Introduction to Web development

By: Prakamya Mishra

Git & Github

Overview

➔ Installing git and creating a github account
➔ What is git
➔ How does git work
➔ What is github
➔ Example of using Git and github

Installing git!

➜ Linux (debian):
  ◆ Command : sudo apt-get install git
➜ Linux (Fedora):
  ◆ Command : sudo yum install git
➜ Mac :
  ◆ http://git-scm.com/download/mac
➜ Windows :
  ◆ http://git-scm.com/download/win

What is version control?

➔ A system that keeps record of your changes
➔ Allow for collaborative development
➔ Allow you to know who made what changes and when
➔ Allow you to revert any changes and go back to a previous state.

What is Git?

What is version control?

➔ Distributed version control
➔ User keeps entire code and history on their location machine
   ◆ User can make any changes without internet access
   ◆ Except pushing or pulling changes from a remote server

What is GitHub?

What is **GitHub?**

➔ Largest web-based git repository hosting service
  ◆ Aka hosts remote repositories
➔ Allows code collaboration with anyone online
➔ Adds extra functionalities on top of git
  ◆ UI, Documentation, bug tracking, pull requests and more.

_

Tools Required!

➜ Text Editor
- ◆ Atom (Open Source)
- ◆ Microsoft Visual Studio

➜ Browser
- ◆ Chrome

One of Three Core Languages!

➔ HTML - Controls the structure of your web page

➔ CSS - Controls the presentation/design

➔ JavaScript - Add behaviour and interactivity

HTML

—

What does **HTML stands for?**

Hyper Text **Markup Language**

What We'll **Learn!**

➜ What is HTML
➜ Structure of a HTML Document
➜ Different types of HTML elements (HTML tags)
➜ Adding CSS to a webpage
➜ Adding JavaScript to a webpage

_

HTML **Tags!**

➔   <p> Paragraph text </p>
➔   <a> Link to another page
➔   <h1> Heading </h1>
➔   <blockquote> Quotes </blockquote>
➔   <img>

CSS

What does CSS stands for?

Cascading Style Sheet

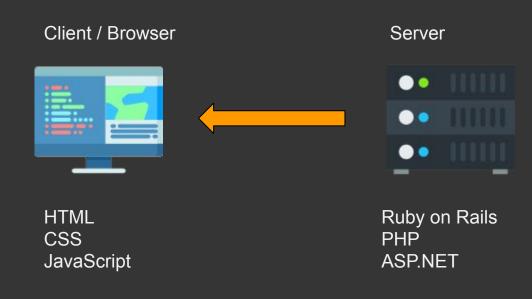# Box Model

JavaScript

What Should **You Know!**

➔ HTML

➔ CSS

What We'll Learn!

➔ What JavaScript is & when we use it
➔ Basic JavaScript syntax
➔ Working with data types (integers, string etc)
➔ Control flow (loop and conditional statements)
➔ The Document Object Model (DOM)

—

JavaScript is a **Scripting Language!**

➔ Intentionally limited

➔ Doesn't have the same features as other programming

languages (C++, Java)

➔ Cannot communicate directly with a database, or file

system on a computer

➔ However it is great at manipulating web pages

And **Finally...**

➔ JavaScript is NOT, and has nothing to do with JAVA

➔ JavaScript is just a name that was given to it while JAVA was really popular

➔ The official name for Javascript is ECMAScript

—

Connect

➔ https://gitter.im/SNU-ACM/community

➔ https://github.com/prakamya-mishra