Client Side Development }

Javascript Intro

JavaScript Intro

- Web Technologies
- JavaScript
- Browsers
- Development

Web Technologies

Two Major Web Technologies

- Client Side
- Server Side

What is the difference between Client Side and Server Side Scripting?

Client Side calculates on the local machine

Server Side calculates on a web server

Why does this matter?

It can effect the speed of the user experience.

Web Technologies

Identify Server Technologies and Client Technologies

Web Technologies

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- HTML / XHTML

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- Flash

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- AJAX
- .NET
- Flash
- ActionScript

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- Perl
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- Flash
- ActionScript
- XLST

We will focus on…

We will focus on…

- (X)HTML, CSS, and JavaScript

JavaScript

Client Side Scripting

What is JavaScript?

What is JavaScript?

It governs everything the browser can do from software functionality to display.

How does it differ from (X)HTML and CSS?

How does it differ from (X)HTML and CSS?

(x)html and CSS only affect the display. The formatting of content.

JavaScript

Think of it as a plug-in language for the software (aka browser).

How does JavaScript work?

Drawn Demo

Examples of JavaScript Use

Examples of JavaScript Use

Scriptaculous

Examples of JavaScript Use

- Scriptaculous
- Form validation

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- Scriptaculous
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- Dynamic menus

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- Animations

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- Interactivity

Examples of JavaScript Use

- Scriptaculous
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- Dynamic menus
- Animations
- Interactivity
- Data Formating

Warning: JavaScript, (X)HTML, and CSS perform differently in every browser

Some people turn JavaScript off

Our job is to make content as accessible as possible

JavaScript is used to enhance and supplement not as a primary delivery method

Browsers

Name Some Browsers

Browsers

Browsers

- Internet Explorer (IE)

Browsers

- Internet Explorer (IE)
- Firefox (Mozilla)

Browsers

- Internet Explorer (IE)
- Firefox (Mozilla)
- Safari (WebKit)

Browsers

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Browsers

- Internet Explorer (IE)
- Firefox (Mozilla)
- Safari (WebKit)
- Camino (Mozilla)
- Opera (Opera)
- Flock (Mozilla)

What is the best browser?

What is the best browser?

There is no clear cut answer

As developers we are at the mercy of our end users technologies

Remember

Each browser interrupts CSS and JavaScript a little different

However there is DOM is a Web Standard

http://www.w3.org/DOM/

How do you know what technologies are compatible?

- W3C

- W3Schools.com

- Trusted Developers

Development

Where is JavaScript Developed?

Where is JavaScript Developed?

An IDE

What is an IDE?

What is an IDE?

Integrated Development Environment

List of IDE's

List of IDE's

Dreamweaver

List of IDE's

- Dreamweaver
- Notepad

List of IDE's

- Dreamweaver
- Notepad
- Aptana

List of IDE's

- Dreamweaver
- Notepad
- Aptana
- TextMate

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- Coda
- Notepad++

How Do You Write JavaScript?

- Internally with a Script tag
- Externally with a .js file

JavaScript - Examples

```
<script type="text/javascript">
 alert("hello world");
</script>
```

```
<script type="text/javascript"
src="myScript.js"></script>
```

Where does the script tag go?

Recently there has been some debate about the placement. Technically it can go anywhere, but typically it goes in the head tag.

It's recommended to use an external .js file

- It's executed first
- Cleaner approach
- Easy maintenance when linked to multiple files
- JavaScript will be cached by browsers
- Easier debugging, the error console will tell you which file contains the error

Summary: JavaScript Intro

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