



RIGACODINGSCHOOL

levads web programmēšanā

1. nodarbība

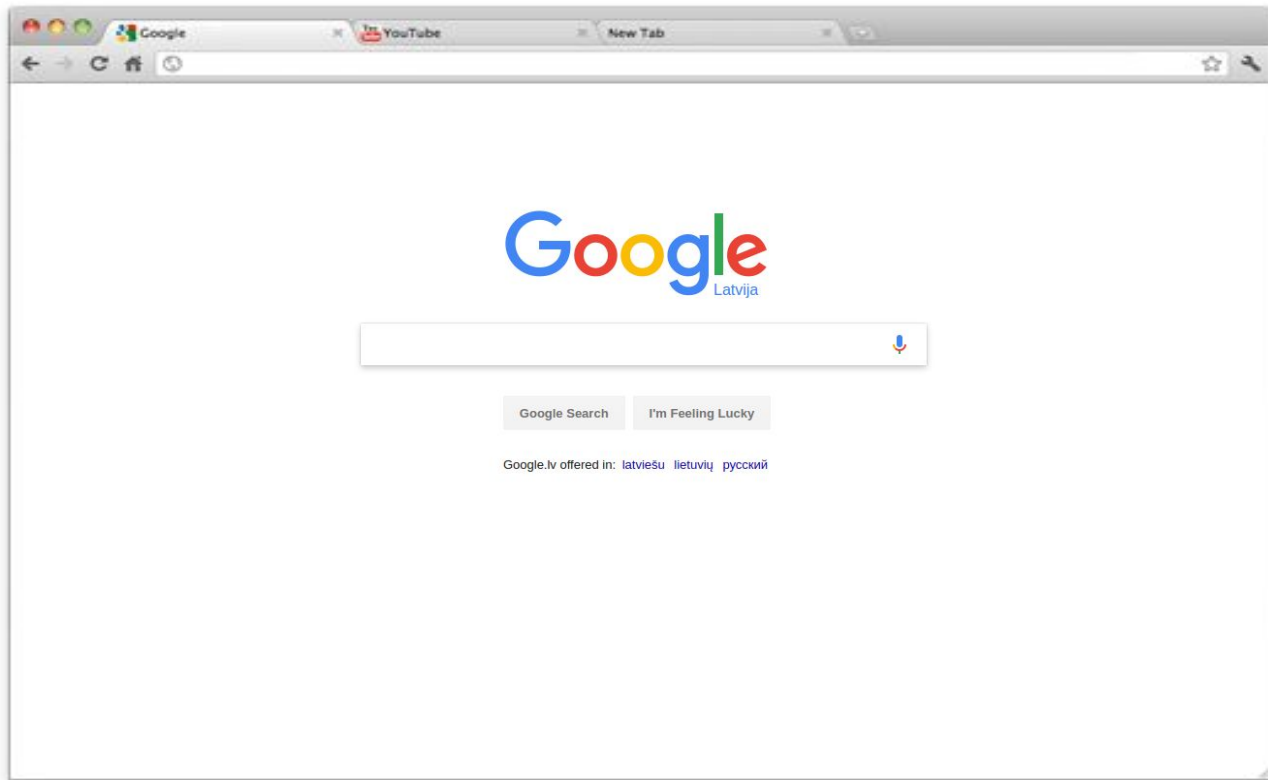
Nodarbības plāns



- Kas ir web programmēšana?
- Pārlūkprogrammas
- GIT
- Ievads HTML

Kas ir web programmēšana?

Mājas lapa...



Mājas lapa...



```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="utf-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
6   <meta name="description" content="">
7   <meta name="author" content="">
8   <link rel="icon" href=".../favicon.ico">
9
10  <title>Jumbotron Template for Bootstrap</title>
11
12  <!-- Bootstrap core CSS -->
13  <link href=".../dist/css/bootstrap.min.css" rel="stylesheet">
14
15  <!-- Custom styles for this template -->
16  <link href="jumbotron.css" rel="stylesheet">
17 </head>
18
19 <body>
20
21  <nav class="navbar navbar-toggleable-md navbar-inverse fixed-top bg-inverse">
22    <button class="navbar-toggler navbar-toggler-right" type="button" data-toggle="collapse" data-target="#navbarsExampleDefault" aria-controls="navbarsExampleDefault" aria-expanded="false" aria-label="Toggle navigation">
23      <span class="navbar-toggler-icon"></span>
24    </button>
25    <a class="navbar-brand" href="#">Navbar</a>
26
27    <div class="collapse navbar-collapse" id="navbarsExampleDefault">
28      <ul class="navbar-nav mr-auto">
29        <li class="nav-item active">
30          <a class="nav-link" href="#">Home <span class="sr-only">(current)</span></a>
31        </li>
32        <li class="nav-item">
33          <a class="nav-link" href="#">Link</a>
34        </li>
35        <li class="nav-item">
36          <a class="nav-link disabled" href="#">Disabled</a>
37        </li>
38        <li class="nav-item dropdown">
39          <a class="nav-link dropdown-toggle" href="http://example.com" id="dropdown01" data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">Dropdown</a>
40          <div class="dropdown-menu" aria-labelledby="dropdown01">
41            <a class="dropdown-item" href="#">Action</a>
42            <a class="dropdown-item" href="#">Another action</a>
43            <a class="dropdown-item" href="#">Something else here</a>
44          </div>
45        </li>
46      </ul>
47      <form class="form-inline my-2 my-lg-0">
48        <input class="form-control mr-sm-2" type="text" placeholder="Search">
49        <button class="btn btn-outline-success my-2 my-sm-0" type="submit">Search</button>
50      </form>
51    </div>
52  </nav>
53
54  <!-- Main jumbotron for a primary marketing message or call to action -->
55  <div class="jumbotron">
56    <div class="container">
57      <h1 class="display-3">Hello, world!</h1>
58      <p>This is a template for a simple marketing or informational website. It includes a large callout called a jumbotron and three supporting pieces of content. Use it as a starting point to create something more unique.</p>
59      <p><a class="btn btn-primary btn-lg" href="#" role="button">Learn more &raquo;</a></p>
60    </div>
61  </div>
62
```

Web izstrādāšana



- Front-end (client side)
 - HTML - pamata izvietojums
 - CSS - vizuālais noformējums
 - Scripts (javascript) - kustīgās daļas

Web izstrādāšana

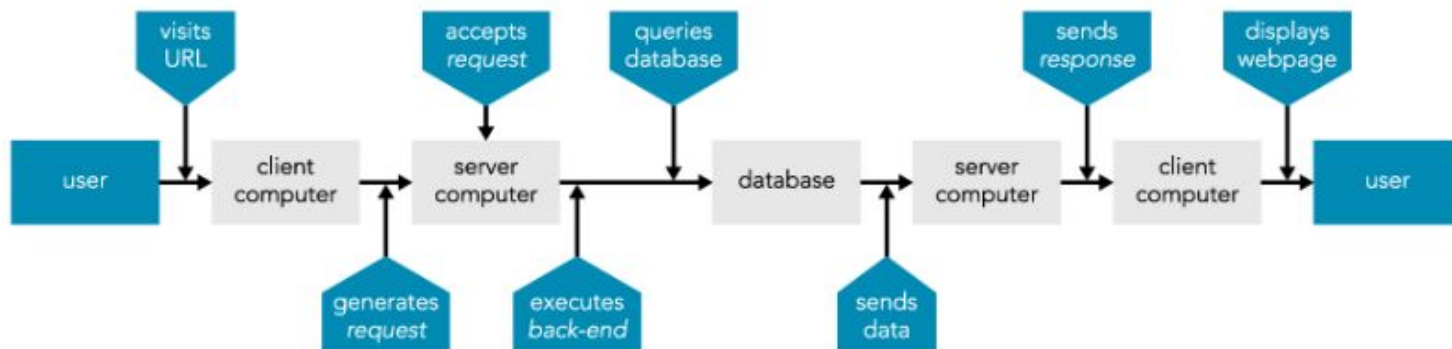


- Back end (server side)
 - Servera puses “dzinējs” (PHP, Ruby, .NET, ...)
 - Datubāzes
 - Cache
 - utt...

Web development stack



Front end un back end kopā



Kam mēs programmēsim lietas?



Kam mēs programmēsim lietas?



How do you tell HTML from HTML5?

- Try it out in Internet Explorer.
- Did it work?
- No?
- It's HTML5.

HTML

Kas tas par zvēru un ko tas ziemā ēd?



- Tika ieviests 80to gadu beigās, 90to sākumā
- HTML - Hyper Text Markup Language
- Apraksta to, kā web lapa tiek būvēta
- HTML elementi ir web lapas pamatsastāvdaļa
- Pārlūkprogrammas tad interpretē šos elementus

Kā rakstīt HTML?



- Jebkurš teksta editors derēs
- Failu paplašinājums ir .html (.htm)

HTML dokument



```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
  </head>
  <body>

    <h1>This is a Heading</h1>
    <p>This is a paragraph.</p>

  </body>
</html>
```

HTML elementi



- HTML elementi - tagi
- `<(tags)>`
- Parasti ir pāros - ir atverošais un aizverošais tags
- Aizverošais tags sākas ar `</` un beidzas ar `>`
- `<(tags)>Satars</(tags)>`
- Var tikt rasktīti viens otrā veidojot HTML elementu “koku”

HTML dokument



```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
  </head>
  <body>

    <h1>This is a Heading</h1>
    <p>This is a paragraph.</p>

  </body>
</html>
```

HTML dokuments



- doctype - pasakta pārlūkam kāda tipa fails šis būs (HTML)
- html - definē html faila robežas
- head - Informācija pārlūkam, lietotājs parasti to neredzēs
- body - Informācija, ko redzēs mājas lapas lietotājs

HTML piemēri - h1, h3, h6



```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
  </head>
  <body>

    <h1>This is a Heading</h1>
    <h3>This is a Heading</h3>
    <h6>This is a Heading</h6>

  </body>
</html>
```

This is a Heading

This is a Heading

This is a Heading

HTML piemēri - p



```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
  </head>
  <body>
```

This is some very nice paragraph

This is another paragraph, not as nice though...

```
    <p>This is some very nice paragraph</p>
    <p>This is another paragraph, not as nice though...</p>
  </body>
</html>
```

HTML piemēri - a



```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    <title>Page Title</title>
```

```
  </head>
```

```
  <body>
```

```
    <a href="amazing.html">Amazing link to amazing page</a>
```

```
  </body>
```

```
</html>
```

[Amazing link to amazing page](#)

HTML atribūti



- Dod papildu informāciju browserim par elementu;
- Var būt jebkuram elementam;
- Tos raksta pie atverošā HTML taga;
- Tie ir atslēgas - vērtības (key-value) pāri (parasti);
- Ir atribūti, kurus var likt visiem elementiem un ir tādi, kas ir domāti kādam specifiskam elementam
- Raksta formātā: atribūts="vērtība"
- Piemērs: `<p class="some-paragraph"></p>`

HTML atribūtu piemēri



- Der jebkuram elementam:
 - id
 - class
 - Style
 - ...
- Der specifiskiem elementiem:
 - src - img, style, script
 - href - a, link
 - cellpadding, cellspacing - table
 - ...

HTML komentāri



- Komentārus raksta `<!-- -->` blokā

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    <title>Page Title</title>
```

```
  </head>
```

```
  <body>
```

```
    <h1>This is a Heading</h1>
```

```
    <p>This is a paragraph.</p>
```

```
      <!-- Write your comments here -->
```

```
  </body>
```

```
</html>
```


HTML - lasāmviela vēliem ziemas vakariem



- <https://www.w3schools.com/tags/default.asp>

- Cheat sheet:

https://hostingfacts.com/wp-content/uploads/2016/06/HTML_CHEAT_SHEET_PNG.png

Let's dive in!