#### Get started with HTML and CSS

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### Outline

# HTML What is HTML? Tags

More on Elements

Quiz

#### **CSS**

What is CSS? Integrating CSS

Syntax

Selectors

Rules

Quiz

## Define HTML

Hypertext Markup Language

# Markup Languages

- ➤ xml
- ▶ haml
- ▶ yaml
- ► toml

# But I still don't get it

#### the structure of the web pages

- ► list
- ► table
- ▶ form
- ▶ button
- and more

## Example

#### <head>

<body>

<body> contains the real content

## <a>> for anchor

the most important tag

<a href="http://w3c.org">w3c</a>

# <h1> - <h6> for headings

```
<h1>Title<h1><h2>Section Title<h2>
```

# for paragraph

html was for documentation
a paragraph

another
paragraph

### <br /> <br /> br> line break

line break in the source code are ignored, but why?

```
line1line2
```

# preformatted

```
line1
line2
```

## ordered list

```
    first
    last
```

## ul> unordered list

```
first
li>first
last
```



div is ubiquitous div has no semantic meaning, think it as a container

<div class="ad"></div>

# Some outdated tags

why you should not use them?

- ▶ i for italic
- ▶ b for bold

## More tags

▶ http://www.w3schools.com/tags/default.asp

## Attribute

<a href="http://gnu.org">GNU</a>

## Children

```
    first
    second
    last
```

#### To close or not to close

p has children, must be closed

img has no children

```
<img src="path/to/image.png">
<img src="path/to/image.png" />
```

#### Inline vs Block

```
>
begin
<span>inline</span>
<span>element</span>
end
<div>
begin
<div>block</div>
<div>element</div>
end
</div>
```

## Block element examples

- **▶** p
- ► div
- ► table
- ▶ pre
- ▶ form

## Inline element examples

- span
- ▶ a
- ▶ img
- ► input

## Valide?

<span> 1 < 2 </span>

# Escapting

```
<span> 1 &lt; 2 </span>
<span>1&nbsp;2</span>
```

## Define CSS

Cascading Style Sheet

## What is CSS?

#### the presentation of web pages

- ► color
- ► font
- ► layout
- animation
- and more

## Example

```
body {
  background: #efefef;
  width: 960px;
}
```

# Ways to adding css to web page

- ▶ inline
- ▶ use the <style> element
- ▶ use <link>

# Inlining

```
<div style="font-size: 20px; color: red">
  in read
</div>
```

# Inlining

it's quick but ugly, why?

# Using <style>

```
<style type="text/css">
body {
  color: black;
}
div {
  color: white;
}
</style>
```

# Using <link>

loading external style sheet

<link rel="stylesheet" type="text/css" href="theme.css">

## Selector and rule

```
a {
  color: red;
}
```

# By tag name

```
a {
  color: red;
}
```

# By id

```
<div id="main"></div>
#main {
}
```

## By class

```
<div class="container"></div>
.container {
}
```

Which way is better?

Which way is better?

#### font

color: #ccc

font-size: 30px
font-family: ''

font-weight: bold

#### color

color: #333 color: #eaeaea

color: blue

color: rgb(255, 0, 0)

## Selectors

body div.ad {}
div.ad p {}