Get started with HTML and CSS

Feng Zhou

2016-10-21

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

w3c

<h1> - <h6> for headings

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

for paragraph

html was for documentation
a paragraph

another
paragraph

 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Some outdated tags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

GNU

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?

 1 < 2

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: 'Helvetica';
font-weight: bold;
```

color

```
color: #333;
color: #eaeaea;
color: blue;
color: rgb(255, 0, 0);
```

margin

```
margin-top: 10px;
margin-right: 20px;
margin-bottom: 30px;
margin-left: 40px;
```

margin

margin: 10px 20px 30px 40px;

margin

margin: 0 auto;

padding

syntax ideneical as margin

border

border: 1px solid red;

Selectors

body div.ad {}

div.ad p {}

Margin

margin: 10px 20px