

HTML/CSS/JAVASCRIPT

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14x Exploration Session

Web Programming

HTML

- content and structure of a web page

CSS

- describes the appearance and layout of information

HTML

- text surrounding by opening and closing tags
- each tag is called an element

```
<!DOCTYPE html>
<html>
  <head>
    information about the page
  </head>
  <body>
    page contents
  </body>
</html>
```

HTML 2

```
<title>title of webpage</title>
```

```
<p>paragraph of text</p>
```

Headings

```
<h1>the most important heading</h1>
```

```
<h2>a less important heading</h2>
```

```
<h3>a less importatn heading still</h3>
```

Self-Closing Tags

```
<br />
```

```
<hr />
```

Attributes

```
<a href="http://www.google.com">Google</a>
```

CSS

```
selector {  
    property: value;  
    property: value;  
    ...  
}
```

```
p {  
    background-color: yellow;  
    color: red;  
    font-family: impact;  
    font-size: 24pt;  
    font-style: italic;  
    font-weight: bold;  
    text-decoration: underline;  
}
```

Bagels

Write a online version of the game Bagels

- use numbers 0 - 9

- pica, fermi, bagels

Javascript

Client-Side Scripting

- modify a web page without having to wait for server
- event-driven : can respond the user's clicks

Javascript can also manipulate html tags

Javascript 2

Javascript vs Java

'looser' data types : var vs int/double/String

"2" + 3 = 5

Boolean: 'truthy' or 'falsey'

"5.0" == 5 // true

"5.0" === 5 //false

var a = new Array();

Javascript 3

```
alert("hello");
```

```
window.onload = function() {  
    // code to run once page is loaded  
}
```

Scriptaculous

Adds visual effects

Appearing Effects

Disappearing Effects

To get YOUR Attention Effects

[Examples](#) (thanks Marty)

Scriptaculous 2

```
element.effectName();
```

```
$("winner").pulsate();
```