WEB 101

Intro to Web Development & Design

Prof. Craig Protzel Explorable Stories January 2017

What is the WEB?



The World Wide Web (WWW) is an information space where documents and other web resources are identified by Uniform Resource Locators URLs, interlinked by hypertext links, and can be accessed via the Internet.[1]. English scientist Tim Berners-Lee invented the World Wide Web in 1989. He wrote the first web browser computer programme in 1990 while employed at CERN in Switzerland.

The World Wide Web has been central to the development of the Information Age and is the primary tool billions of people use to interact on the Internet.[2][3][4]



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Hyper Text Transfer Protocol

So how does it work?

CLIENT



CLIENT



SERVER



CLIENT





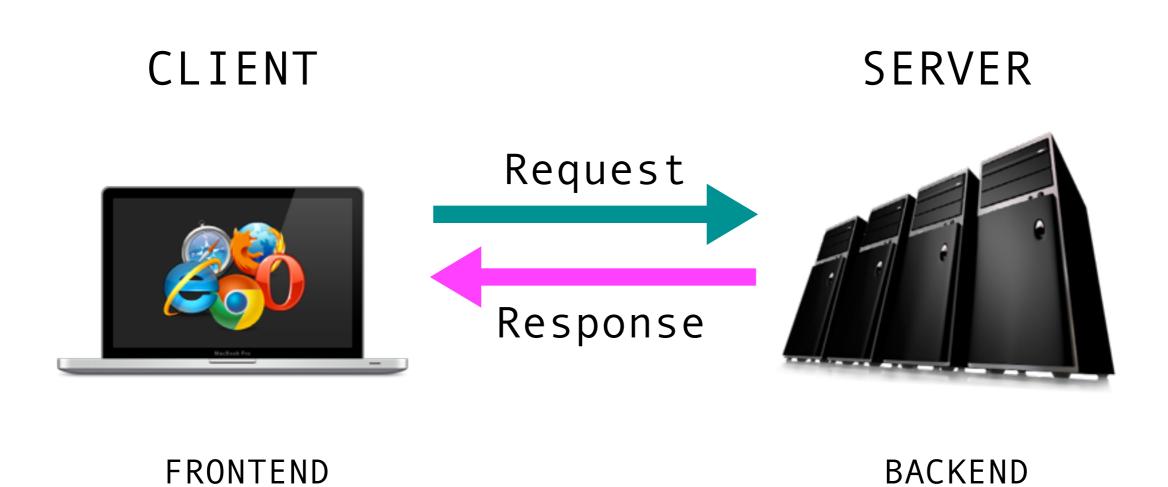


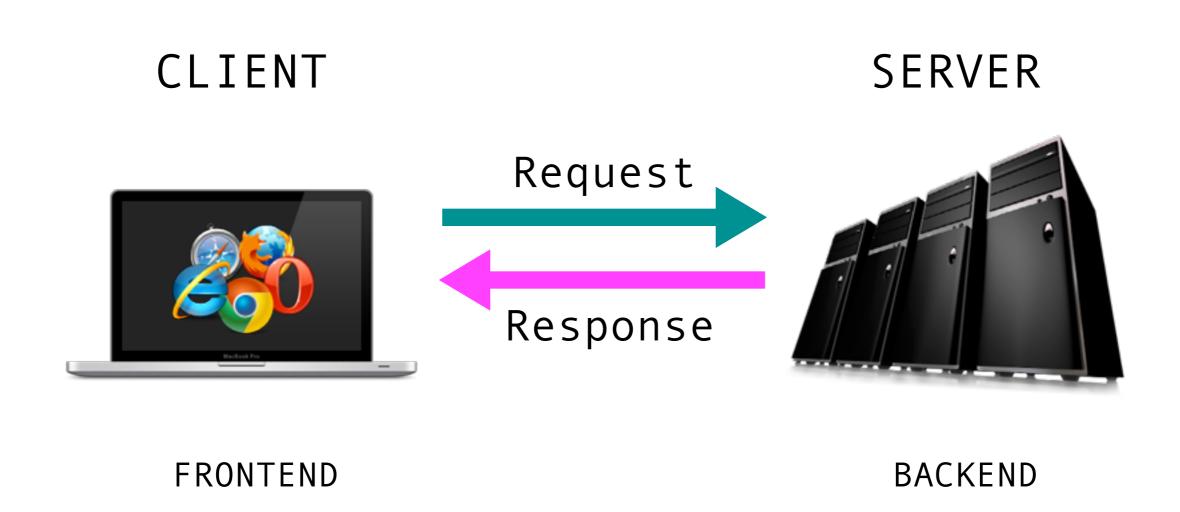
FRONTEND

BACKEND

CLIENT SERVER Request

FRONTEND BACKEND





Hyper Text Transfer Protocol































I want my Gmail







I want my Gmail





Server goes to work code-database-files





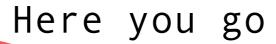
my-gmail.html
my-gmail.css
my-gmail.js

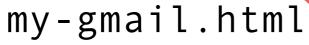
media.jpg
data.json
analytics
ad tracking

Server goes to work code-database-files



I want my Gmail





my-gmail.css

my-gmail.js

media.jpg
data.json

ad tracking

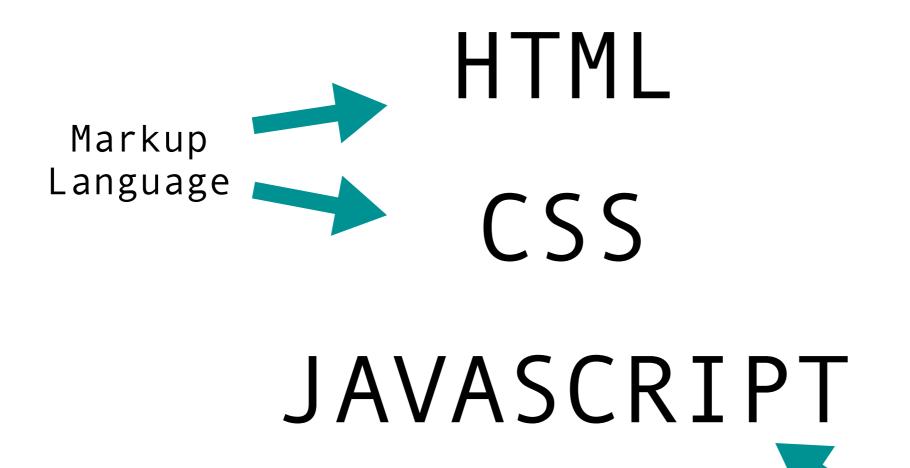




Server goes to work code-database-files

Making A Web Page

HTML CSS JAVASCRIPT



Programming Language

HTML A Markup Language CONTENT
The info on the page

HTML A Markup Language CONTENT
The info on the page

CSS A Markup Language

STYLE How the info looks HTML A Markup Language CONTENT
The info on the page

CSS A Markup Language

STYLE How the info looks

JAVASCRIPT
A Programming Language



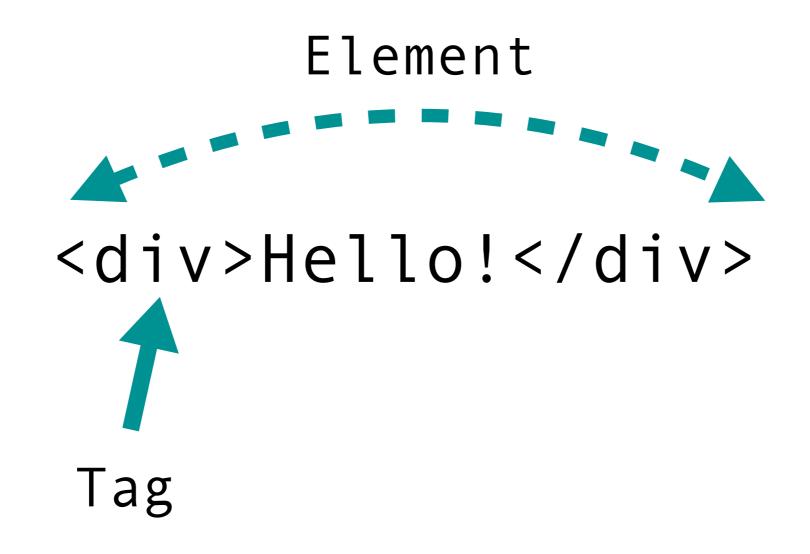
INTERACTIVITY
How the info behaves



<div>Hello!</div>

<div>Hello!</div>

Tag



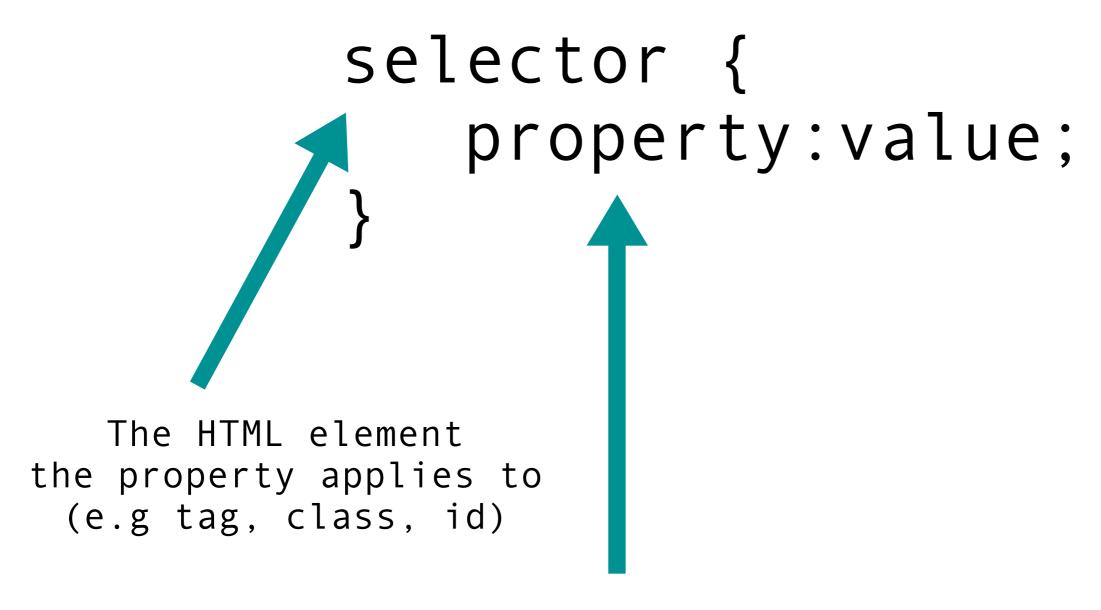
```
<html>
   <head>
    <title>My WebPage</title>
   </head>
   <body>
    <div>Hello!</div>
   </body>
</html>
```

Cascading Style Sheets

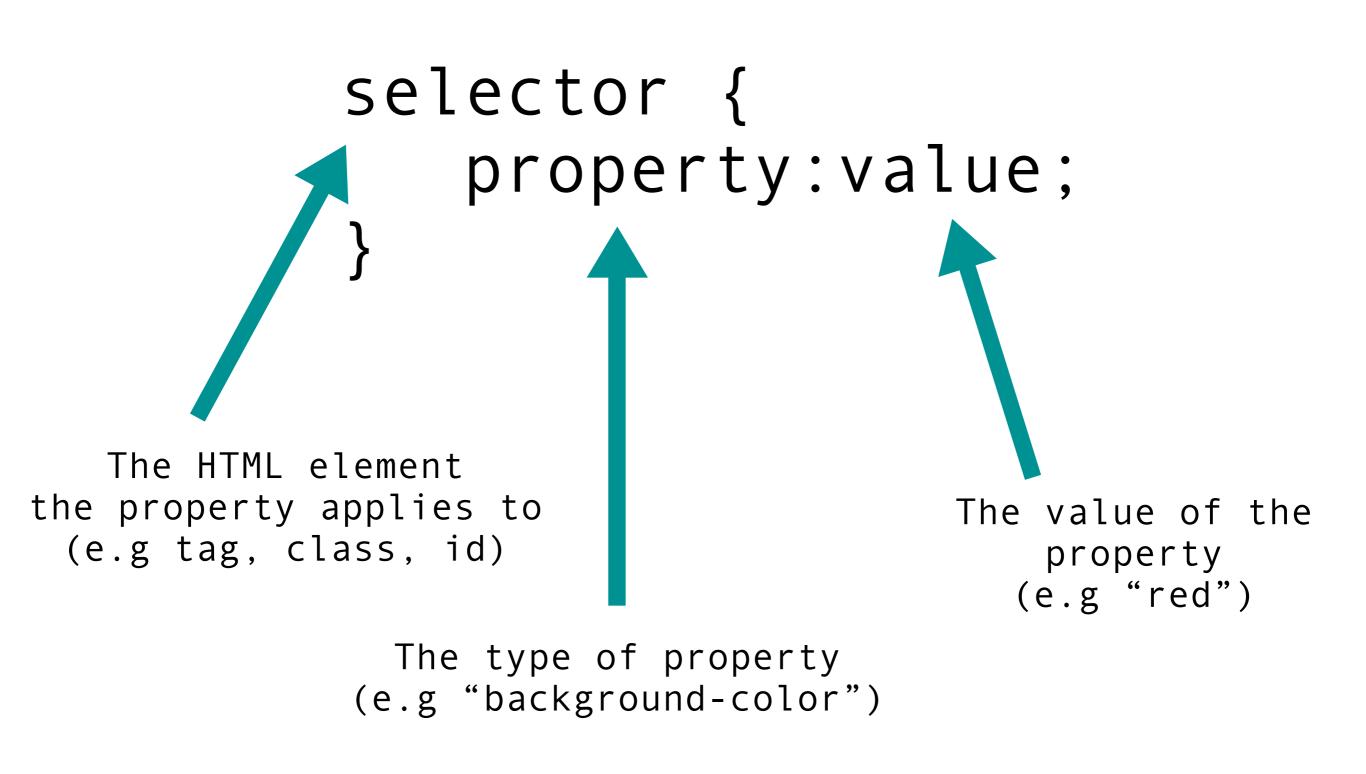
```
selector {
   property:value;
}
```

```
selector {
   property:value;
}
```

The HTML element the property applies to (e.g tag, class, id)



The type of property (e.g "background-color")



```
div {
     background-color: red;
.redBG {
     background-color: rgb(255,0,0);
#redBG {
     background-color: #FF0000;
```

```
*
body,div,
p
#id
.class
```

everything on the page specific elements a unique item on the page a group of items on the page

TEXT EDITOR BROWSER DEVELOPER TOOLS