

# Client Side Development }

*Javascript Intro*

# JavaScript Intro

- { Web Technologies
- { JavaScript
- { Browsers
- { Development

# Web Technologies



*Client Side Scripting*

# 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

—{ HTML / XHTML

—{ JavaScript

—{ XML

—{ PHP

—{ MySQL

—{ ASP

—{ CSS

—{ JSP

—{ Perl

—{ AJAX

—{ .NET

—{ Flash

—{ ActionScript

—{ XLST

# We will focus on...

— { (X)HTML, CSS, and JavaScript



# JavaScript

*Client Side Scripting*

# JavaScript

A language that can alter the structure of a page; including addition, deletion, or modification to the structure. Most commonly based off of user input.

# HTML

HTML is the structure of the page.

# CSS

Controls the display of the structure

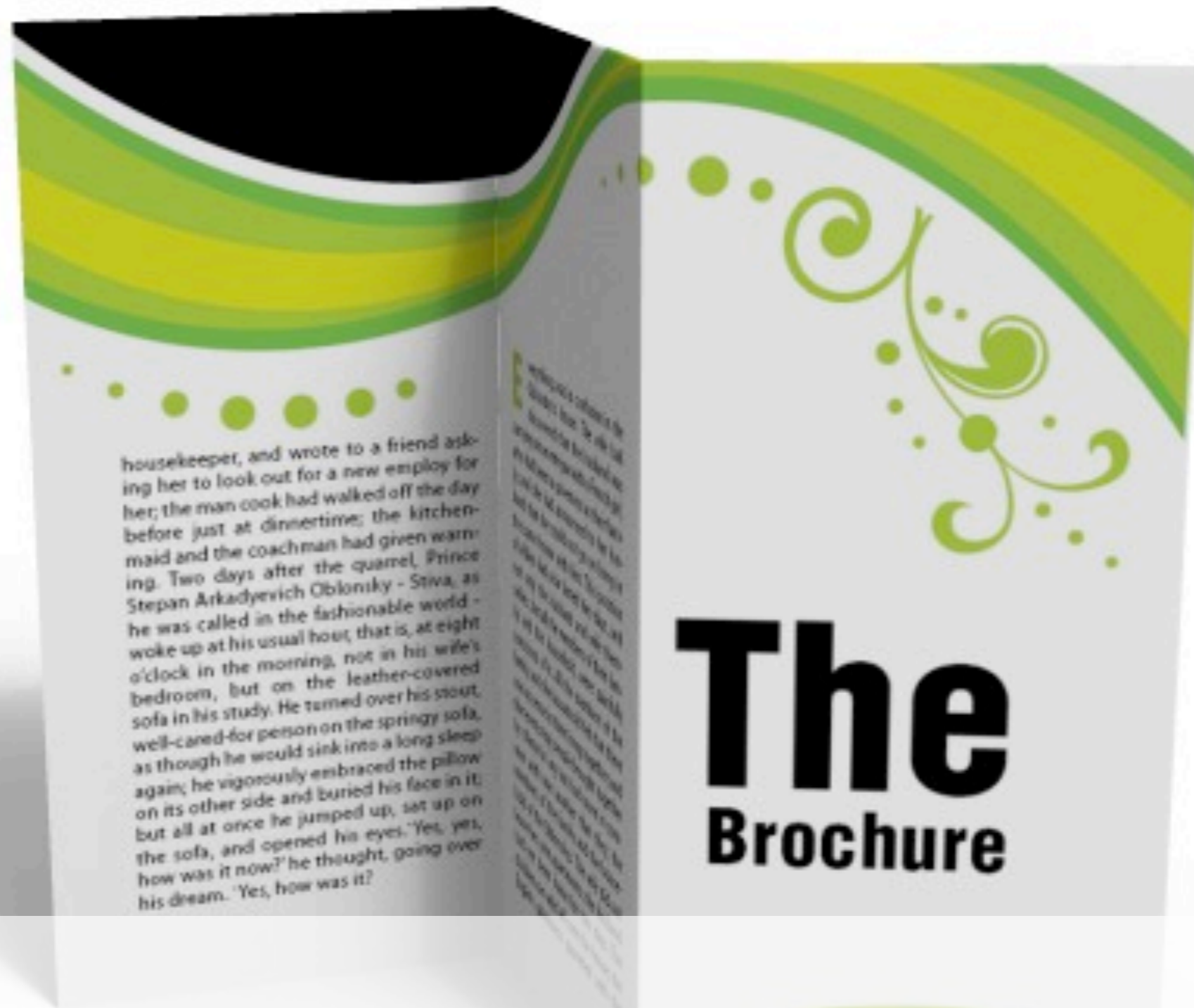
# JavaScript

Can communication and alter both  
HTML (structure) and CSS (display).



# How does JavaScript work?

*Client Side Scripting*



HTML is like a brochure (static)



JavaScript can modify the content

# Examples of JavaScript Use

- { Form validation
- { Dynamic menus
- { Dynamic content
- { Animations
- { Interactivity
- { Data Formatting

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

Some people / devices even  
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

Double check your content  
by turning JavaScript off.  
Can your use still access  
all of the data?

# Browsers



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# Name Some Browsers

# Browsers

- { Internet Explorer (IE)
- { Firefox (Mozilla)
- { Safari (WebKit)
- { Chrome (Google)
- { Opera (Opera)

# What is the best browser?

There is no clear cut answer



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

<http://ie6countdown.com/>

# *Remember*

Each browser interrupts CSS  
and JavaScript differently.

However there is a DOM  
and it is a Web Standard

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

# DOM

Document Object Model. A standard method of communicating with the structure (HTML).

# How do you know what technologies are compatible?

- W3C
- Trusted Developers

# Development



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# Where is JavaScript Developed?

An IDE

# What is an IDE?

Integrated Development Environment

# List of IDE's

- { Dreamweaver
- { Notepad 2
- { Aptana
- { TextMate
- { 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>
```

# JavaScript - Examples

```
// This doesn't work  
<script type="text/javascript"  
src="myScript.js">  
  
alert('hello world')  
  
</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

- { Web Technologies
- { JavaScript
- { Browsers
- { Development