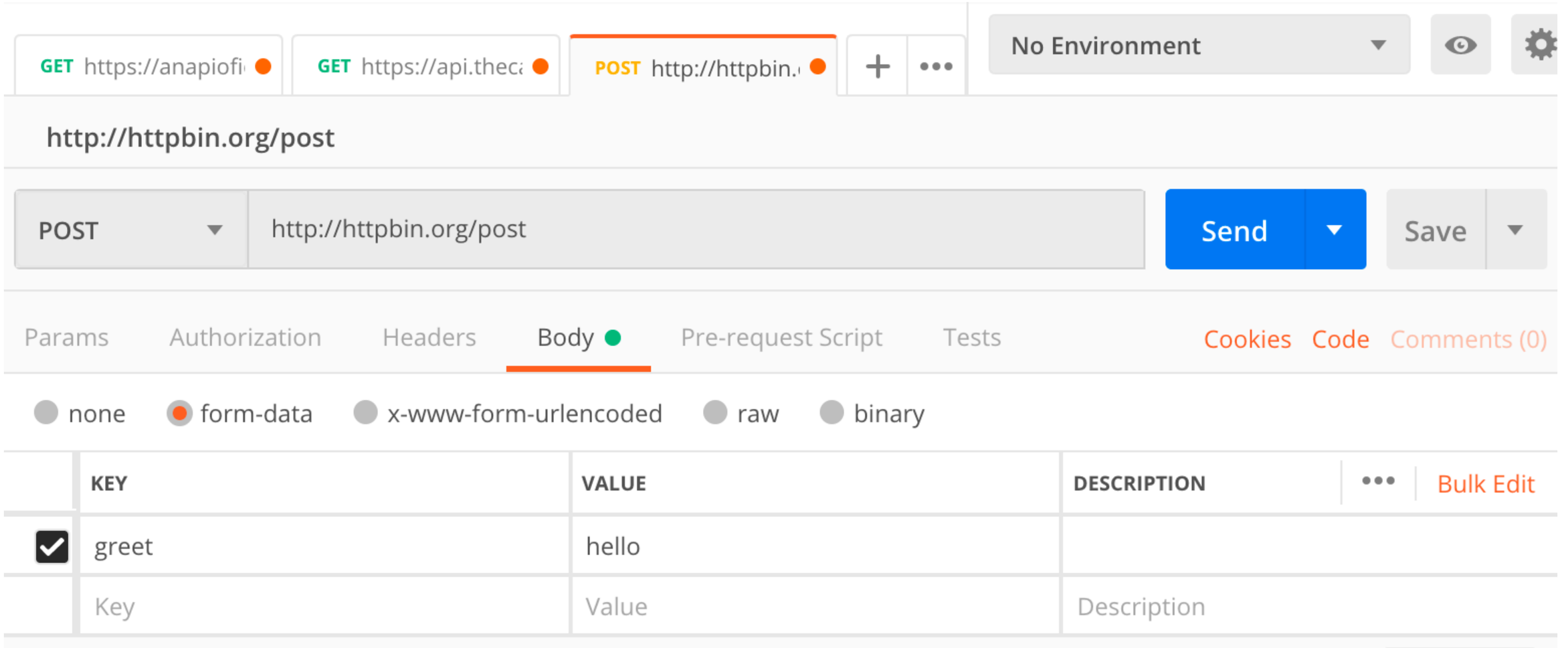

GET https://anapioficeandfire.com
GET https://api.thecatapi.com/v1/
No Environment
https://anapioficeandfire.com/api/characters/583
GET
https://anapioficeandfire.com/api/characters/583
Send
Save
Params
Authorization
Headers
Body
Pre-request Script
Tests
Cookies
Code
Comments (0)
KEY
VALUE
DESCRIPTION
Bulk Edit
Key
Value
Description
Body
Cookies (1)
Headers (14)
Test Results
Status: 200 OK
Time: 154 ms
Size: 1.45 KB
Download
Pretty
Raw
Preview
JSON


GET https://anapioficeandfire.com
GET https://api.thecatapi.com/v1/
No Environment
https://api.thecatapi.com/v1/images/search?size=full
GET
https://api.thecatapi.com/v1/images/search?size=full
Send
Save
Params
Authorization
Headers
Body
Pre-request Script
Tests
Cookies
Code
Comments (0)
KEY
VALUE
DESCRIPTION
Bulk Edit
size
full
Key
Value
Description
Body
Cookies
Headers (17)
Test Results
Status: 200 OK
Time: 204 ms
Size: 703 B
Download
Pretty
Raw
Preview
JSON

Testing your HTTP requests…

- httpbin.org

- Will return an appropriate response for ANY code/data that you send


GET https://anapiofi
GET https://api.thec
POST http://httpbin.
No Environment
http://httpbin.org/post
POST
http://httpbin.org/post
Send
Save
Params
Authorization
Headers
Body
Pre-request Script
Tests
Cookies
Code
Comments (0)
none
form-data
x-www-form-urlencoded
raw
binary
KEY
VALUE
DESCRIPTION
Bulk Edit
greet
hello
Key
Value
Description

{
"args": {},
"data": "",
"files": {},
"form": {
"greet": "hello"
},
"headers": {
"Accept": "*/*",
"Accept-Encoding": "gzip, deflate",
"Cache-Control": "no-cache",
"Content-Length": "165",
"Content-Type": "multipart/form-data; boundary
=--------------------------330133554851134682155118",
"Host": "httpbin.org",
"Postman-Token": "77fc4b03-2009-405b-b164-c6dfa1672b09",
"User-Agent": "PostmanRuntime/7.6.0"
},
"json": null,
"origin": "78.41.121.138, 78.41.121.138",
"url": "https://httpbin.org/post"
}

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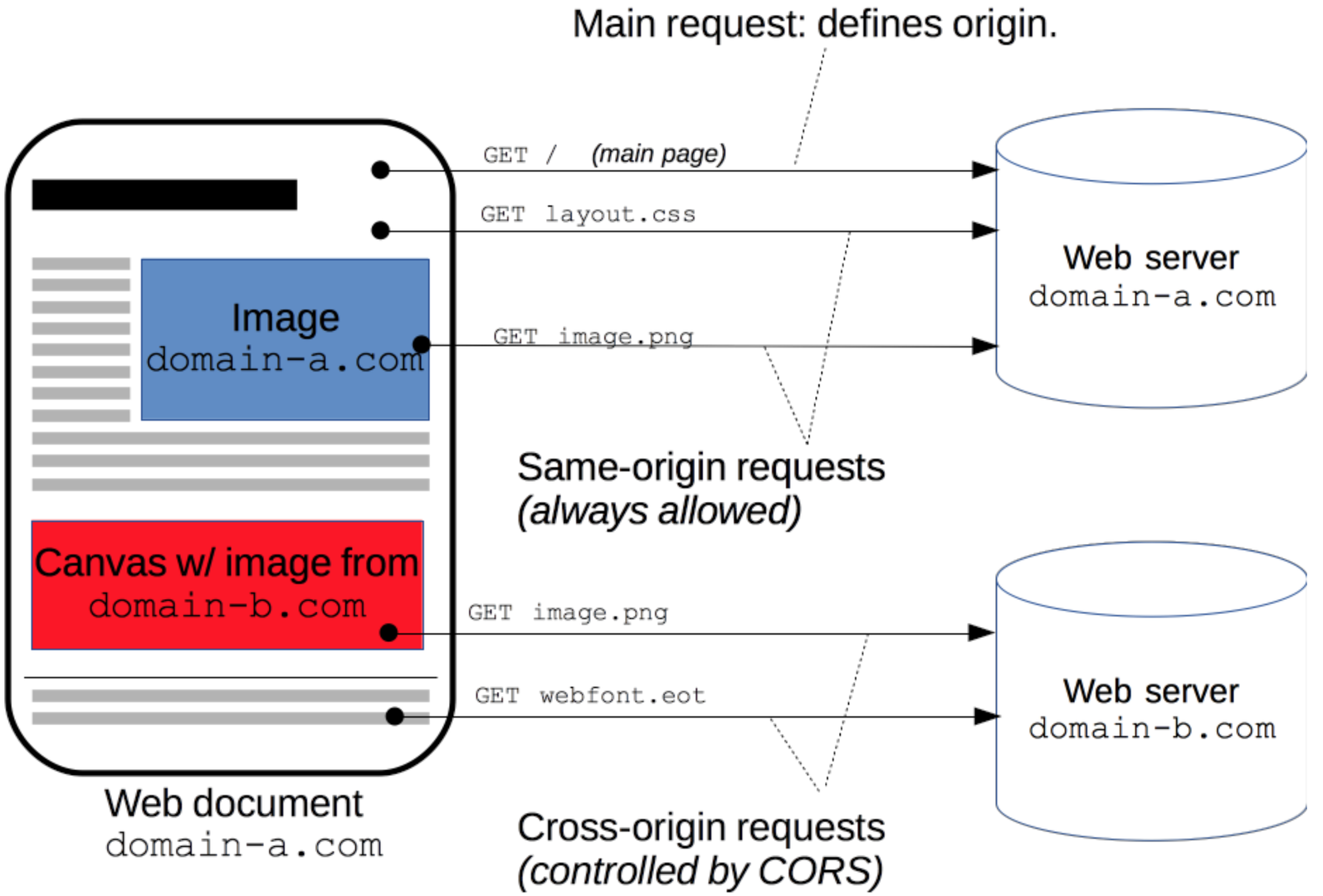
Cross Origin Resource Sharing (CORS)


Main request: defines origin.
GET / (main page)
GET layout.css
GET image.png
Image
domain-a.com
Web server
domain-a.com
Same-origin requests
(always allowed)
Canvas w/ image from
domain-b.com
GET image.png
GET webfont.eot
Web server
domain-b.com
Web document
domain-a.com
Cross-origin requests
(controlled by CORS)

CORS

- Explained: https://developer.mozilla.org/en-US/docs/Web/HTTP/CORS

- Quick Guide: https://spring.io/guides/gs/rest-service-cors/

CORS

- Even Quicker Guide!

- It’s an annotation:
  @CrossOrigin

- You can also use CORSFilter manually…
  https://howtodoinjava.com/servlets/java-cors-filter-example/

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Extras!

Some other topics of interest

Cookies!

- TDLR; It’s a parameter annotation

```
  //..
@RequestMapping("/hello.html")
public String hello(@CookieValue("foo") String fooCookie) {

  //..
}
```

- https://viralpatel.net/blogs/spring-mvc-cookie-example/

Sessions

- We will use cookies / sessions more during the JavaScripts
- But it is 100% feasibly to do with Java too

- https://examples.javacodegeeks.com/enterprise-java/spring/session/spring-session-tutorial/