### Introduction to HTML

**CSE 264** 

Web Systems Programming

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### Introduction to HTML

Hyper Text Markup Language

Markup language for creating web pages

Two types of elements

- Tags
- Text

Free format (mostly)

Provides *semantics* and *structure*, NOT *presentation*.

### HTML – The Law

Lowercase tag names -

Termination required -...

Attribute values in quotes

Attribute values explicit

<input type="checkbox"
checked='checked'/>

Nesting restrictions enforced

Must use entities for <, >, &, ", "

# Nesting

#### Ok

<h1><strong>Header</strong></h1>

Not Ok

<h1><strong>Header</h1></strong>

## Entities

## **DOCTYPE**

Unless otherwise noted, we will always use the doctype for html5:

<!DOCTYPE html>

### Minimal Document

```
<!DOCTYPE html>
<html>
  <head>
   <title>Page title</title>
  </head>
<body>
   The content of the doc
</body>
</html>
```

### Header Elements

- <title>
- <base>
- k>
- <meta>
- <script>
- <style>

### Common Attributes

id

- Uniquely identifies an element

class

Places an element in a group/classification

style

Associates styles with an element

name

Form field name

# Element Types

Inline Block

### Text Tags

```
- Paragraph
<h1>, <h2>, <h3>, <h4>, <h5>,
<h6>- Headings
```

## Content Tags

- <abbr>
- <acronym>
- <cite>
- <code>
- <dfn>
- <em>
- <kbd>
- <samp>

- <strong>
- <var>
- <blockquote>
- $\langle q \rangle$
- <address>

### Comment

<!--

This is an HTML comment.

\_\_>

#### Tables

```
<thead>
  heading cell ...
 </thead>
 non
heading cell
```

### Lists

Three types of lists:

- Ordered
- Unordered
- Definition

### Ordered List

```
     Item 1
     Item 2
```

### Unordered List

```
Item 1Item 2
```

### **Definition List**

```
<dl>
<dl>
<dt>Term 1</dt>
<dd>Definition 1</dd>
<dd>Term 2</dd>
<dd>Term 2</dd>
</dd>
</dd>
</dd>
</dd>
</dl>
```

### **Images**

```
<img src=... alt=... name=...
align=... height=... width=...
hspace=... vspace=... border=...>
Image can be a jpeg, gif, png
Attributes
```

- src=url that contains image
- alt= Substitute text in place of image
- name=Name of image

# Images (continued)

align=left, right, top, middle, bottom/texttop, absmiddle, absbottom, baseline, center

height, width - reserve space on page

use for: performance, scaling (perhaps a bad idea), block fills

border= # of pixels in border

# Hyperlinks

<a href='newpage.html'>Click
Here!</a>

# Line Break

<br/>br/>

# Structuring

the div tag
the span tag

#### div

Block element

Division

Use to create named containers for sections of your document

<div class=... id=... style= ...>

#### span

Inline

Use to name small pieces of your document (typically text).

<span class=... id=... style= ...>

</span>

#### Forms

```
<form name=... action=...

method=(get|post) >
</form>
```

<input type=... name=... size=n
maxlength=n value=... checked>

### Forms - Elements

```
text
checkbox
radio
submit
reset
image (src=)
button
hidden
```

### Forms - Elements

```
cols=n>
</textarea>
<select name=colors size=n</pre>
multiple>
 <option value="blue">blue</option>
</select>
```

<textarea name=... rows=n

# Additional Elements

Label

Button

Fieldset

### Label Element

```
<label for="username">
        <span
        class="accesskey">n</span>ame:
        </label>
        <input type=text
id="username" size=25>
```

#### **Button Element**

#### Use HTML for a button label

```
<button style=".....">
   click me
   <span style="...">now!</span>
</button>
```

### Fieldset Element

#### Group Related Controls

#### Inline Frames

Similar to regular frames, but are embedded in a regular HTML page

```
<iframe src="frame.html"
align=(top, middle, bottom,
left, right)...> </iframe>
```