

Announcements

- **Project #2 has been posted**
- **Term Paper assignment has been posted**

Review – Identifiers and Classes

Let's look at a solution to the in-class exercise from last time...
(Next slide please...)

BIKE RACING

Introduction

Bike racing is not for everyone. If you're going to try it, you'd better have off-the-charts aerobic capacity, fantastic agility, and nerves of steel. You also need to have some cash!

Fun Facts

- Bicycles were invented around 1860.
- The world's first bike race was in 1868.
- A strong cyclist can burn about 1400 calories per hour.

Interesting Data

Tour de France

Year	Winner
2011	Cadel Evans
2010	Andy Schleck
2009	Alberto Contador
2008	Carlos Sastre

JavaScript Overview

- **HTML/CSS is not really “programming”**
- **JavaScript is a “scripting” (lightweight programming) language.**
- **JavaScript programs can be embedded into web pages**
- **Web pages become “dynamic” (interactive)**
 - Perform calculations
 - Respond to user’s actions
 - Modify behavior based on circumstances
 - Repeat tasks/outputs
 - Communicate with server
- **JavaScript is not Java**

Where does JavaScript Code Go?

Ways to include JavaScript in your webpage:

1. As an attribute to a particular element:

```
<p onClick="...">Click this paragraph!</p>
```

2. On its own:

```
<script>  
...  
</script>
```

3. In a separate file (ending with .js)

```
<script src="myJavaScriptFile.js"></script>
```

Who Does What?

Browser includes:

- **HTML parser**
Reads HTML and renders it
- **JavaScript interpreter**
Executes JavaScript statements one-by-one

They Take Turns!

Statements

- A Javascript program is a series of statements
- Statements are individual instructions
- Statements are executed one-by one from the top down

Punctuation, Etc.

We recommend:

- **End each statement with a semi-colon**
 - JavaScript does not require it
- **Use spacing (indenting, blank lines, etc.) to make code more readable**
 - JavaScript ignores these extra spaces

Output Statements

Simple Pop-Up Box:

```
alert("Put message here!");
```

Write to the webpage:

```
document.writeln("<p>Hello</p>");
```

Example: [Output.html](#)

Comments

Two styles available:

**`/* Put comment here. Comment
Can span multiple lines... */`**

`// Put single-line comment here`