

Transfer

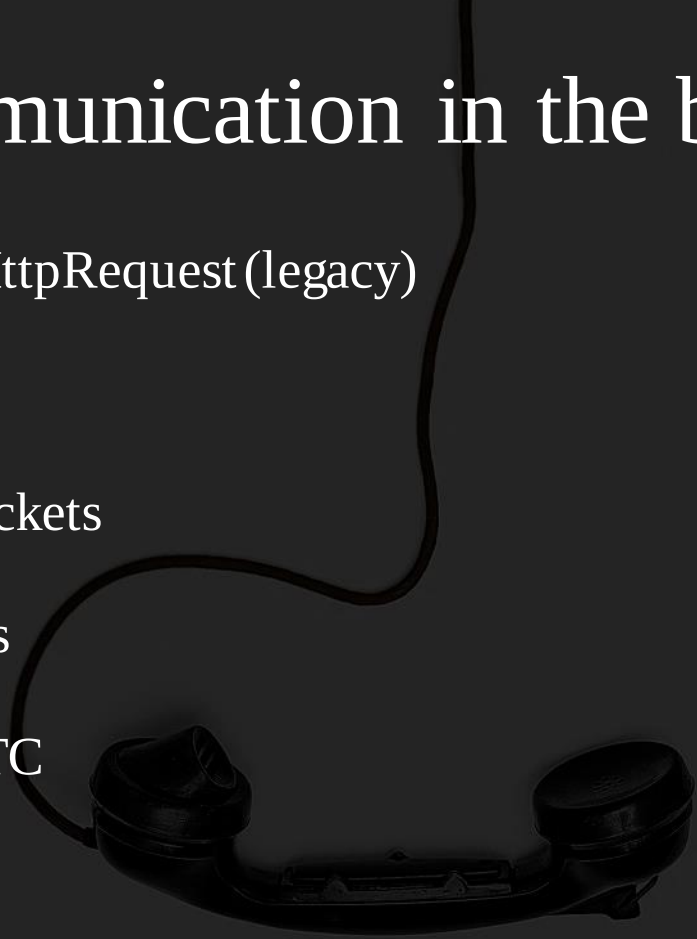
Introduction to network communication in the browser



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Communication in the browser

- ✓ XMLHttpRequest (legacy)
- ✓ Fetch
- ✓ Websockets
- ✓ imports
- ✓ WebRTC
- ✓ ...



HTTP in the Browser

Hypertext Transfer Protocol

Methods (Verbs):

- GET
- POST
- PUT
- PATCH
- DELETE
- ...

supported in a forms
action-attribute



HTTP

200	OK	Redirects
301	Moved Permanently	
307	Temporary Redirect	
400	Bad request	Client Errors
401	Unauthorized	
403	Forbidden	
404	Not Found	Server Errors
500	Internal Server Error	
503	Service Unavailable	

HTTP - GET

Request

```
GET /theserverpage/?user=Ellen&message=Hello HTTP/1.1
Host: lnuserver.se
User-Agent: Leitets awesome browser
```

Response

```
HTTP/1.1 200 OK
Content-Length: 65432
Content-Type: text/html

<!doctype html>
<html>
... rest of document
```

HTTP - POST

Request

```
POST /theserverpage/ HTTP/1.1
Host: luserver.se
Content-Length: 24

user=Ellen&message=Hello
```

Response

```
HTTP/1.1 200 OK
Content-Length: 65432
Content-Type: text/html

<!doctype html>
<html>
... rest of document
```

AJAX

- ✓ 1999
Microsoft adds an Active X-control XMLHttpRequest) into Internet Explorer 5.
- ✓ 2000-tal
Mozilla, Safari and Opera implements XMLHttpRequest-object.
- ✓ 2005
The term *AJAX* was made up by Jesse James Garrett through the article [*Ajax: A New Approach to Web Applications*](#)
- ✓ 2006
Microsoft adds the XMLHttpRequest-object in the same way as other browsers (IE7)
- ✓ ~ 2015
Support for **fetch** introduced

