

Introduction to HTML & CSS

Conflict Urbanism: InfraPolitics

Tutorial 8

Oct 31 & Nov 3, 2017

By the end of this workshop

- Set up a Case Study for your project
- Edit an HTML Template to add your own content
- Manually create links and objects in a website
- Utilize Elements, Tags, and Attributes to add functionality and navigation to a site
- Navigate Selectors, Properties, and Values to add style to a site

CONTENT
+ STRUCTURE (HTML)
+ STYLE (CSS)
+ FUNCTIONALITY (JS)

A WEBSITE

Web Basics

- Every site uses at least 2 languages:
 - HyperText Markup Language
 - Cascading Style Sheets
- Some use a 3rd:
 - JavaScript
- Modern Browsers "read" these languages to display content

HTML

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 - division (section) <div>
 - headings <h1>
 - paragraphs <p>

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 - opening tag <p>
 - closing tag </p>
- **ATTRIBUTES** give more information about ELEMENTS
 - id
 - class
 - src
 - href

HTML

“BEGIN ITALICS”

THE TEXT

“END ITALICS”

`<i>text</i>`

WHAT APPEARS ON THE SCREEN



text

HTML Document Object Model (DOM) **Nested**

- Plain text document saved with .html suffix
- Every document needs:

<!DOCTYPE html>

<html>

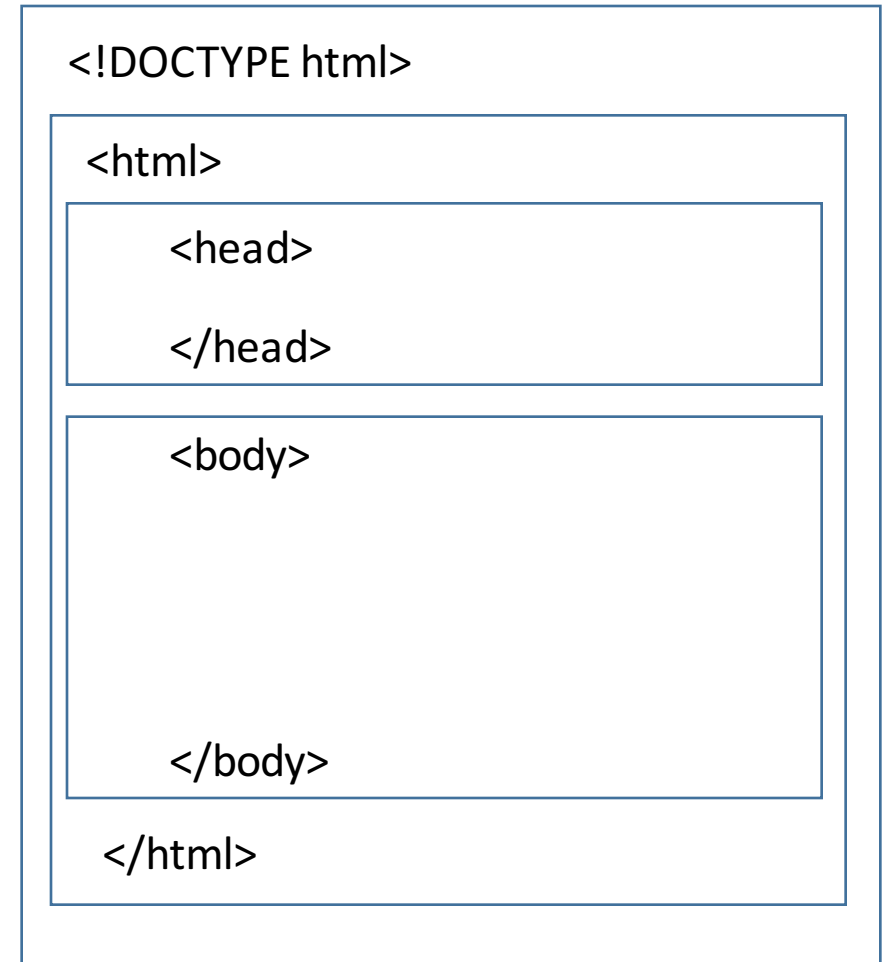
<head>

</head>

<body>

</body>

</html>



Typical header

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
  <head>
```

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

```
    <title>Hello World</title>
```

```
  </head>
```

```
  <body>
```

```
    <h1>Hello World</h1>
```

```
    <p>This is a web page.</p>
```

```
  </body>
```

```
</html>
```

TYPE SELECTORS

- Select all the elements by their type (i.e., all div's)

In the CSS file:

```
div {property: value;  
    property: value;  
}
```

In the HTML file:

```
<div> ... great content... </div>  
<div> ... greater content... </div>
```

CLASS SELECTORS

- More specific than type selectors
- Select based on class attribute value (group of elements)

In the CSS file:

```
.bantu {property: value;  
        property: value;  
}
```

In the HTML file:

```
<div class = "bantu"> ... weebale... </div>  
<p class = "bantu"> ... oli otya... </div>
```

ID SELECTORS

- More precise than class selectors
- One element at a time

In the CSS file:

```
#nilotic {property: value;  
          property: value;  
          }
```

In the HTML file:

```
<div id = "nilotic"> ... yoga noi... </div>  
<p id = "nilotic"> ... yoga swam... </div>
```

HTML + CSS

- Save the CSS file in the SAME FOLDER as the .html file
- Each HTML file should only have one CSS file (we will break this rule soon)
- Point the HTML document to read the CSS document in the <head>

<head>

 <link rel =“stylesheet” href=“main.css”>

</head>

Notes to Self

- Commenting code

HTML

```
<!-- this does that -->
```

CSS

```
/* this looks like that */
```

The Case Study

Folder Structure

- Everything natively in your site must be in the same folder or a folder within the folder (i.e., text, images (incl. maps), audio, etc.).
- The only exception is things you point to on the internet (i.e., YouTube Videos, map tiles, etc.).
- The CaseStudy folder has the HTML and CSS documents

Open the files

- Open the .html and the .css files with a text editor:
 - Sublime
 - Text Wrangler
 - Another text editor of your choice (not MS Word or Google Docs)
- Open the .html file with Google Chrome
 - If Chrome is not your default, 'right click' or 'command+click'

Understand the Document

- Header
 - Metadata
 - Link to bootstrap
 - Link to css
- Body
 - Div
 - Case Study Title
 - Internal link structure
 - Embedding maps, videos, documents, etc.
 - Footnotes

Inspect the HTML

- View > Developer > Developer Tools

Header

```
<!DOCTYPE html><html lang="en">  
<head>
```

Add: Project Keyword Description & Name

```
<meta name="description" content="">  
<meta name="author" content="">
```

Body - Introduction

Add: Case Study Title

```
<h5>Case Study | Type Title Here </h5>
```

-Add: Image Header: File Size: 1800x450.png.

Save your file as 'Header_image_1800x450.png' in the folder. Use Illustrator Template in folder if you require sizing

```

```

Body - Content

- Sections
- Paragraphs
- Images
- Maps
- Embedded files
- Citations

Citations

- Footnotes
- `<div class="footnotes">`

TO DO

- Change project title (39)
- Make another Section (55)
- Add an image (66)
- Embed a map you made (81)
- Update a Footnote (63 & 96)