the web page

this is the first slide of the rest of your class

Things We've Already Talked About

Headline →

Categories →

← **Image**

← **Paragraph**

← **Article**

Navigation

Specific Content

Examples of html tags

<title>   <link>

<article>   <script>

<section>   <meta>

A more ridiculous bookshelf taxonomy

```
<book>
 <title>HTML5 for Designers
 </title>
 <chapters>
  <chapter>
   <page />
   <page />
  </chapter>
 </chapters>
</book>
```

HTML

HTML Tag Review

<html>   <h1>

<head>   <h2>

<body>   <h3>

<p>   <h4>

<a>   <h5>

<img>   <h6>

HTML Document Tags

```
<!DOCTYPE html> ?
<html>
<head>
<body>
```

HTML Content Tags

<p>

<a>

<h1>

<h2>

<h3>

<h4>

<h5>

<h6>

<header>

<footer>

<section>

<article>

<aside>

Sets of Tags

- Some tags can be used by themselves

- Some tags must have a direct parent/child relationship

- Some tags are part of a larger set, some of which can be used, some of which must be used as parent/child

Solo Tags

```
<p>
<a>
<img>
<br>
<hr>
<strong>
<small>
<em>
```

Parent/Child Sets

```
<ul>
<ol>
```

```
<li>
```

Related Sets

<header>   <section>   <h1>
<footer>   <article>   <h2>
                <aside>   <h3>
                                <h4>
                                <h5>
                                <h6>

Use of Solo Tags

```
<p>This is the first paragraph
in my amazing story.</p>
<img src="dancing_cat.gif" />
<p>What an amazing cat, am I
right? <br /> I'm glad we're in
<a href="http://
cooper.edu">agreement</a>.</p>
```

Use of Related Tags

```
<header>
 <h1>This is a headline!</h1>
 <h2>An unfortunate story
 beginning.</h2>
</header>
<article>
 <h4>Chapter 1</h4>
 <p>It was a dark and stormy
 night…</p>
</article>
```

Use of Parent/Child Tags

```
<h1>A list of cuisines</h1>
<ul>
 <li>Italian</li>
 <li>Thai</li>
 <li>French</li>
 <li>American Bistro</li>
 <li>Michelin Star</li>
 <li>Japanese</li>
 <li>Ethiopian</li>
</ul>
```

Use of Parent/Child Tags

```
<h1>Favorite Star Trek
Television shows</h1>
<ol>
 <li>Next Generation</li>
 <li>Deep Space 9</li>
 <li>TOS</li>
 <li>Enterprise</li>
 <li>Voyager</li>
</ol>
```

Full HTML Document

```
<!DOCTYPE html>
<html>
 <head>
  <title>My 1st site!</title>
 </head>
 <body>
  <p>The cheese stands alone.</p>
 </body>
</html>
```

All content tags go inside the <body>

HTML Attributes

Rules of Tags

- Self-closing tags

$$<tag \; />$$

- Non-self-closing tags

$$<tag> \; content \; </tag>$$

Where is the content?

Review of the "a" tag

`<a `**`href="`**`http://www.cooper.edu`**`"`**`>Cooper Union</a>`

The href
attribute

Review of the "img" tag

`<img` `src="http://placekitten.com/g/640/480"` `/>`

The src attribute

Rules of Attributes

- Attributes can go on every html tag in an entire document

- Attributes are used to describe a tag more specifically than just using a tag name

- Some attributes only apply to a specific set of tags

- Attributes are a way of imposing a custom taxonomy onto a specific list of tags

Attribute Syntax

`<a href="http://www.cooper.edu">Cooper Union</a>`
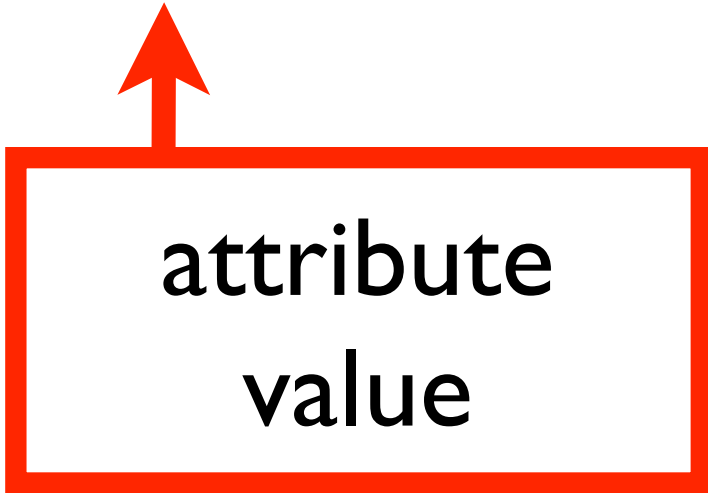
attribute name	attribute value	tag content

Attribute Syntax

`<img src="http://placekitten.com/g/640/480" />`

attribute
name

attribute
value

Common Attributes

```
href
src
id
class
name
value
```

Common Attribute Explanations

- href = this tag references another document

- src = the contents of another document should be embedded in this tag

- id = this is a unique identifier within this document

- class = there are many of these things in this document

A bookshelf taxonomy

```
<bookshelf>
 <shelf>
  <book />
  <book />
  <book />
 </shelf>
 <shelf>…</shelf>
</bookshelf>
```

A bookshelf taxonomy with attributes

```
<bookshelf>
 <shelf id="shelf1">
  <book id="book1" />
  <book id="book2"/>
  <book id="book3"/>
 </shelf>
 <shelf id="shelf2">…</shelf>
</bookshelf>
```

A valid bookshelf taxonomy

```
<section id="bookshelf">
<div id="shelf1" class="shelf">
 <article id="1" class="book"/>
 <article id="2" class="book"/>
 <article id="3" class="book"/>
</div>
<div id="shelf2"
class="shelf">…</div>
</section>
```

Assignment:
Create a valid html document and taxonomy using attributes

- Start with your taxonomy from last week, or create a new one.

- Use only valid HTML tags.

- Annotate tags with ids and classes, where relevant.

- Save your work in SublimeText as a .html file, and post it to the slack channel.

- Validate your work!

HTML Page Requirements

- Doctype

- Html tag

- Head

- Body

Html Page (very bare)

```
<!DOCTYPE html>
```

Html Page (very bare)

```
<!DOCTYPE html>


<html>



</html>
```

Html Page (very bare)

```
<!DOCTYPE html>


<html>
  <head>

  </head>



</html>
```

Html Page (very bare)

```
<!DOCTYPE html>


<html>
  <head>

  </head>
  <body>

  </body>
</html>
```

Html Page (very bare)

```
<!DOCTYPE html>


<html>
  <head>
    <title>Page Title</title>
  </head>
  <body>

  </body>
</html>
```

Html Page (with title)
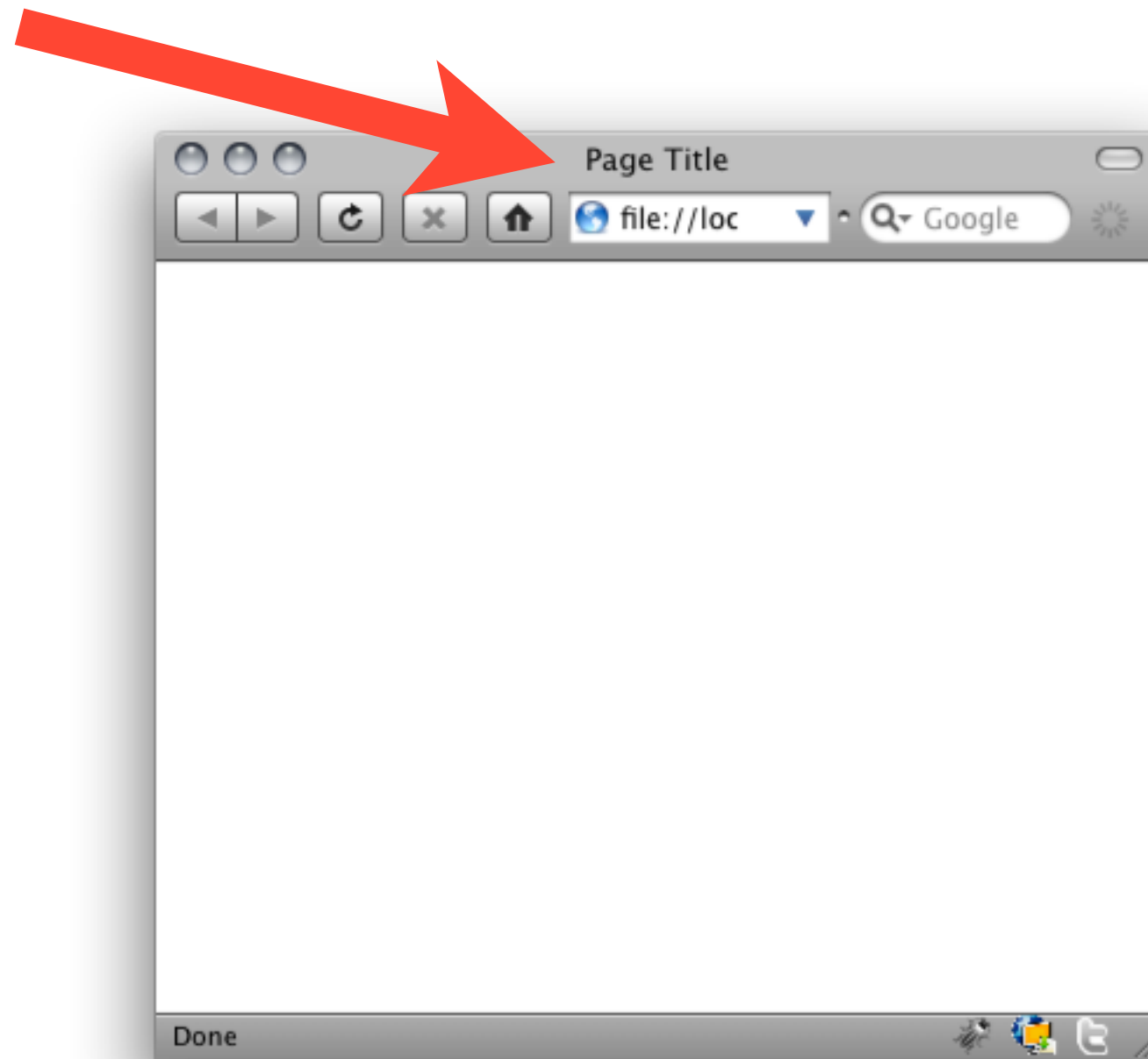
```
<html>
  <head>
    <title>Page Title</title>
  </head>
  <body>
```
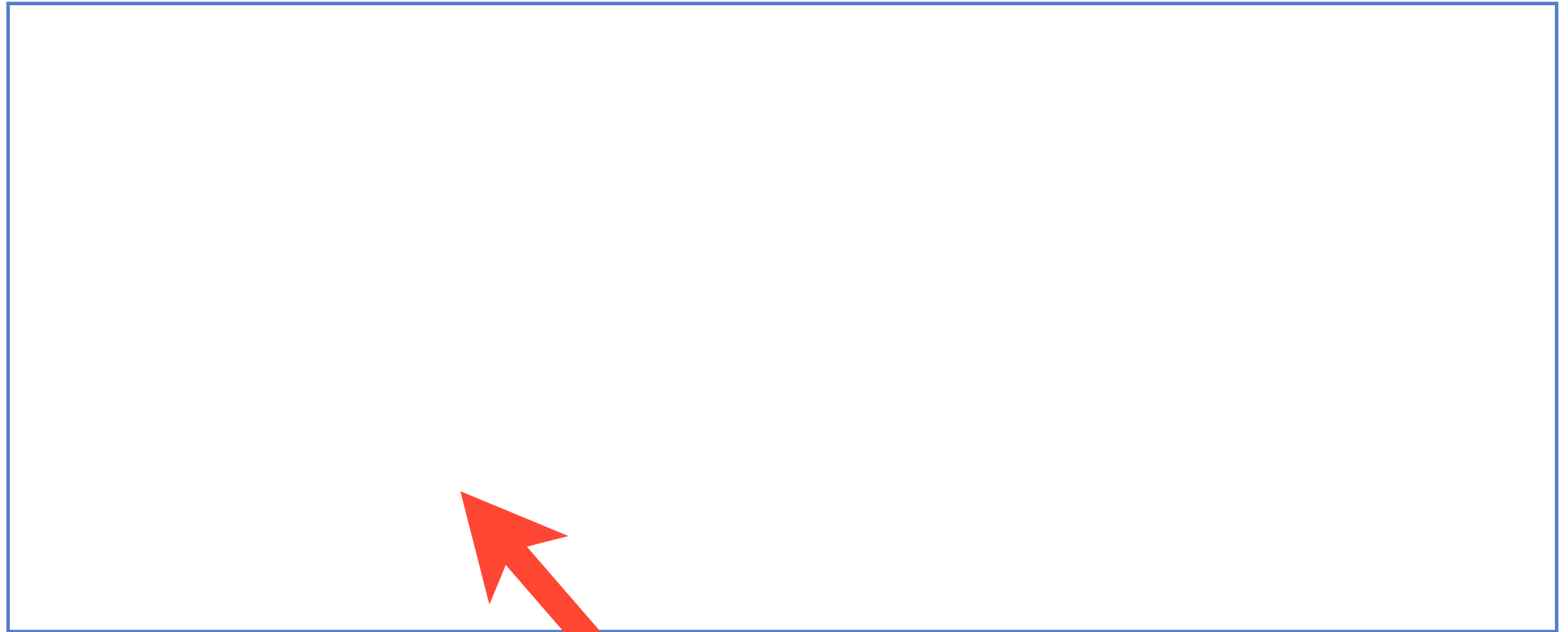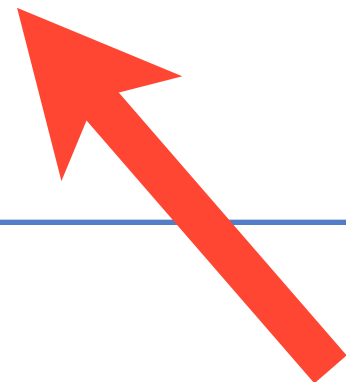
Every other tag goes here

```
  </body>
</html>
```

http://validator.w3.org