Front-end

Petsenchuk Olena 2015

Front-end



https://www.youtube.com/watch?v=9Nr82jC6WoU

Three layers of web design:

StructureStyleBehaviorHTML markupCSSJavaScript



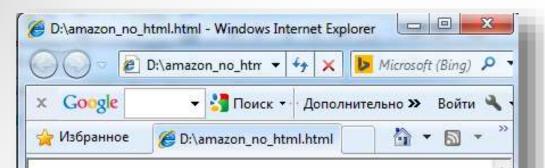
HTML =

Hyper Text Markup Language

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Do you imagine how this page would look like without HTML?





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Looks ugly... Doesn't it?

No HTML?

Without any markup to give your page content structure, the browser renders unformatted and unstyled text



HTML Tags

 - to organize text into paragraphs

- to display table

<form></form> - to define form for user input

First name: Mickey
Last name: Mouse
Submit

January

February \$80

This is a paragraph.

This is a paragraph.

This is a paragraph.

Month Savings

\$100

 - to add image

Lets add HTML tags to our page...

```
<form name="signIn" method="POST" id="ap signin form">
    <div id="ap signin1a pagelet">
        <div id="ap signin1a pagelet title">
           <h1>Sign In </h1>
        </div>
        <div id="ap signin1a email section title">
            <h2>What is your e-mail address?</h2>
        </div>
        <div id="ap signin1a email row">
            <span>
                <label for="ap email">My e-mail address is:</label>
            </span>
            <span>
                <input id="ap email" name="email" size="30" maxlength="128" tabindex="1" type="email">
            </span>
        </div>
        <div id="ap signin1a password section title">
            <h2> Do you have an Amazon.com password? </h2>
        </div>
        <div id="ap signin1a new cust radio row">
            <span id="">
                <input name="create" id="ap signin create radio" value="1" tabindex="6" type="radio">
            </span>
            <span id="">
                <label for="ap signin create radio">No, I am a new customer.</label>
            </span>
        </div>
```

How will it look now?



Sign In

What is your e-mail address?

My e-mail address is:

Do you have an Amazon.com password?

No, I am a new customer.

Yes, I have a password:

Forgot your password?

Sign in using our secure server

Forgot your password?

Has your e-mail address changed since your last order?

Sign In Help

Forgot your password? <u>Get password help</u>. Has your e-mail address changed? <u>Update it here</u>.

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Looks better... But still not good...

HTML

Once page content is marked up with HTML tags, the browser applies default styles to the tags.

So now page is **readable** and have a **clear hierarchy**.

But what should we do to make the page look nice?





Cascading Style Sheet



Set of rules defining how an html element will be "presented" in the browser.

CSS Rules

p { color: red; }

This is a paragraph.

This is a paragraph.

This is a paragraph.

#title {

font-style: italic; border: 1px dotted blue;

.title {

font-weight: bold;
background: yellow;

This is title

This is title with applied style

This is title

This is title with applied style

This is title

This is title with applied style

Some things you can change with CSS

- colors
- font
- font size
- backgrounds

- spacing
- sizes
- borders
- positions (layout)

Some things you can't change with CSS

- content
- markup

So now it's time for styling!!!

Lets add some css rules to our example page.

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How will it look now???



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Looks perfect!

Text + HTML + CSS = Web Page

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Now time for actions!

JavaScript

JavaScript ≠ Java

Java is to JavaScript

... as ham is to hamster

(c) Jeremy Keith, web developer, 2009

JavaScript ≠ Java

- JavaScript was not developed at **Sun Microsystems**, the home of **Java**.
- JavaScript was developed at Netscape in 1995.
- It was originally called **LiveScript**, but that name wasn't confusing enough. ☺
- Java was the buzzword in the days when LiveScript was created, so LiveScript was renamed into JavaScript in the hope of catching the media's interest.

But from confusion came misunderstanding...

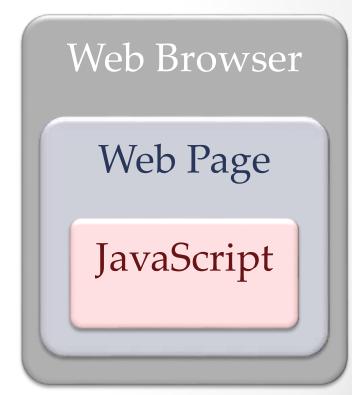
JavaScript ≠ Java



- JavaScript is NOT a Java
- It is NOT a light version of Java
- It was NOT based on Java
- It does NOT matter if you know Java

JavaScript

Classic JavaScript is a client-side language used to add interactivity to your web-pages



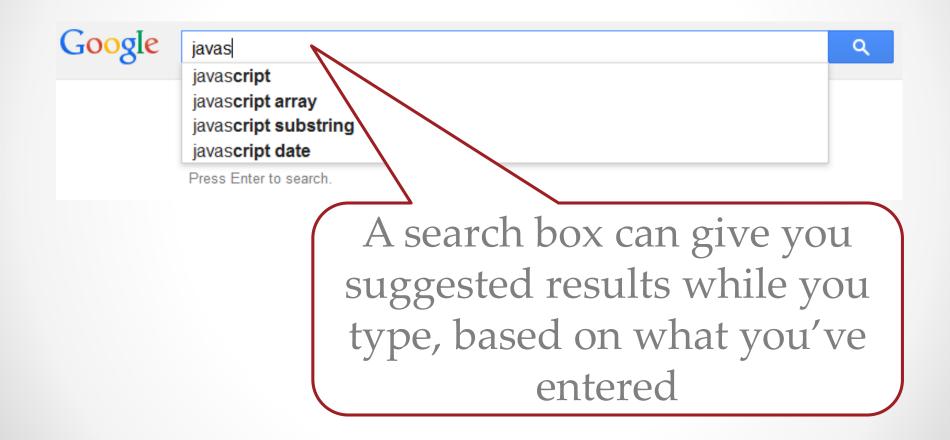
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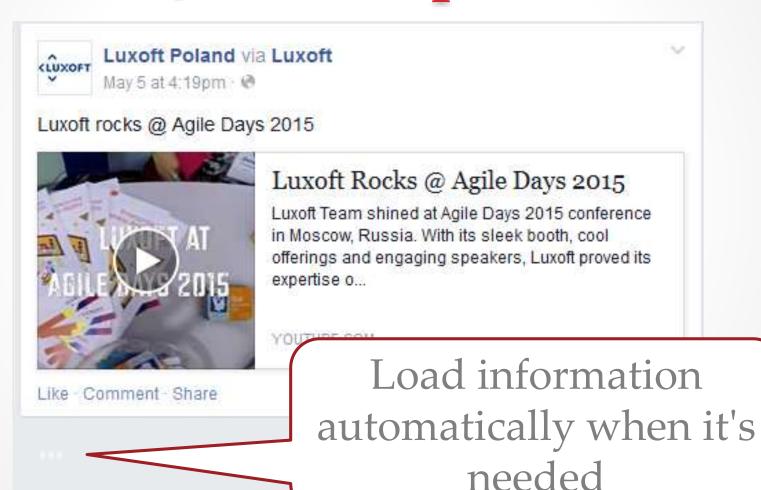
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- Login has already been taken
- Email address doesn't match confirmation

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Retype Password	*****		

Validate values entered in the form fields





Creating and the second second



Create photo slideshow and control how long it takes to move from one image to the next and with what animation effect

And much much more...

JavaScript

At the beginning JavaScript was designed to manipulate web pages.

And it does that very well!

But nowadays its usage is much much wider: you can use it outside of web pages and the browser

