

Introduction to HTML

WEB INTENSIVE SERIES

Basic Document Structure

Document type
declaration for HTML5

`<head>` tag allows us
to specify attributes like
page title and character
set

`<body>` tag provides a
container for elements
to be displayed in the
rendered view of the
page

The rendered view is
composed of several
block elements that
are displayed in the
same order as they are
specified in the HTML
markup

The start of each new
block element is
indicated by an
opening tag

Although not required,
it is conventional to
“beautify” HTML
markup using
progressive
indentations for each
nested block element

We must end every
block element with a
closing tag

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title>My first HTML page</title>
```

```
  <meta charset="UTF-8">
```

```
</head>
```

```
<body>
```

```
<h1>
```

A basic HTML page

```
</h1>
```

```
<p>
```

Hello, world! This is my first HTML page. My name is [name]. I am a [status] at Northeastern University. I study [subject]. Today's date is [date].

```
</p>
```

```
<div>
```

Here is a list of three places I have traveled in my life:

```
<ul>
```

```
<li> • Kyoto, Japan </li>
```

```
<li> • Beijing, China </li>
```

```
<li> • Toronto, Canada </li>
```

```
</ul>
```

```
</div>
```

```
<div>
```

Here is a list of my three favorite foods, in order of preference:

```
<ol>
```

```
<li> 1. Thai red curry </li>
```

```
<li> 2. chana masala </li>
```

```
<li> 3. pizza </li>
```

```
</ol>
```

```
</div>
```

```
<div>
```

Here is a photo of my favorite food:

```
</div>
```

```
<div>
```

```

```

```
</div>
```

```
<p>
```

My favorite website is `` this one `` right here.

```
</p>
```

```
</body>
```

```
</html>
```

Common HTML Tags and Elements

Element (semantic)	Tag Name	Markup Format	Global Attributes
document type declaration Tells the browser that the page should be rendered using HTML5 specifications	<!DOCTYPE>	<!DOCTYPE html>	All HTML elements may be used with the following global attributes, though some attributes may have no effect on certain elements: <div><div>class</div>Class name (CSS)</div> <div><div>id</div>Unique assigned ID</div> <div><div>style</div>CSS style attributes</div> <div><div>title</div>Alternate text (tooltip)</div> <div><div>lang</div>Language of element</div> <div>...</div>

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Identifying Block Structure

Draw boxes around the contents of the following example Web page to indicate all block-level display elements. Each new block element should be encapsulated within its own drawn box. Indicate proper element nesting with your drawn boxes.

A brief introduction to HTML

by Steven Braun

What is HTML?

HTML stands for “Hypertext Markup Language” and is the Web’s core language for creating Web documents. The **World Wide Web Consortium** (W3C) describes the history of HTML briefly:

Originally, HTML was primarily designed as a language for semantically describing scientific documents. Its general design, however, has enabled it to be adapted, over the subsequent years, to describe a number of other types of documents and even applications.

HTML has undergone many revisions since its first specification in 1990. Today, most Web documents are composed with [HTML5, the most current specification for HTML](#) documents on the Web. HTML5 emphasizes the use of *semantic markup principles* to separate two facets of a Web document: **content** and **style**.

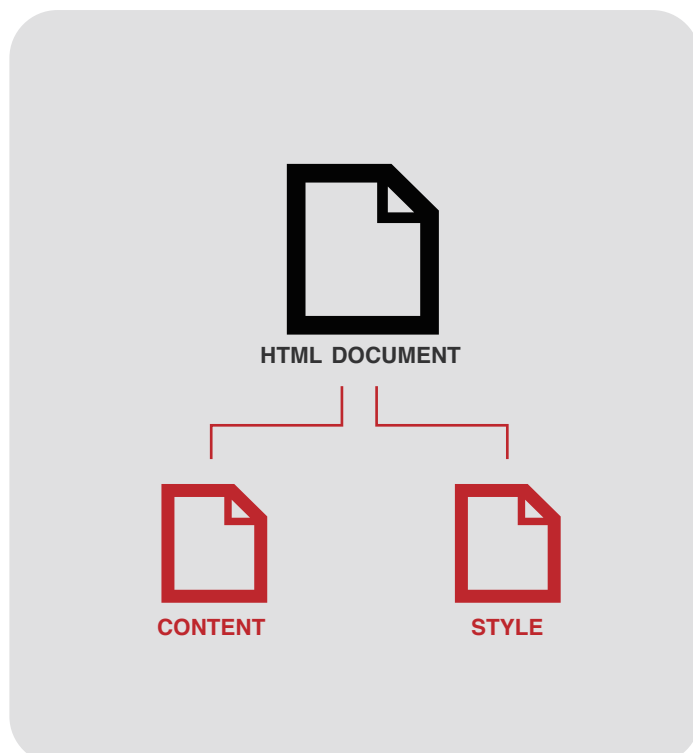
Content

HTML *content* includes the primitive elements on a page and the structure of their arrangement. This includes objects like paragraphs, hyperlinks, and images, but it also includes structural syntax.

Style

HTML *style* includes the specification that dictates how the *content* is rendered. This is best dictated by using cascading style sheets (CSS). Some example CSS properties include:

- text color, font, size
- background color of the page
- visual arrangement of elements



Introduction to HTML

WEB INTENSIVE SERIES

Identifying Semantic Structure

Highlight or mark all semantic elements within the contents of the following example Web page.

A brief introduction to HTML

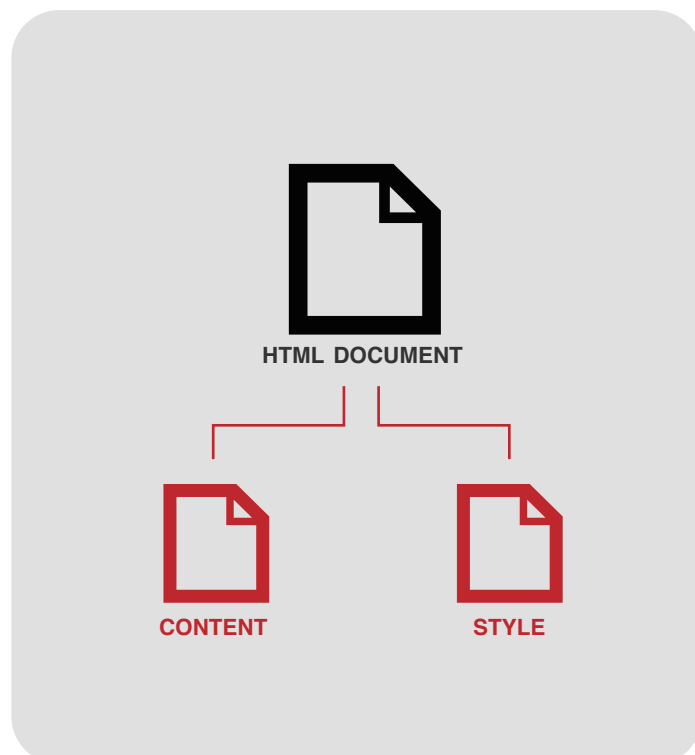
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