

+0.2 to find Gr 12.8.25

+0.1 24.9.25



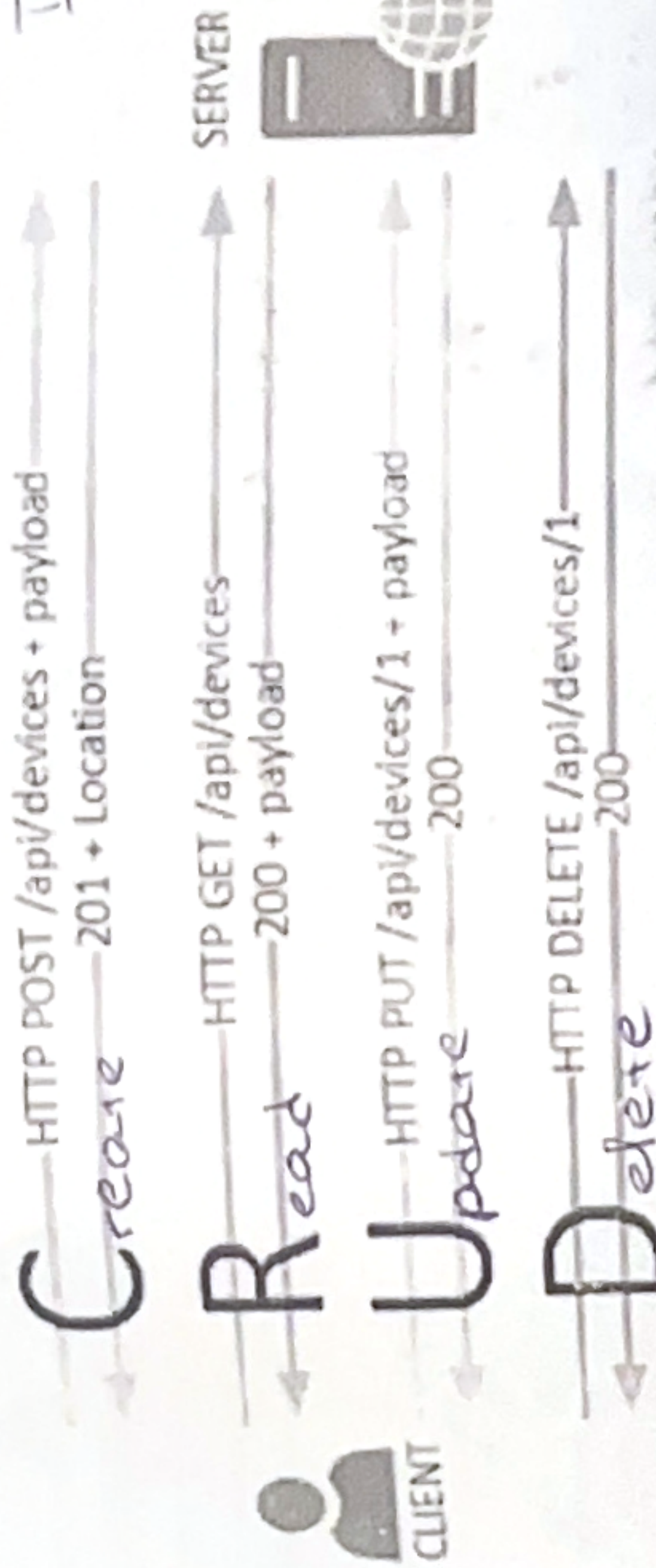
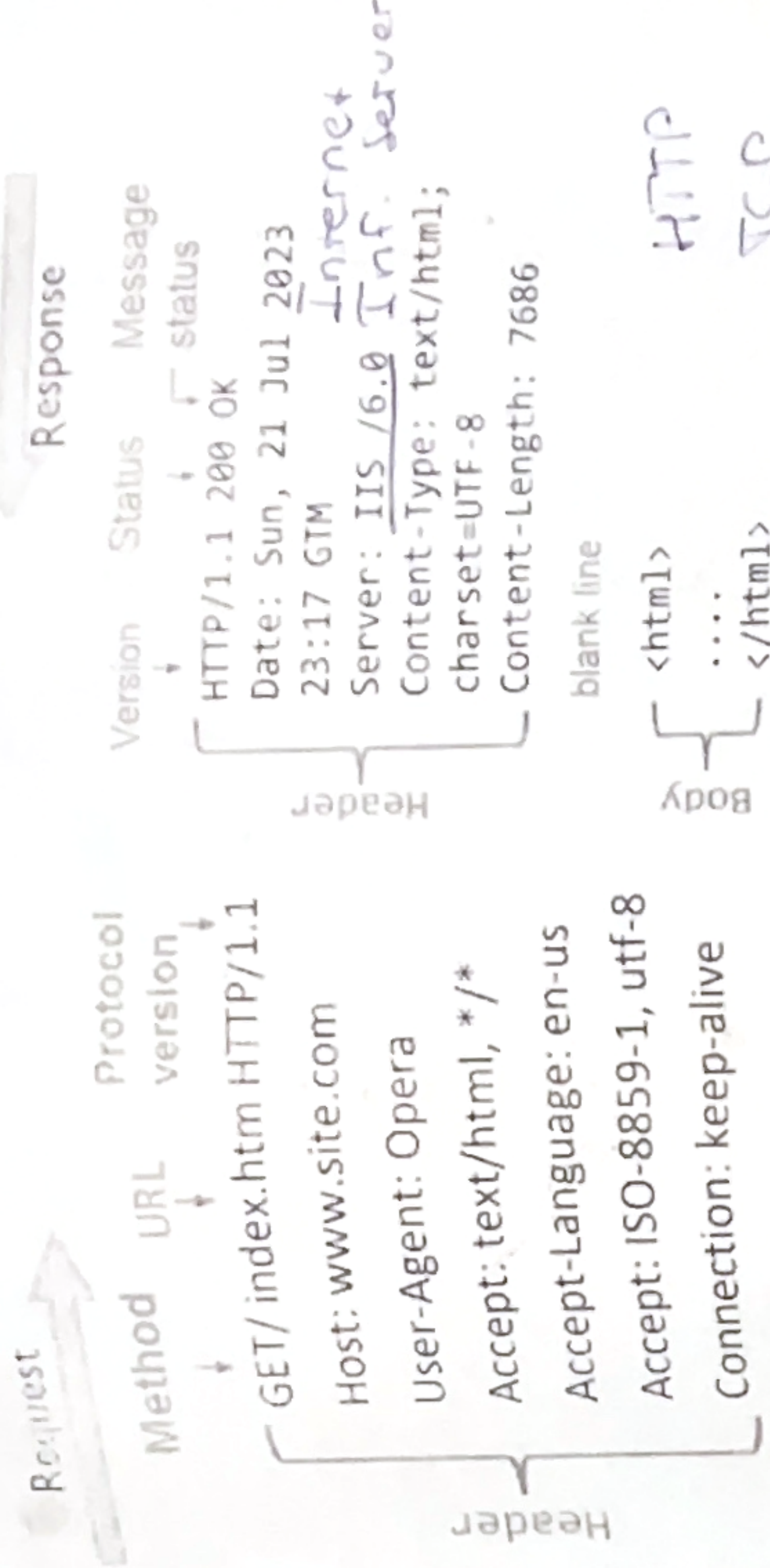
tracert - tracerout (in Apple) www.geotraceroute.com

172 . 16 . 254 . 1
 ↓ ↓ ↓ ↓
 10101100.00010000.11111110.00000001
 8 bits 32 bits (4 bytes)
 DNS - clearer address.

217.21.43.40 - sbmt.by, sbmt.bsu.by sb.bsu.by
 ping sb.bsu.by tracert sb.bsu.by https://geotraceroute.com/
 +375 (29) 254 07 92 - ANDREY O. YAROSHEVICH ip Tracer

+0.1 - 28 = 256

+0.2 275. . .



- GET — getting a resource
- POST — resource creation
- PUT — resource update
- DELETE — deleting a resource

Methods	Request		Response	
	URL	Request body	Status	Response body
1 GET	Yes	No	Yes	Yes
2 PUT	Yes	Yes	Yes	No
3 POST	Yes	Yes	Yes	Yes
4 DELETE	Yes	No	Yes	No


```
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <meta name="robots" content="noindex">
```

no need for spiders



```
<style>
  #container {
    display: flex;
    flex-wrap: wrap;
    align: center;
  }
  #container > div {
    background-color: gray;
    font-size: 20px;
    margin: 20px;
    padding: 20px;
    width: 200px;
    text-align: center;
  }
</style>
```

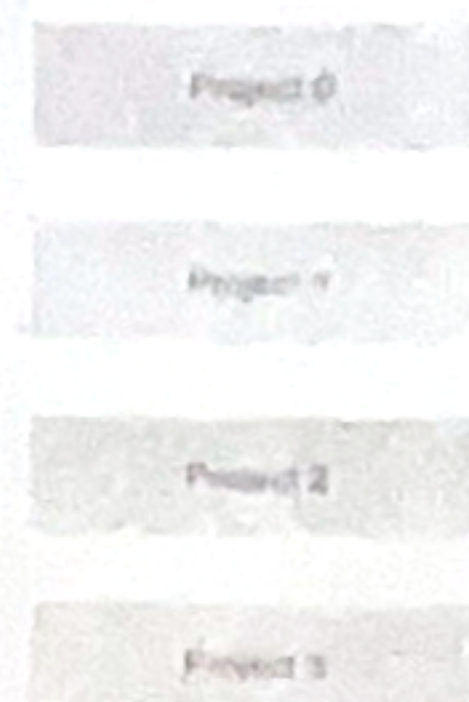
```
<body>
```

```
  <div id="container">
    <div>Project 0</div>
    <div>Project 1</div>
    <div>Project 2</div>
    <div>Project 3</div>
  </div>
```

```
</body>
<html>
```



Ludovik Zamenhof



<https://dot.net.by/esperanto/>



<!-- Google Font -->

```
<link href="https://fonts.googleapis.com/css2?family=Poppins:wght@300;500;700&display=swap"
rel="stylesheet">
```

```
<style>
```

```
  body {
```

```
    font-family: 'Poppins', sans-serif;
```

```
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha3/dist/css/bootstrap.min.css"
rel="stylesheet">
```

```
<div class="buttons">
```

```
<a href="project1.html" class="btn btn-primary btn-project">Project 1</a>
```

```
@media (min-width: 768px) {
```

```
  .profile-image {
```

```
    width: 200px;
```

```
    height: 200px;
```

```
  }
```

```
  .name {
```

```
    font-size: 2.5rem;
```

```
  }
```

```
}
```

changing class

to enlarge photos on large screens from 150 to 200px

The same goes for fonts


```

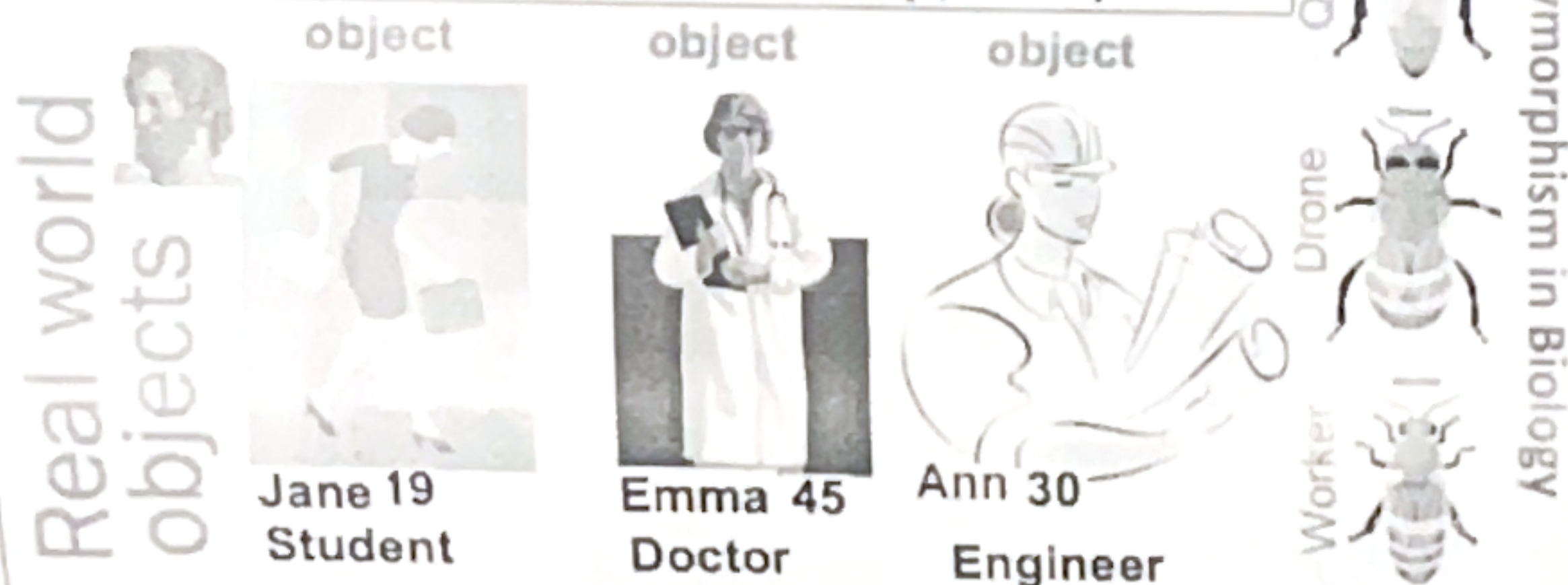
class ACat {
    string name;
    public ACat(n){
        this.name=n;
    }
}
ACat mycat= new ACat("Barsik");

class ACat {
    constructor(n) {
        this.name = n; //property
    }
}
mycat = new ACat("Barsik");

Say() {
    return "meou";
}
s =
    "My cat says <b>"
    + myCat.Say()+
    "</b> !"

```

class To describe a Woman: name, age, job
Women can do: eat, drink, sleep, walk, ...



Error

```

<script>
class APet {
    Say() {
        alert("No");
    }
}
class ACat extends APet {
    Say() {
        return "Miou";
    }
}
var myPet =
    new ACat("Barsik");

S = "My pet says <b>"
    + myPet.Say()+
    "</b> !"
</script>

```

unacceptable

function WashDishes()

Men's version
wipe dry



Female version
wet with water



```

class AMan {
    WashDishes() {
        return 'wipe dry';
    }
}

```

```

class AWomen {
    WashDishes() {
        return 'wet';
    }
}

```

```

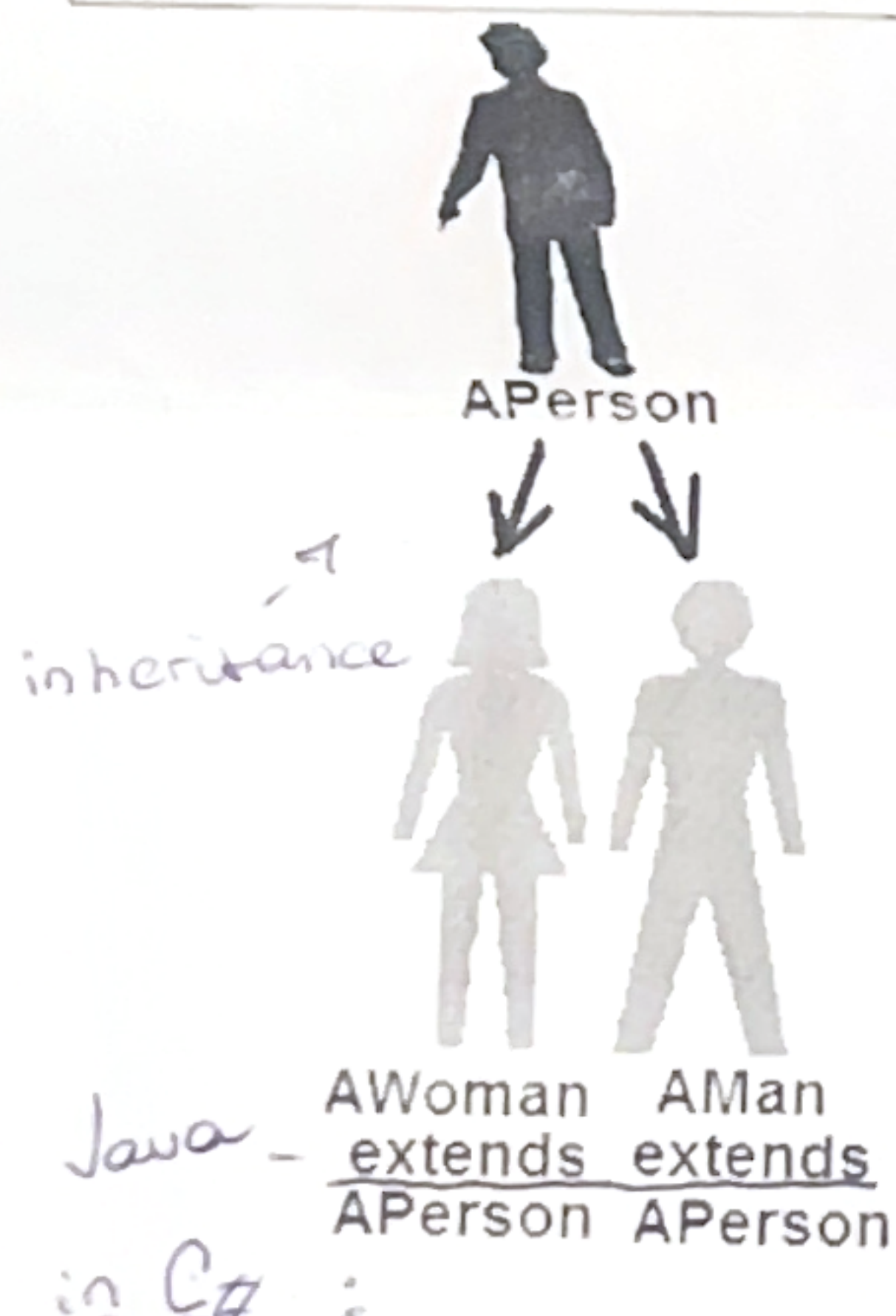
var family = [new AWomen(), new AMan()];
for(i=0;i<2;i++){ alert(" " + family[i].WashDishes());} //dry wet

```

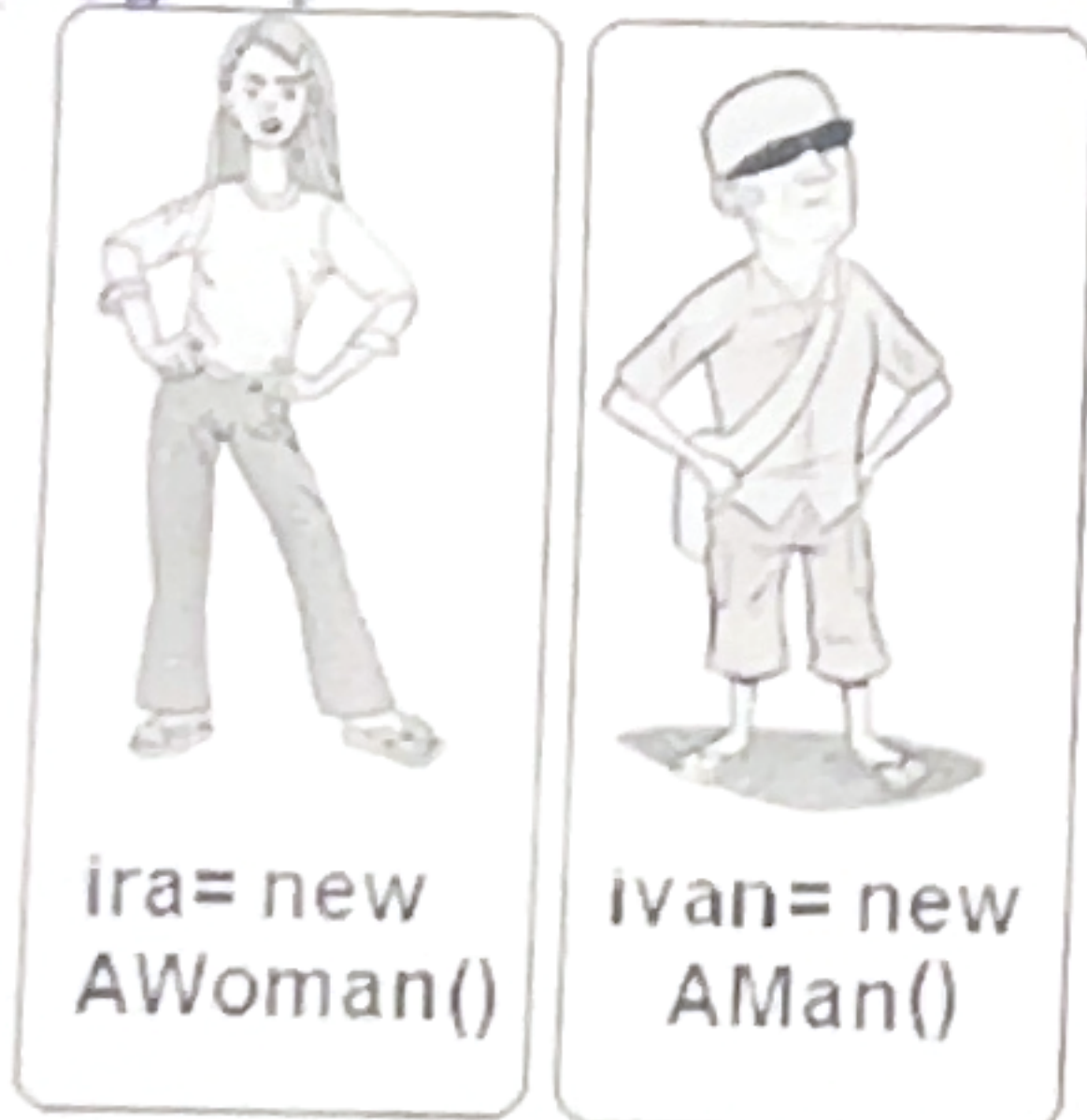
```

women = new AWomen(); man = new AMan(); var family = [women,man];

```



Java -
in C# :



ES6:

[asp.net.by/es6/01.htm](#) [asp.net.by/es6/02.htm](#) let const

[asp.net.by/es6/03.htm](#) Arrow functions:

$x = (x, y) \Rightarrow y + "." + x;$

or `function abc(x, y) { x("sbmt.by", "SBMT"); }`

[asp.net.by/es6/04.htm](#)

`function myExam(y = 4) { // - default option (~ 7) }`

[asp.net.by/es6/05.htm](#) Array.**find**(myFunction)

`fibonacci = [1, 1, 2, 3, 5, 8]`

index 0 1 2 3 4

`var first = fibonacci.find(myFunction);`

`function myFunction(value, index, array) {`

`return value > 4;`

`}`

[asp.net.by/es6/06.htm](#) Array.**findIndex**()

`var fibonacci = [1, 1, 2, 3, 5, 8];`

— `fibonacci[4]`

// The first digit > 4 - has index 4

`var first = fibonacci.findIndex(myFunction);`

`function myFunction(value, index, array) {`

`return value > 3;`

`}`

[asp.net.by/es6/07.htm](#) Классы

`class ACat { constructor(n) {`

`this.name = n; //property`

`}`

`}`

`mycat = new ACat("Барсик");`

`class ACat {`

`constructor() {`

`return 'Меня зовут ' + this.name;`

`}`

`mycat = new ACat("Барсик");`

`document.write(mycat.Name());`

`}`

[asp.net.by/es6/08.htm](#)

[asp.net.by/es6/09.htm](#)

Array.**forEach**()

`var colors = ["red",`

`"green", "blue"];`

`colors.forEach(myFunction);`

`function myFunction(item, index) {`

`item ... index`

`}`

Меня зовут Барсик

item

`var colors = ["red", "green", "blue"];`

0 1 2

index

Promise

`new Promise(executor)`

`state: "pending"`

`result: undefined`

`state: "fulfilled"`

`result: value`

`state: "rejected"`

`result: error`

Callback

`Function One () {`

`// Do something`

`// negative Python`

`Function Two (call_One) {`

`// Do something else`

`call_One()`

`}`

`Two(One);`

`code is being executed`

[https://asp.net.by/es6/13/promise.htm](#)

running a constructor



a sc...

querySelector

First we need to access the button element in our JavaScript code.

variable name. We store the button in this variable to reuse it later

selects the first HTML element which the query applies to

`const button = document.querySelector("button");`

variable definition, we could use `let` or `var` instead. But `const` is preferred

The context in which the `querySelector` will search for the given query. Here this is the HTML file

same syntax as CSS selectors. you can refer to elements, ids or classes here.

```
<html>
<head>
  <title>Hello</title>
  <script>
    function Hello(){
      document.querySelector('h2').innerHTML=
        "Hello JavaScript!";
    }
  </script>
</head>
<body>
  <h2></h2>
  <button onclick="Hello()">Click
  Me!</button>
</body>
</html>

document.addEventListener
('DOMContentLoaded',function(){
  document.querySelector('button').onclick
    = Hello; }
);
```

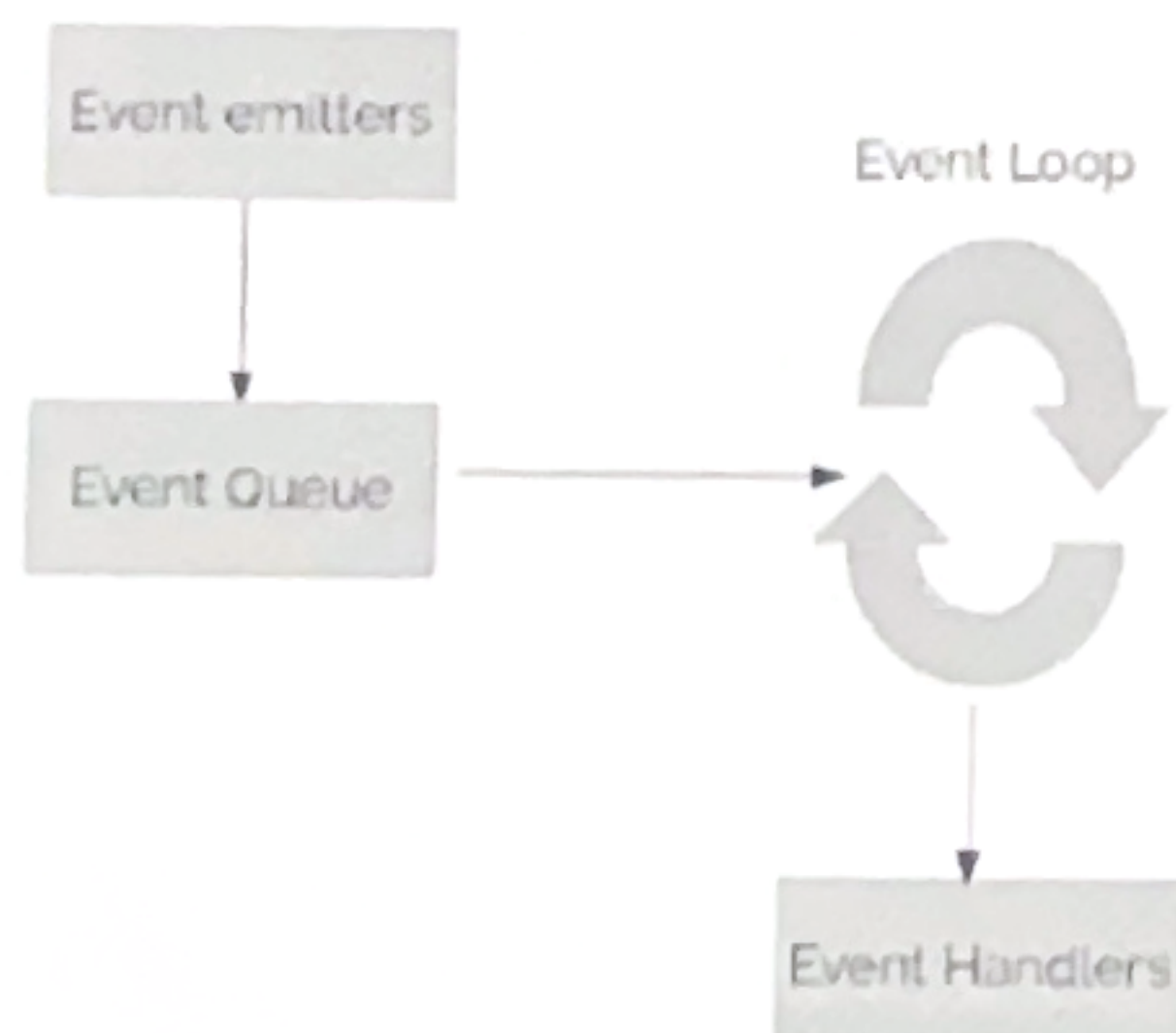
```
<html>
<head>
  <title>Hello</title>
</head>
<script>
  function Hello(){
    document.querySelector('h2').innerHTML="Hello JS!";
  }
</script>
<body>
  <h2></h2>

  <script>
    document.querySelector('button').onclick =
      Hello;
  </script>

  <button onclick="Hello()">Click Me!</button>
  <script>
    document.querySelector('button').onclick = Hello;
  </script>
</body>
</html>
```

Uncaught `counter.htm:13`
 TypeError: Cannot set
 properties of null (setting
 'onclick')
 at `counter.htm:13:45`

`document.querySelector('button').addEventListener('click',Hello);`



```
<button onclick="Hello()">Click
Here</button>
<script>
  let counter = 0;
  function Hello(){
    counter++;
    const heading=
      document.querySelector('h1');
    heading.innerHTML = counter;
  }
</script>
```


data transfer
done by Microsoft

+0.1

to fin
Grade

<=JSON vs XML=>

```
{
  "managers": [
    { "firstName": "Bill",
      "lastName": "Gates" },
    { "firstName": "Mike",
      "lastName": "Dell" },
  ]
}
```

```
< managers >
  < manager >
    < firstName > Bill < /firstName >
    < lastName > Gates < /lastName >
  < /manager >
  < manager >
    < firstName > Mike < /firstName >
    < lastName > Dell < /lastName >
  < /manager >
< /managers >
```

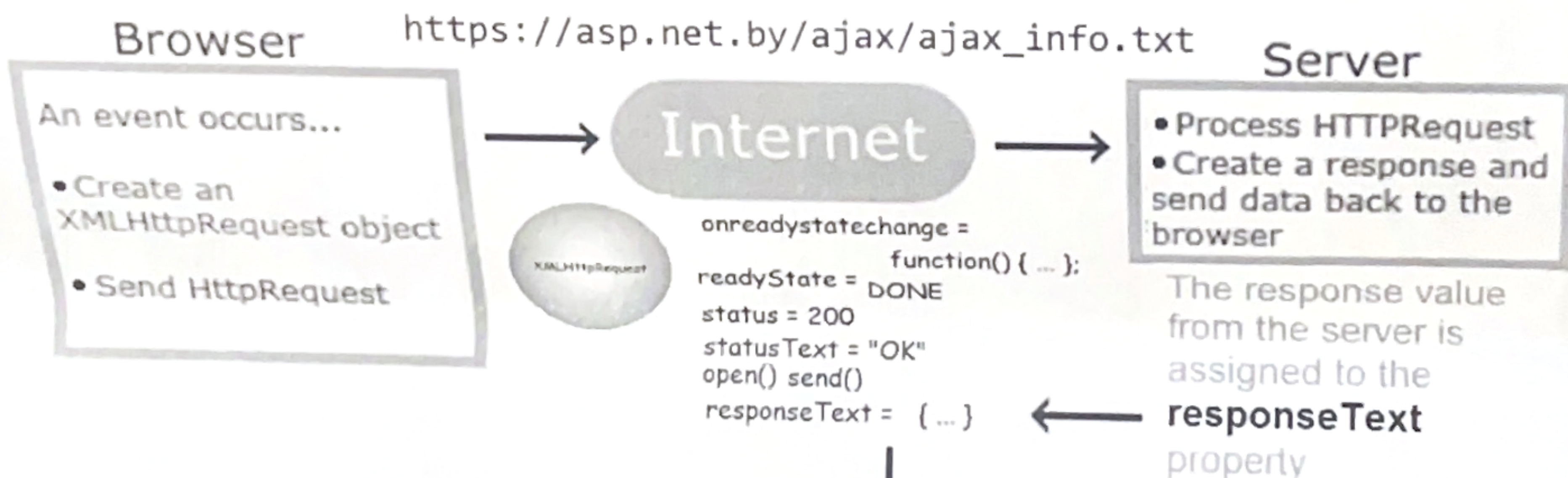


data transfer
using JS



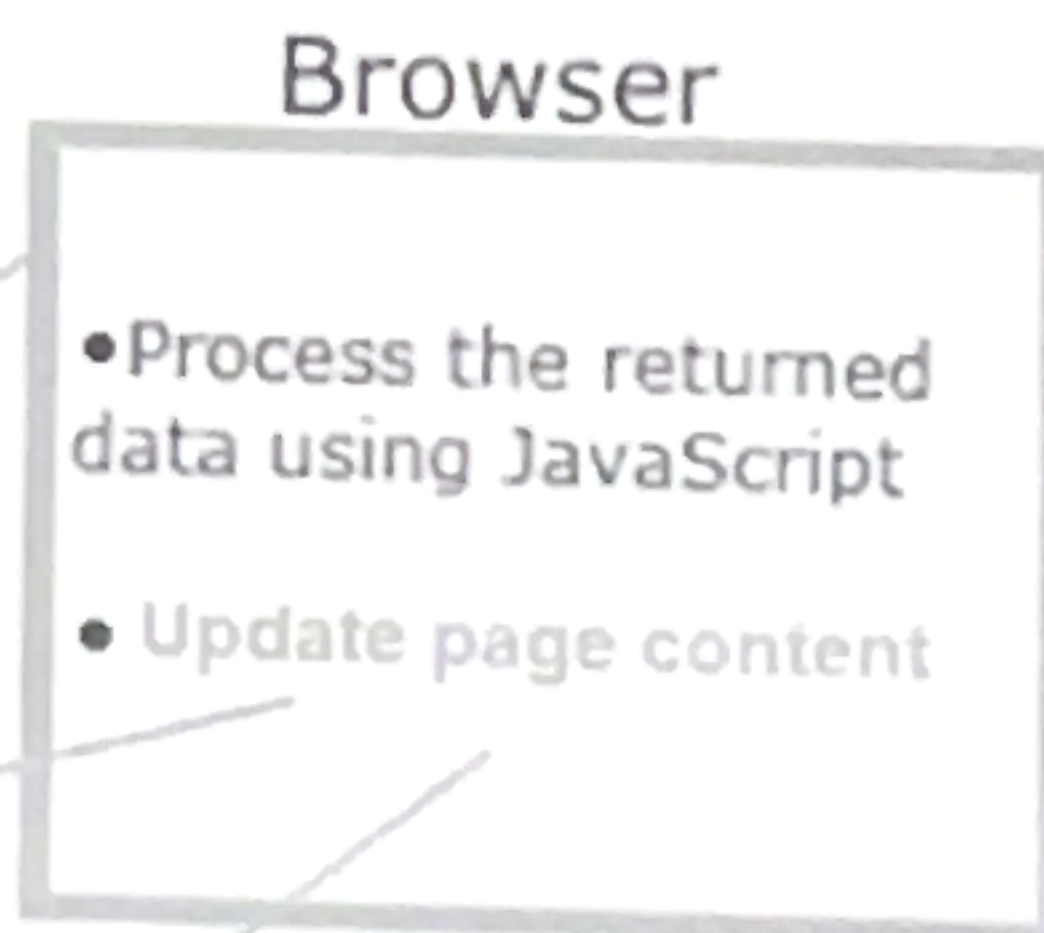
For security reasons, modern browsers do not allow access across domains.

All must be located on the same server.



```
<!DOCTYPE html>
<html>
<body>
<script>
function loadDoc() {
  var xhttp = new XMLHttpRequest();
  xhttp.onreadystatechange =
  function() {
    if (this.readyState == 4 && this.status == 200) {
      document.getElementById("demo").innerHTML =
      this.responseText;
    }
  };
  xhttp.open("GET", "ajax_info.txt", true);
  xhttp.send();
}
</script>

<div id="demo">
  <h2>Let AJAX change this text.</h2>
  <button type="button" onclick="loadDoc()">GO
  </button>
</div>
```



('DOMContentLoaded', () <- when page content is loaded