



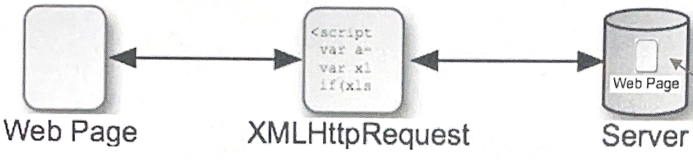
```

{"managers":[ <=JSON vs XML=> < managers >
  {"firstName":"Bill",
  "lastName":"Gates"},
  {"firstName":"Mike",
  "lastName":"Dell"}
]}

```

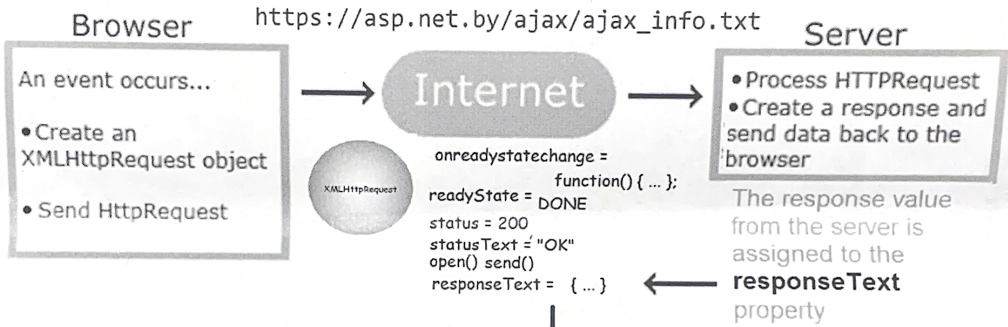
data transfer with JS.

<pre> <manager> <firstName>Bill</firstName> <lastName>Gates</lastName> </manager> </pre>	
<pre> <manager> <firstName>Mike</firstName> <lastName>Dell</lastName> </manager> </pre>	



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

All must be located on the same server.



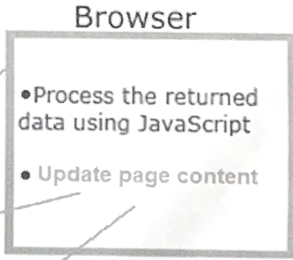
The response value from the server is assigned to the **responseText** property

```

<!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>

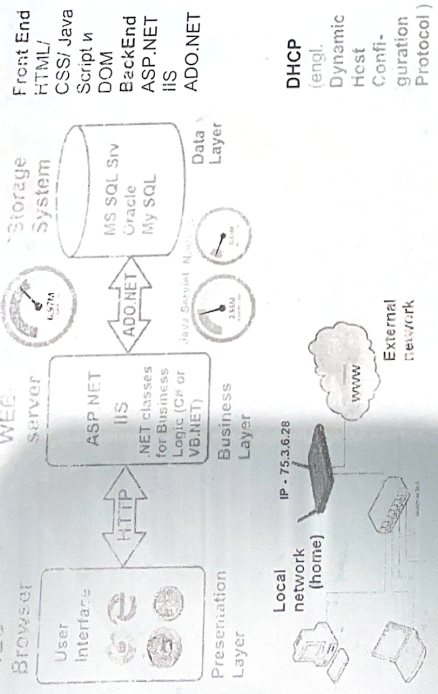
<div id="demo">
  <h2>Let AJAX change this text.</h2>
  <button type="button" onclick="loadDoc()">GO
  </button>
</div>

```

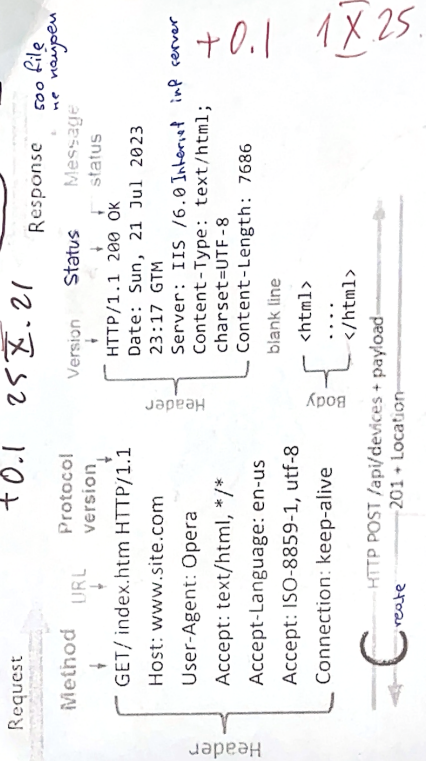


('DOM ContentLoaded') → топ срабатываєт when the page (content) is loaded

+0.3 for Heart And First 12.09.25
 +0.1 to fun Grade

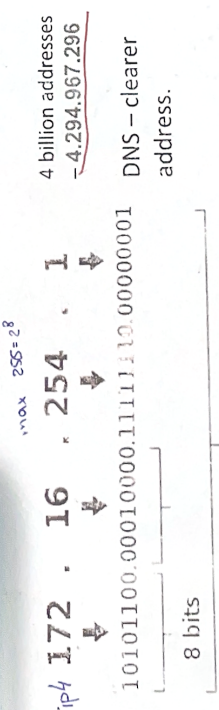


+0.1 CH oop
 +0.1 25.8.3 (+0.1) 28.8.25
 +0.1 25.8.21



+0.1 1x25

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



32 bits (4 bytes)
 217.21.43.40 -- sbmt.bsui.by, sbmt.bsui.by
 ping sb.bsui.by tracerout sb.bsui.by https://geotraceroute.com/
 +375 (29) 254 07 92 - ANDREY O. YAROSHEVICH

+0.1 28 = 256
 +0.1 from ip config 5.9.2025
 to fun

npowkonol HTTP, TCP, IP, UDP

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

Methods	Request		Response	
	Request	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

+0.1 2025.9.18 +0.1 to f. 25.9.24

If local Lady doesn't know:

Main body where the Princess is?

Sorry I don't know (Sun) Local

Please search Princess

The Wind, you can ask him (Moon)

Sorry I don't know (TLD DNS) for me.

Please check the Princess for me.

Guys

Arrange immediately

Please check the Princess for me.

Wind

Is IP address in coffin cavity mountain?

Sun

Your can ask the Moon

Moon

www.google.com
Go to ".com" TLD DNS Server

Root Server

www.google.com
Go to "google.com" Authoritative DNS Server

TLD DNS Server

www.google.com
142.251.46.236

Authoritative DNS Server

Search

google.com

You type "example.com" in to a web browser

1

Do you know "google.com"?

Sorry, I don't know (Local DNS Cache)

2

Please search "google.com"

Root Server

3

Hey guys, help me search "google.com"

Arrange immediately (Recursive DNS server)

4

All the domain under ".com" are stored in the TLD name server. You can ask him

Root Server

5

"google.com" is stored in the Authoritative DNS server, you can ask him

TLD DNS Server

6

If local DNS doesn't know:

7

"google.com"'s IP address is "142.251.46.236" I will remember it for future use

8

Its IP address is "142.251.46.236"

Search

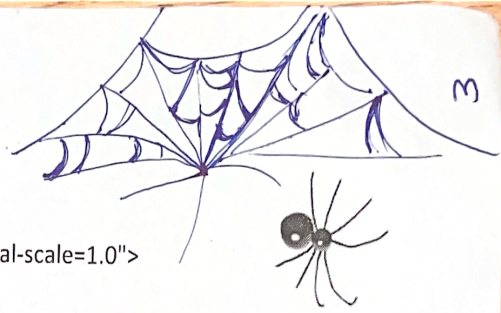
google.com



```

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

```



Web Spider
уверкапырэм савім

```

<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>

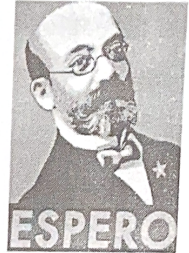
```

```

<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>

```

from yellow to white

```

@media (min-width: 768px) {
  .profile-image {
    width: 200px;
    height: 200px;
  }
  .name {
    font-size: 2.5rem;
  }
}

```

to enlarge photos on large screens from 150 to 200px

The same goes for fonts

Z-index - 1 мухнаса капішніка

Find Error here

```

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> !"
    
```

```

<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>
    
```

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

object object object

Real world objects

June 19 Student
 Emma 45 Doctor
 Ann 30 Engineer

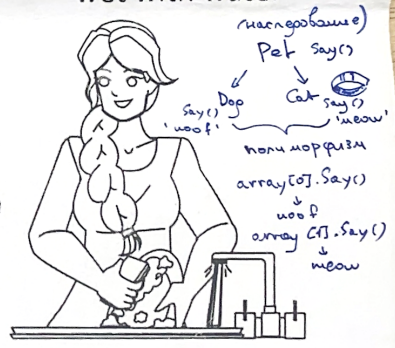
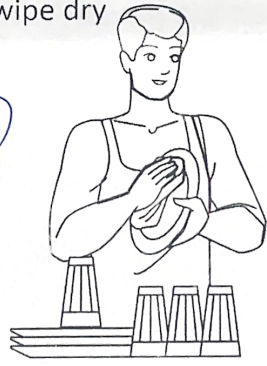
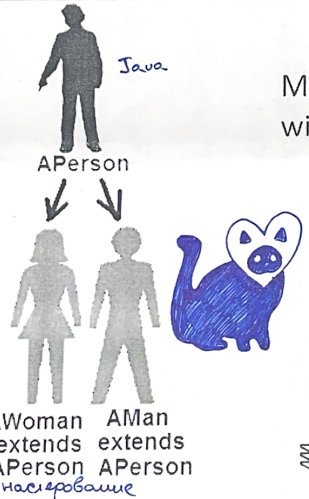
Queen
 Drone
 Worker

Polymorphism in Biology

function WashDishes() *универсальная = обобщенная функция*

Men's version
 wipe dry

Female version
 wet with water



ira= new AWoman()
 ivan= new AMan()

```

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 → extends,
 # → :

ES6:

```
asp.net.by/es6/1.htm_ asp.net.by/es6/02.htm let const
```

Arrow functions:

```
X = (X, Y) => Y + "." + X;
function ABC (x,y)
    x("sbmt.by", "SBMT");
    array function
```

```
function myExam(y = 4) // - default option
    array function
```

```
asp.net.by/es6/05.htm Array.find(myFunction)
fibonacci [1, 1, 2, 3, 5, 8]
index 0 1 2 3 4
var first = fibo.find(myFunction);
function myFunction(value, index, array) {
    return value > 4;
}
```

```
asp.net.by/es6/06.htm Array.findIndex()
```

```
var fibo = [1, 1, 2, 3, 5, 8];
fibo[4] // The first digit > 4 - has index 4
var first = fibo.findIndex(myFunction);
function myFunction(value, index, array) {
    return value > 4;
}
```

```
asp.net.by/es6/07.htm Классы
```

```
class ACat { constructor(n) {
    this.name = n; //property
}}
```

конструктор запускает операцию new

```
mycat = new ACat("Барсик");
```



```
class ACat {
    Name() {
        return 'Меня зовут ' + this.name;
    }
    mycat = new ACat("Барсик");
    document.write(mycat.Name());
}
```



Меня зовут Барсик

```
asp.net.by/es6/08.htm
asp.net.by/es6/09.htm
Array.forEach()
var colors = ["red", "green", "blue"];
index
0 1 2
item
["red", "green", "blue"]
```

```
colors.forEach(myFunction);
function myFunction(item, index) {
    item ... index
}
```

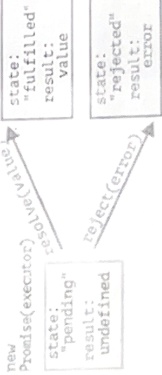
```
Function One () {
    // Do something
}
Function Two (call_One) {
    // Do something else
    call_One();
}
Two(One); // code is being executed
```

<https://asp.net.by/callback/>

передача функции как параметра

Promise illustrated

Promise



<https://asp.net.by/ES6/13.promise.htm>

Jim not eye.
Foto MSCoreEE.dll
Hello.exe - which is not exe
JMP - CoreEXE Main
MSCoreEE.dll
JIT-compiler

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` id 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; })
```

);

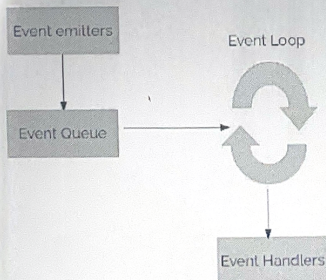
```
<html>
<head>
  <title>Hello</title>
</head>
<script>
  function Hello(){
    document.querySelector("h2").innerHTML="Hello JS!";
  }
</script>
<body>
  <h2></h2>
```

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

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

```
Uncaught 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>
```