WEB DEVELOPMENT

in practice

TOPICS

- Overview
- In Practice
- What's next?

Overview

What is Web Development?

What is Web?

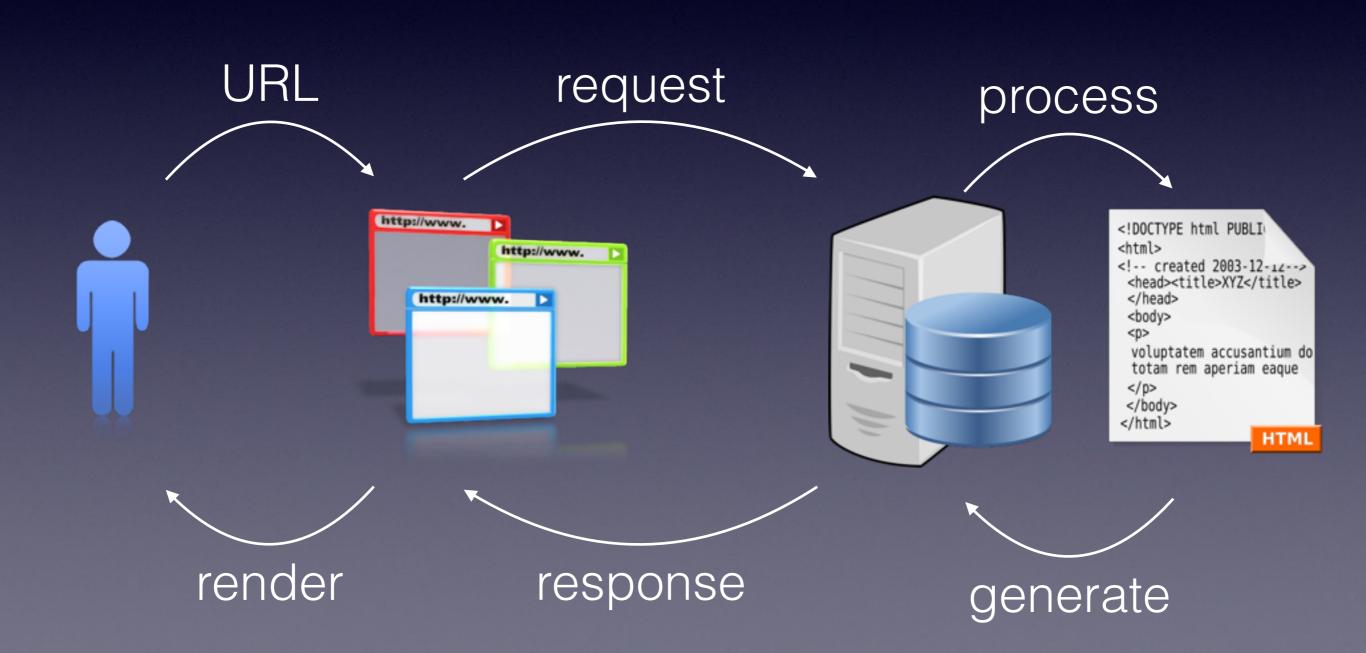
- Web, World Wide Web (www): Inter-connected sites (hypertext documents). vs the Internet.
- Internet Key Layers



(http://goo.gl/Mxb6Nr)

- Components: Browser, Request, Web Server, Response, HTML
- Web Browser: retrieve resources, presenting resources/info/data (display, render), traversing other info (navigation, follow links)

What is Web?



What is Development?

- Software development: writing program/code
- Program/Code:
 - Instructions in a foreign language
 - syntax, data structure, business logic, algorithm
- I/O:
 - Inputs: API, DB, Library
 - Outputs: DB, File, returns
- Software Development:
 - Write instructions using the syntax of a programming language
 - Write business logics/rules using the grammar of a foreign language

What is Web Development?

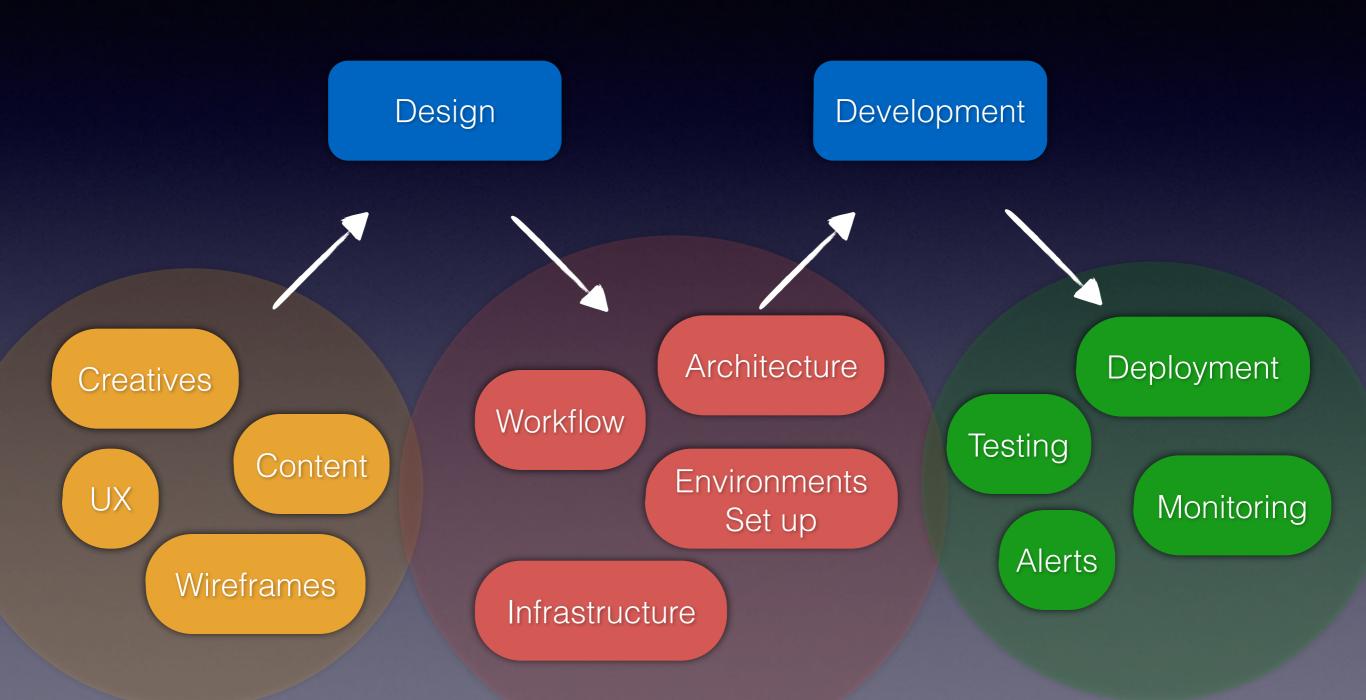
- HTML (HyperText Markup Language):
 - describes the structure (layout) and the semantic (meaning) of the content in a web document
 - Markup (Meta) language vs Programming language
- CSS (Cascading Style Sheets):
 - describes the style (look and formatting) of the content in a web document
 - Style Sheet (Meta) language vs Programming language
- Javascript (JS)
 - facilitates the interactions of the users (on the web browser) with the data/content in the web document
 - Programming language with statements
- Backend Programming languages (PHP, Python, Ruby, Java, .NET, etc.)
 - handles dynamic content and any back and forth needed between the web browser and the server/DB
 - Programming languages with statements

So, what is Web Development?

In Practice

The "true" Web Development day-to-day

Process



Web Development Roles

Frontend

- Layout (HTML, CSS)
- Mobile-friendly / Responsive Layout (HTML, CSS)
- Effects / Animations (CSS, JS)
- APIs Integration (JS, XML, JSON)

Backend

- Model-View-Controller (MVC model):
 - Model: DB, object interactions
 - View: layout, HTML-construction
 - Controller: logic, functionals
- Types:
 - Logics & Functionals & HTMLconstruction (typical)
 - CMS, Admin Panel
 - APIs

Who else involve?

• Creatives: Art Designer

• Wireframes: UX Designer

• **UX**: UX Designer

• Content: Writer

 Design: Art Designer, Designer, Production Artist

 Workflow: Project Manager, Technical Lead

• Management: Product Owner, Project Manager, Client

• Infrastructure: DevOp, SysAdmin

• Environments Setup: DevOp, Developer

• Architecture: Architect, Technical Lead

• Development: ...

 Testing: Developer, Project Manager, Tester

• **Deployment**: DevOp, Developer

• Monitoring/Alerts: DevOp, SysAdmin, Developer

How is it like?

What working for a development firm looks like?

How is it like?

- Best Practices (conventions, processes, etc.)
- Collaborations & Team work
- Communications: Noise vs Signal
- Time-management & Self-management
- Deadlines & Pressures & Stress

What do employers look for?

- Skills & knowledge
- The ability to learn and to grow
- Attitude (proactive, take initiatives, can-do)

What's next?

What to expect in the near future for Web Development?

Current Issues and What's ahead

- Cross platforms/browsers
- Mobile friendly version (dynamic layout)
- High level of effects/animations compared to native desktop applications
- Frameworks: Sass/Less, Bootstrap, Angular.js, Node.js, etc.

work vs life ...

make sure you enjoy your work.