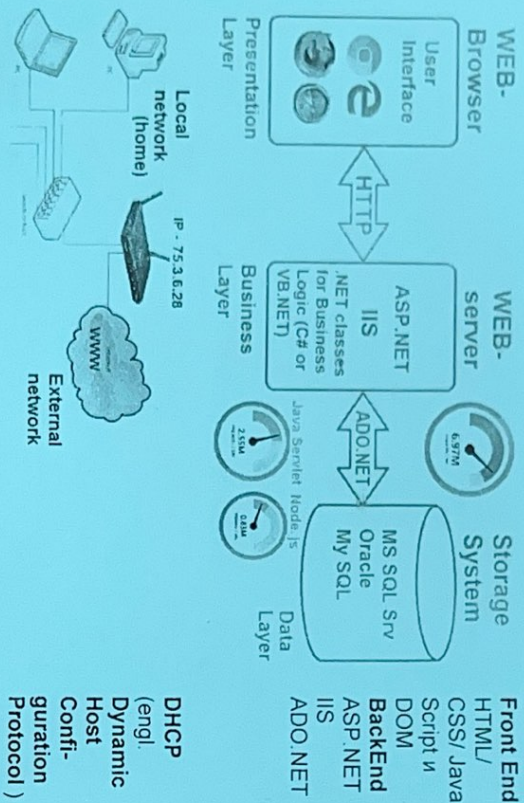


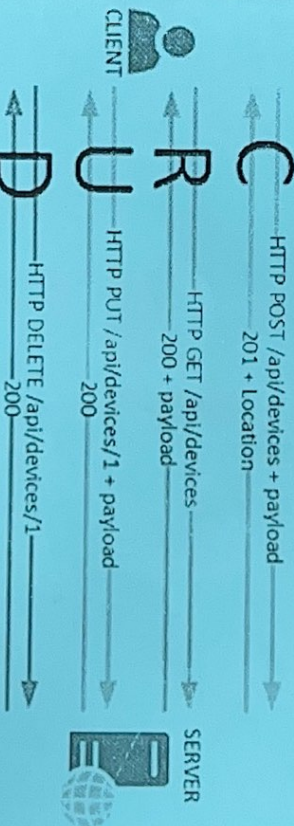
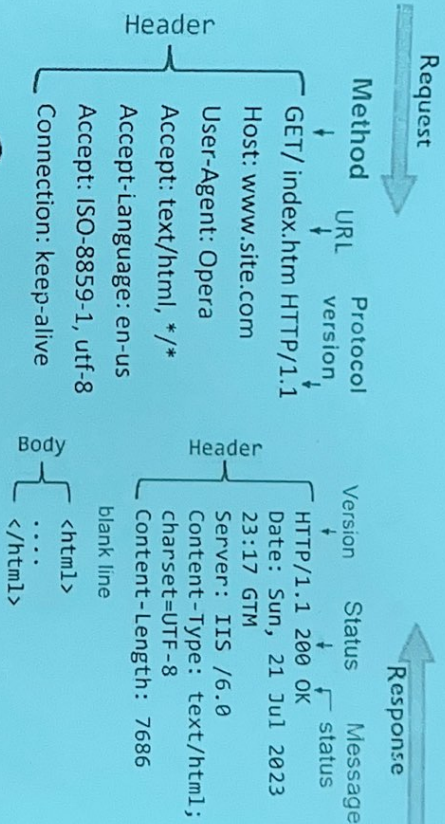


tracert - tracerout (in Apple) www.geotraceroute.com

172 . 16 . 254 . 1
↓ ↓ ↓ ↓
10101100.00010000.11111110.00000001
8 bits 32 bits (4 bytes)
DNS - clearer address.
4 billion addresses
- 4.294.967.296

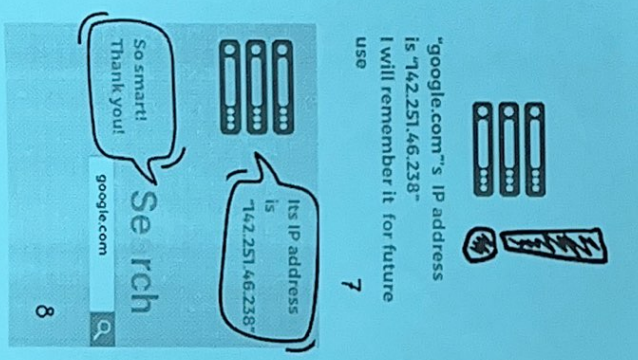
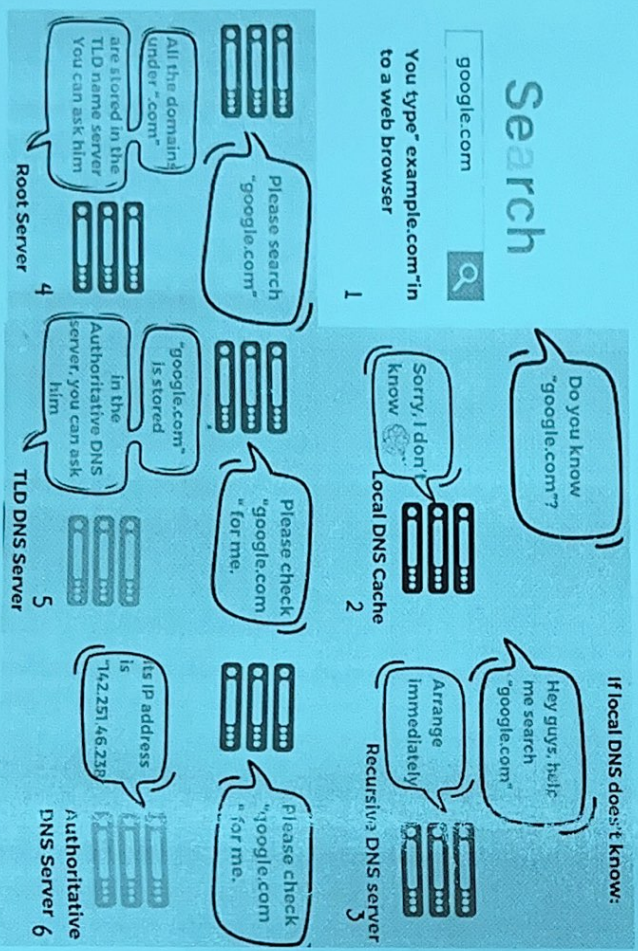
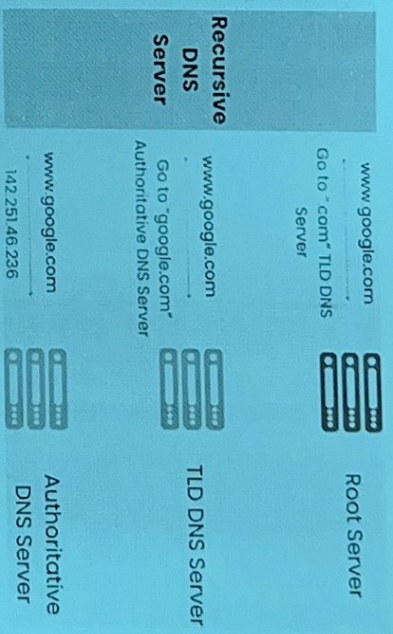
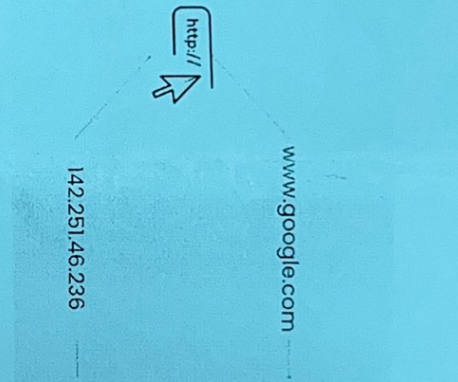
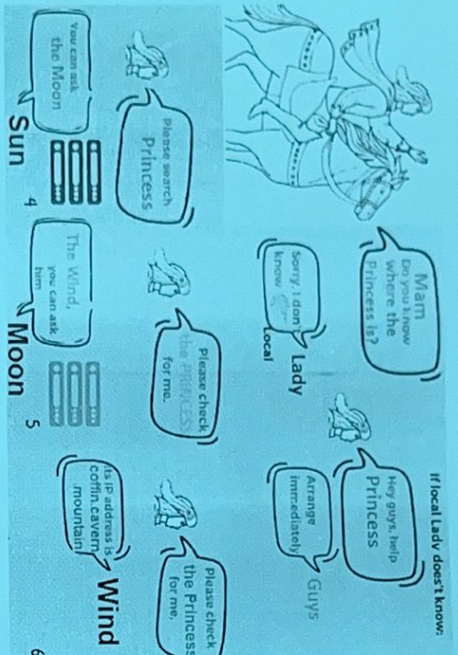
217.21.43.40 - sbmt.by, sbmt.bsu.by
ping sb.bsu.by tracert sb.bsu.by https://geotraceroute.com/
+375 (29) 254 07 92 - ANDREY O. YAROSHEVICH

+1 → 23 = 8
for finance Exam Grade



- 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



3.sln (2) - Microsoft Visual Studio

FILE EDIT VIEW WEBSITE BUILD DEBUG TEAM SQL TOOLS TEST ANALYZE WII

New Open Add

Chrome - Debug Ctrl+Shift+O
Project/Solution... Shift+Alt+O
Web Site...

Union Explorer

Mouse icon

Publish Web Site
Scope to This
New Solution Explorer View

Add Add Reference...

Add New Item... Ctrl+Shift+A
Existing Item... Shift+Alt+A

Default.aspx

asp:Button id="cmbStart" type="button" value="Start"/>

Properties

cmbStart System.Web.UI.WebControls.Button (ID)

OnClick="cmbStart_Click" Text="Start" />

Default.aspx.cs

```
protected void cmbStart_Click(object sender, EventArgs e)
{
}
```

Projects: 0 1 2 3 4 5 6 7 8 9 A

Label Start

Toolbox

Search Toolbox

Standard
Pointer
AdRotator
BulletList
Button
A Label

Default.aspx

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

public partial class _Default : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
    }

    protected void cmbStart_Click(object sender, EventArgs e)
    {
        ViewModel()
    }

    internal string result;

    internal void ViewModel()
    {
        Model();
        View();
    }

    internal void View()
    {
        lblResult.Text = result;
    }

    internal void Model()
    {
        result = "";
        APerson[] family = new APerson[2];
        family[0] = new AMan();
        family[1] = new AWoman();
        for (int i = 0; i < 2; i++)
        {
            result += i + " " + family[i].Name() + "<br>";
        }
    }

    static void ViewModel()
    {
        Model();
        View();
    }

    static void View()
    {
        Console.WriteLine(result);
    }

    static void Model()
    {
        result = "";
        APerson[] family = new APerson[2];
        family[0] = new AMan();
        family[1] = new AWoman();
        for (int i = 0; i < 2; i++)
        {
            result += i + " " + family[i].Name() + "<br>";
        }
    }
}
```

Default.aspx

```
using System;
using System.Linq;
public class HelloWorld
{
    static string result;

    public static void Main(string[] args)
    {
        ViewModel();
    }

    static void ViewModel()
    {
        Model();
        View();
    }

    static void View()
    {
        Console.WriteLine(result);
    }

    static void Model()
    {
        result = "";
        APerson[] family = new APerson[2];
        family[0] = new AMan();
        family[1] = new AWoman();
        for (int i = 0; i < 2; i++)
        {
            result += i + " " + family[i].Name() + "<br>";
        }
    }
}
```

```

class APerson
{
    virtual internal string Wash()
    {
        return "Wet and Dry";
    }
}

class AMan:APerson
{
    override internal string Wash()
    {
        return "Wet";
    }
}

class AWoman:APerson
{
    override internal string Wash()
    {
        return "Dry";
    }
}

```

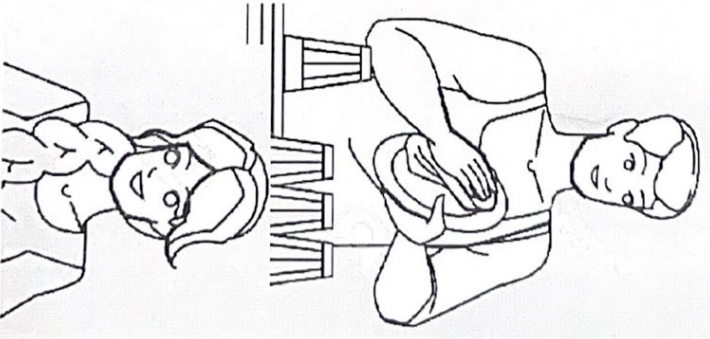
```

class APerson
{
    virtual internal string Wash()
    {
        return "Wet and Dry";
    }
}

class AMan:APerson
{
    override internal string Wash()
    {
        return "Wet";
    }
}

class AWoman:APerson
{
    override internal string Wash()
    {
        return "Dry";
    }
}

```



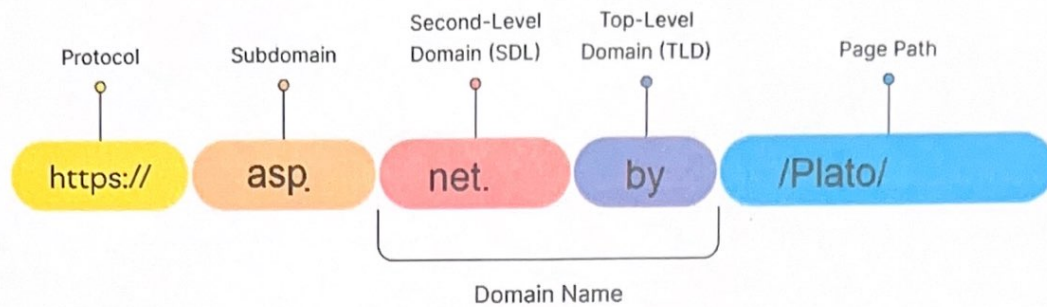
```
class Dog
{
    public string name;
    public string bread;
    public int age;
    public void Bark()
    {
        Console.WriteLine(name + " says Woof woof");
    }
    public void Howl()
    {
        Console.WriteLine(name + " says u-u-u-u-u!");
    }
}

static void Main(string[] args)
{
    Dog dory = new Dog();
    dory.name = "Dory";
    Dog montmorency = new Dog();
    montmorency.name = "Montmorency";

    dory.Bark();
    montmorency.Bark();
    dory.Howl();

    Console.ReadKey();
}
```

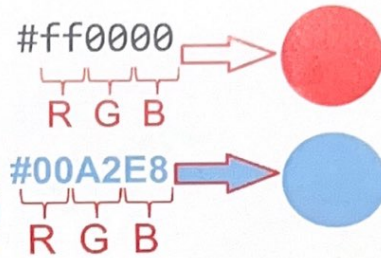
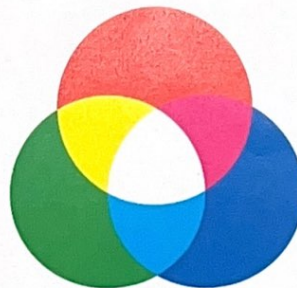
constructor
+0.2



R- Red

G- Green

B – Blue



Intensity

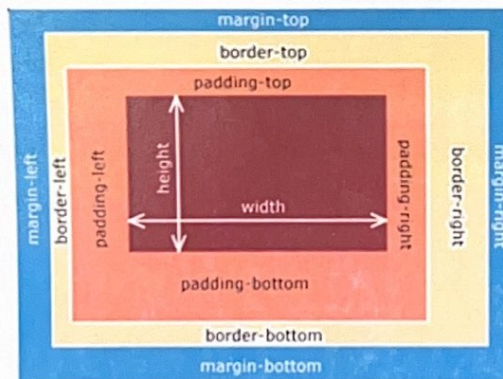
0	1	1	0	1	0	0	1
---	---	---	---	---	---	---	---

8-digit cell

rgb(255,0,0), rgb(0,0,255), rgb(0,162,232), rgb(31,78,121)

rgb(100%,0%,0%), rgb(0%,0%,100%)

Box model



```
<style>
img {
  position: absolute;
  left: 2px;
  top: 10px;
  z-index: -1; // behind the text }
</style>
```

```
<style>
div
{
  color:white;
  background-color:brown;
  height: 250px; width: 100px;
  padding: 20px 11px 10px 15px;
  border: 15px solid yellow;
  margin: 120px 10px 15px 20px;
}
</style>
```

**<div>Box Model
**

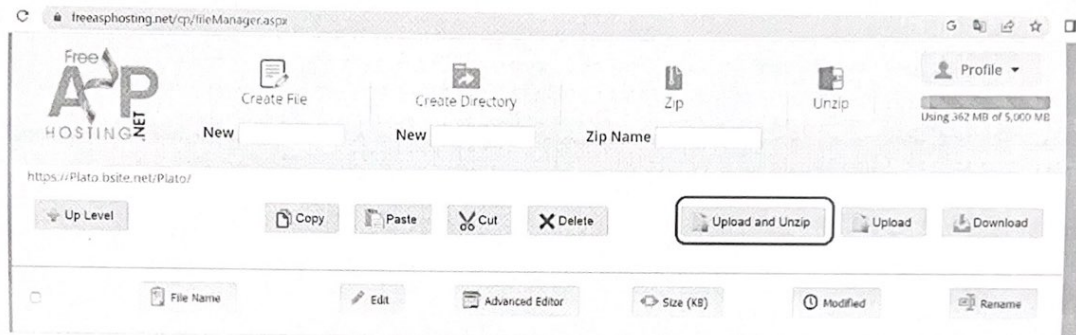




Sir Dr. D. MacKay,
University of Cambridge
(22 April 1967 – 14 April 2016)

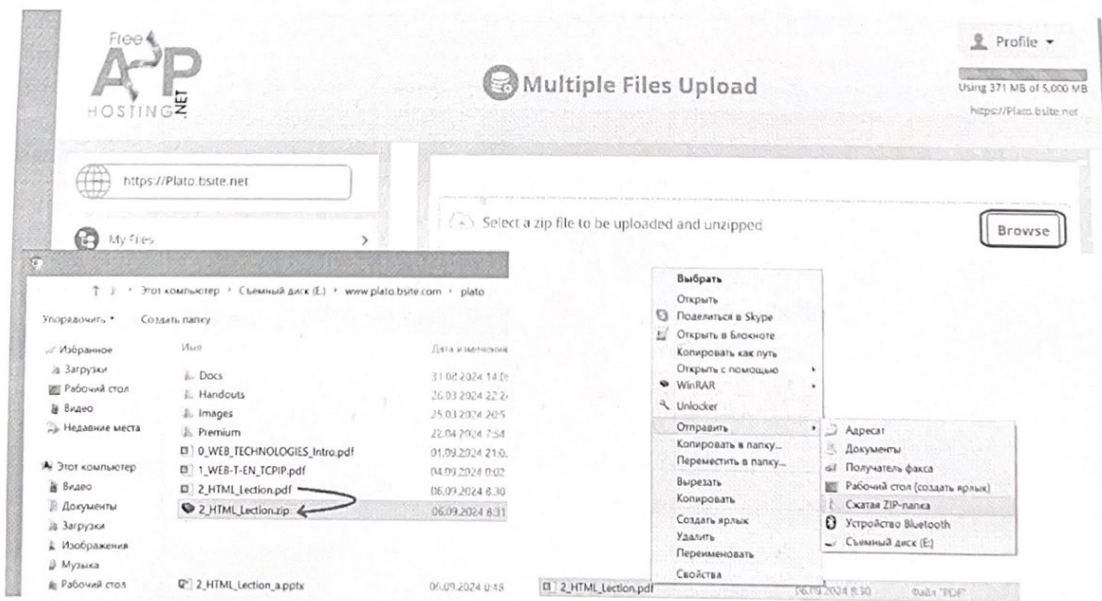
At Cambridge, students
are encouraged to
participate in lectures.

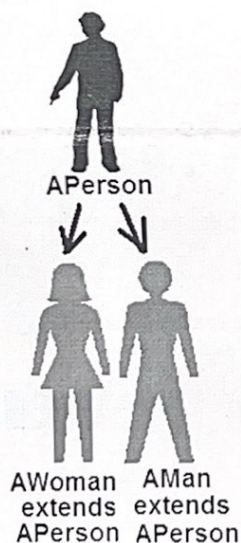
What's good for Cambridge
is good for us.



It's Free hosting. :)

You need to upload not a file, but a file (or files) that are archived with a zip archiver (not rar) - and use the **"Upload and Unzip"** button.
Then it places it where it needs to be.





function **WashDishes()**

Men's version
wipe dry



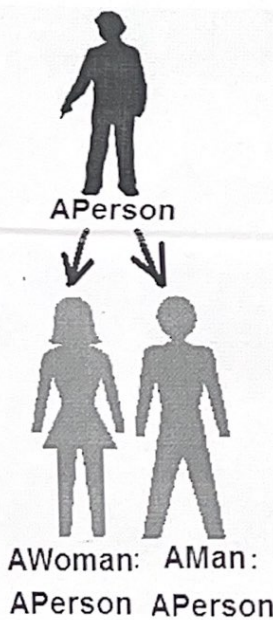
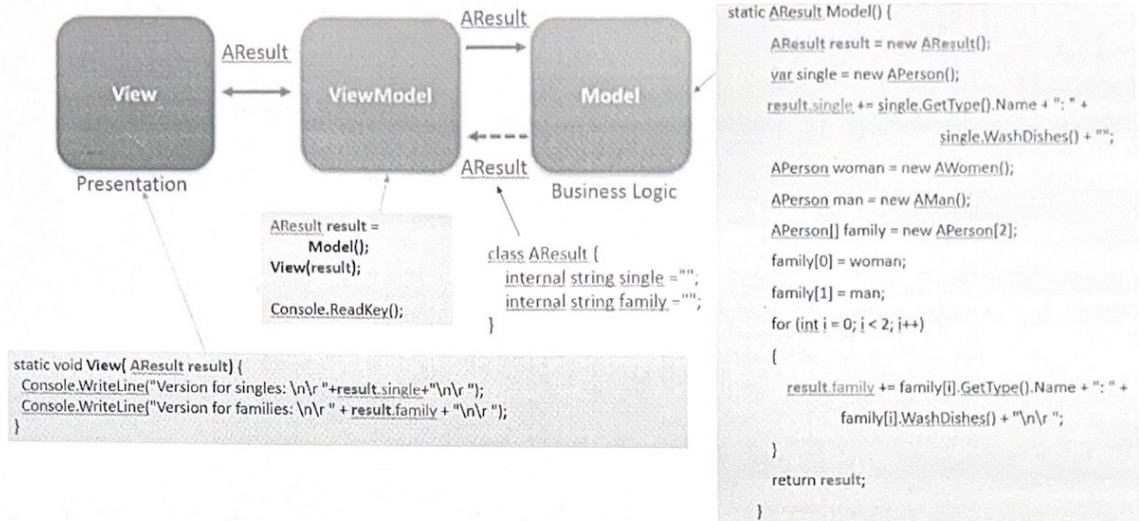
Female version
wet with water



```
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
```



Men's version
wipe dry



Female version
wet with water



```

class APerson {
    virtual public string WashDishes() {
        return "dry and wet";
    }
}

```



```

class AMan: APerson {
    override public
    string WashDishes()
    {
        return "dry";
    }
}

```

```

class AWoman: APerson {
    override public
    string WashDishes()
    {
        return "wet";
    }
}

```

get Element By ID

Static method applies to class ^{program} ~~model~~ rather than an instance of the class

C# - case sensitive

static - all members of the class, abstract

ES6:

asp.net.by/es6/1.htm, asp.net.by/es6/02.htm

```
{  
  let  
  const  
}
```

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

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

asp.net.by/es6/04.htm function `myExam(y = 4)` –

параметр по умолчанию

asp.net.by/es6/05.htm Array **`find`**(`myFunction`)

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

asp.net.by/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.by/es6/08.htm

Меня зовут Барсик

asp.net.by/es6/09.htm

Array **`forEach`**()

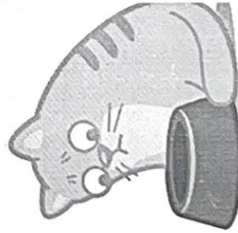
```
var colors = ["red",  
              "green", "blue"];
```



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

```
  item ... index
```

```
}
```



1. if you want you may add Prompts to projects links step.

```
<a href=" " class="btn-----" > Project 1 </a>  
title = "ESG OOP* Bremer"
```

2. Modify Prompt in Bootstrap style
(like on confucius.by)

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

Bootstrap-tool

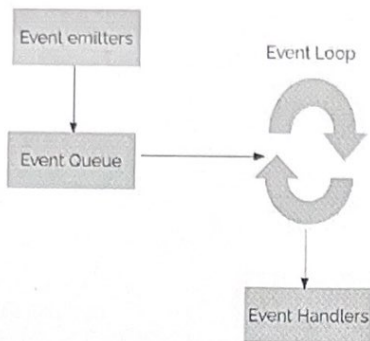
<Body>

```
<a href=" " class="btn-----"  
data-toggle="tt" >  
Project 1  
</a>
```

+0.4 to Final Grade

29.X.24
1000

ES6: event-driven programming



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

+0.4

5.XI.24

.pdf

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");
```

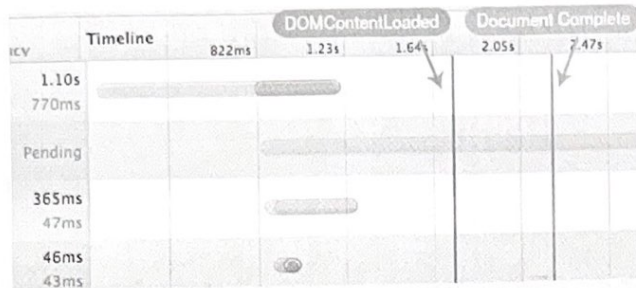
variable definition, we could use let or var instead. But const is preferred

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.

<pre><button id="red">Red</button> <button id="blue">Blue</button> <button id="green">Green</button></pre>	
--	--

```
document.addEventListener('DOMContentLoaded',function(){
  document.querySelector('button').onclick = Hello; }
);
document.querySelector('#red').onclick = function() {
  document.querySelector('#hello').style.color = 'red'; };
```



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

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

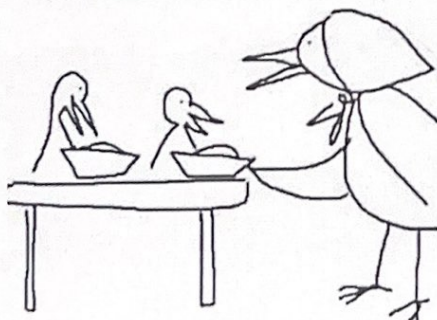
```
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" ></script>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/js/bootstrap.bundle
e.min.js"></script>
<script>
$(document).ready(function () {
$('[data-toggle="tt"]').tooltip();
});
</script>
```

WEB-technologies introduction

0. W-T Intro 1.

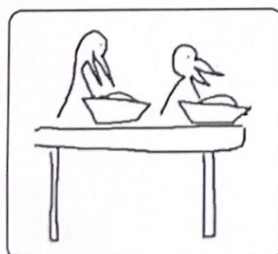
```
<a href="Projects/0/" data-toggle="tt" title="WEB-technologies
introduction">0. W-T Intro</a>
```

```
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() ➡ [ ,  ]
```

Project 8



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



querySelectorAll() → [, ]
NodeList

[, ].forEach();

```
>> document.querySelectorAll('button');
```

```
< ▼ NodeList(3) [ button#red, button#blue, button#green ]
```

```
  ▶ 0: <button id="red">
```

```
  ▶ 1: <button id="blue">
```

```
  ▶ 2: <button id="green">
```

```
    length: 3
```

```
  ▶ <prototype>: NodeListPrototype { item: item(), keys: keys(), values: values(), ... }
```

```
document.querySelectorAll('button').forEach(function(button) {
```

```
  button.onclick = function() {
```

```
    document.querySelector('#hello').style.color =
```

```
    button.dataset.color;
```

```
  };
```

Project 9

```
<script>
```

When the page is done loading

```
document.addEventListener('DOMContentLoaded', function() {
```

I'm going to document.querySelectorAll,
looking for all of the buttons

```
document.querySelectorAll('.color-change').forEach(
```

```
  function(button) {
```

looked for things of the particular class

```
    button.onclick = function() {
```

```
      document.querySelector('#hello').style.color = button.dataset.color;
```

```
    };
```

```
  });
```

```
});
```

```
</script>
```

HTML

```
<button class="color-change" data-color="red">Red</button>
<button class="color-change" data-color="blue">Blue</button>
<button class="color-change" data-color="green">Green</button>
```

```
<button class="color-change"
data-color="red">Red</button>
```

function that takes as input, the button

It's first going to pass in as input the first button

then the second button

then the third button

```
function(button) {
```

```
  button.onclick = function() {
```

```
document.querySelector('#hello').
style.color =
```

```
  button.dataset.color;
```

```
};
```

```
function() {...}
```

```
function(but) {
```

```
  but.onclick =
```

```
  function() {...}
```

```
}
```

```
() => {...}
```

```
but => {
```

```
  but.onclick =
```

```
    () => {...}
```

```
}
```

```
<head>
```

```
<script>
```

```
document.addEventListener('DOMContentLoaded', () => {
```

```
  document.querySelector('#color-change').onchange = function() {
```

```
    document.querySelector('#hello').style.color = this.value;
```

```
  };
```

```
});
```

```
</script>
```

```
</head>
```

```
<body>
```

```
<h1 id="hello">Hello!</h1>
```

```
<select id="color-change">
```

```
<option value="red">Red</option>
```

```
<option value="blue">Blue</option>
```

```
<option value="green">Green</option>
```

```
</select>
```

```
</body>
```

