

DOMContentLoaded event is fired, the page's DOM is parsed and ready.

```
<head>
<script type="text/javascript"
src="external_js.js"></script>
</head>
```

Bootstrap
Подкачка

```
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" ></script>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/js/bootstrap.bundle
e.min.js"></script>
```

```
<script>
$(document).ready(function () {
$('[data-toggle="tt"]').tooltip();
});
</script>
```

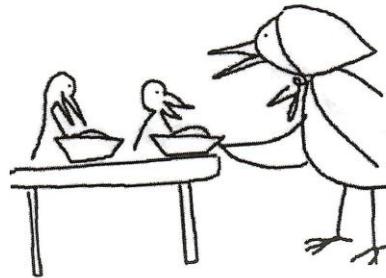
WEB-technologies
introduction

0. W-T Intro 1.

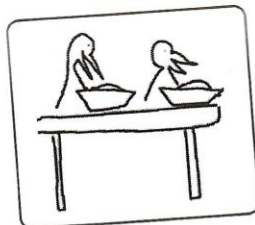
```
<a href="Projects/0/" data-toggle="tt" title="WEB-technologies
introduction">0. W-T Intro</a>
```

```
document.querySelector('#red').onclick =
function() {
document.querySelector('#hello').style.color = 'red';
};
<h1 id="hello">Hello!</h1>
```

Сорока-Белобока кашу варила,
Деток кормила: - Этому дала, - Этому дала,



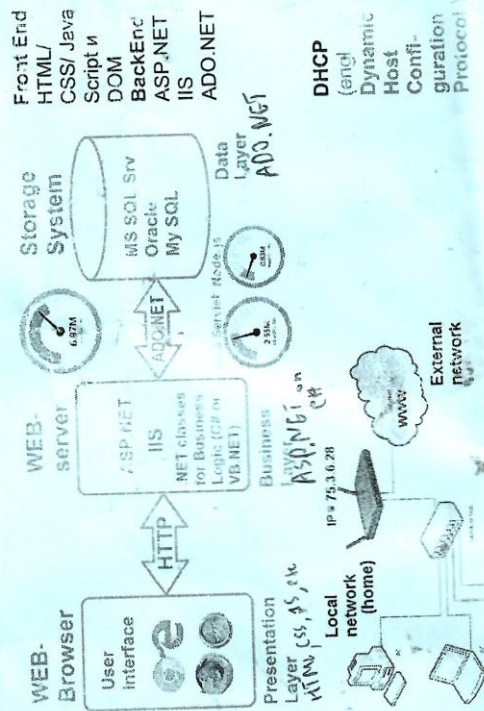
```
[ , ].forEach(☞);
```



```
querySelector() ☞ ☞
querySelectorAll() ☞ [☞, ☞]
```

1984 - Apple Macintosh
- saved people's
private information

29 X.25



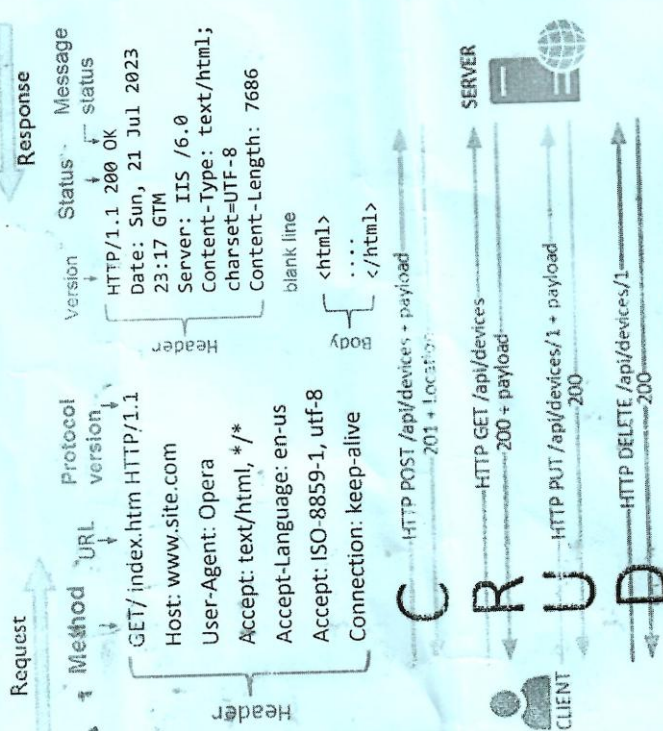
tracert - tracerout (in Apple) www.geotraceroute.com

172 . 16 . 254 . 1
↓ ↓ ↓ ↓
10101100.00010000.11111110.00000001
8 bits 32 bits (4 bytes)
↓ ↓ ↓ ↓
4 billion addresses
- 4 294.967.296
Domain Name
DNS - clearer
address. n

2, n-bits

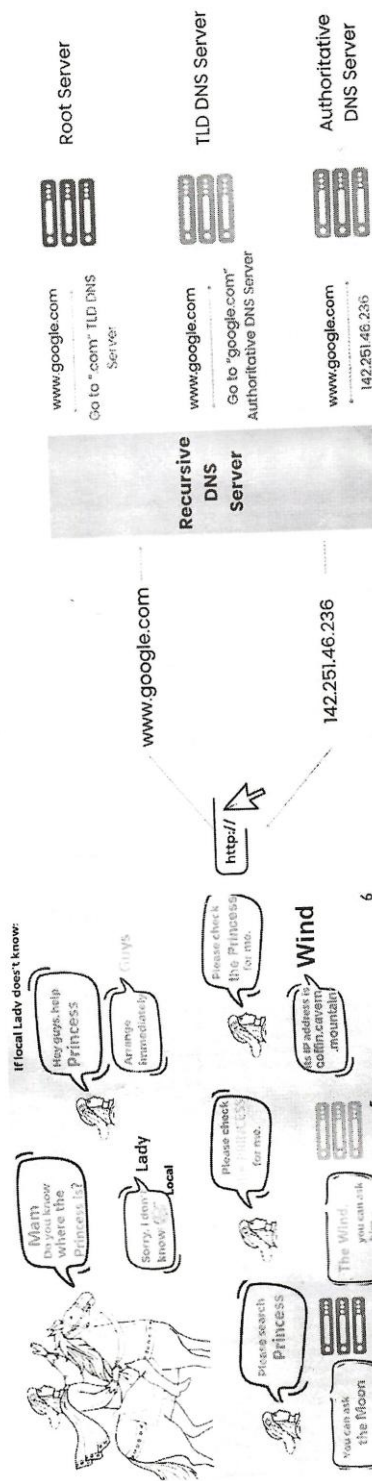
217.21.43.40 - sbmt.by, sbmt.bsu.by sb.bsu.by
ping sb.bsu.by tracert sb.bsu.by <http://s://geotraceroute.com/>

+375 (29) 254 07 92 - ANDREY O. YAROSHEVICH
ip condig



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

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



```

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

```



flexbox

```

<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>

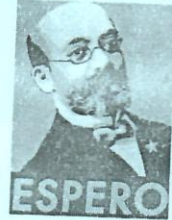
```

```

<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



Project 0

Project 1

Project 2

Project 3

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

<!-- Google Font -->

```

<link href="https://fonts.googleapis.com/css?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;

```

```

    }
  }

```

to enlarge photos on large screens from 150 to 200px

The same goes for fonts

bootstrap

+0.1 2025.09.18

Java

JavaScript (ES6)

```
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

Queen

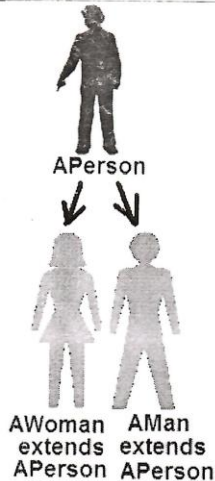
Polymorphism in Biology

Worker

Jane 19 Student

Emma 45 Doctor

Ann 30 Engineer



function WashDishes()

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];
```

ES6:

`asp.net/es6/01.htm` `asp.net/es6/02.htm` **let const**

`asp.net/es6/03.htm` **Arrow functions:**

```
x = (x, y) => y + "." + x;
x("sbmt.by", "SBMT");
```

`asp.net/es6/04.htm`

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

`asp.net/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/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/es6/07.htm` **Классы**

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

```
mycat = new ACat("Барсик");
```

```
class ACat{
```

```
  .....

```

```
  Name(){
    return 'Меня зовут' + this.name;
  }
}
```

```
mycat = new ACat("Барсик");
document.write(mycat.Name());
```

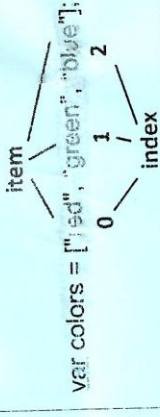
`asp.net/es6/08.htm`

Меня зовут Барсик

`asp.net/es6/09.htm`

Array.forEach()

```
var colors = ["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

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

Promise

new Promise(executor)

state: "pending"

result: undefined

state: "fulfilled"

result: value

state: "rejected"

result: error

<https://asp.net/by/4-S6/13/promise.htm>

Callback illustrated

< managers >	
< manager >	
< firstName >Bill</ firstName >	
< lastName >Gates</ lastName >	
</ manager >	
< manager >	
< firstName >Mike</ firstName >	
< lastName >Dell</ lastName >	
</ manager >	
< manager >	
< firstName >Elon</ firstName >	
< lastName >Musk</ lastName >	
</ manager >	
</ managers >	

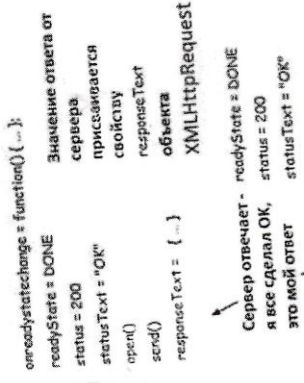
XML=>

<=JSON vs

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

1) JSON.parse(minskJSON);

2) localStorage.setItem() getItem()



7) Работа с массивами myArr[2];

9) obj.birth = new Date(obj.birth);

10) "age":function() {return 48;} " - ф-ция как строка

Yes	8.0	3.5	4.0	10.0
-----	-----	-----	-----	------

11) JSON.stringify() 14) Object => в JavaScript-строку

```
x = myObj["name"] + " " + myObj["Network"];
// x = myObj. name + " " + myObj.Network;
16) 17) 18) myObj.Occupation.pos3 myObj.Occupation["pos3"]
```