

HTML 101

Data: 8/30/2020

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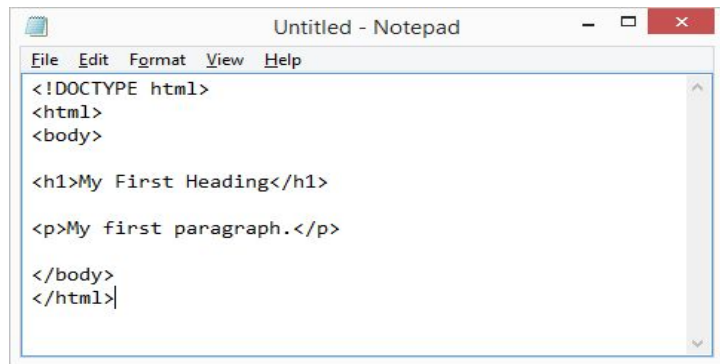
Before we begin

- Did anyone have trouble installing webstorm?

What is HTML?

HTML is a **markup language**, which consists of a set of markup tags.

The purpose of the tags is to group and describe page content.

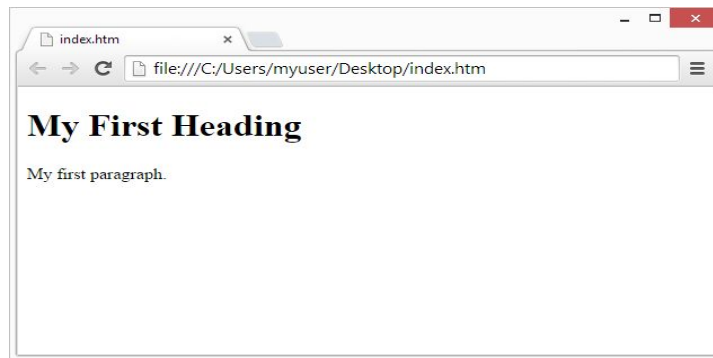
A screenshot of a Notepad window titled "Untitled - Notepad". The menu bar includes File, Edit, Format, View, and Help. The text area contains the following HTML code:

```
<!DOCTYPE html>
<html>
<body>

<h1>My First Heading</h1>

<p>My first paragraph.</p>

</body>
</html>
```



Markup Language

Markup language gives your content **structure**.

Without markup, the browser renders unformatted and unstyled text, also known as “plain text”.

Pitchfork Music Festival Set Times Revealed
Check out the schedule for all three days

June 8, 2012 at 12:35 p.m.

Pitchfork Music Festival 2012, which returns to Chicago's Union Park July 13-15, is just five weeks away! The festival will feature Vampire Weekend, Feist, Godspeed You! Black Emperor, Beach House, Dirty Projectors, Hot Chip, Sleigh Bells, Wild Flag, Flying Lotus, Japandroids, Chromatics, Real Estate, ASAP Rocky, Danny Brown, and many, many more. And now, we're happy to announce the complete three-day schedule for the festival. Below, find the set times for all of the bands playing.

Friday, July 13:
Gates at 3 p.m.

8:30 Feist (GREEN)
8:20 Purity Ring (BLUE)
7:20 Dirty Projectors (RED)
7:15 Clams Casino (BLUE)
6:25 Big K.R.I.T. (GREEN)
6:15 Japandroids (BLUE)
5:30 ASAP Rocky (RED)

Saturday, July 14:
Gates at 12 p.m.

8:40 Grimes (BLUE)
8:30 Godspeed You! Black Emperor (GREEN)
7:40 Danny Brown (BLUE)
7:25 Hot Chip (RED)
6:45 Chromatics (BLUE)
6:15 Sleigh Bells (GREEN)



Pitchfork Music Festival Set Times Revealed Check out the schedule for all three days June 8, 2012 at 12:35 p.m. Pitchfork Music Festival 2012, which returns to Chicago's Union Park July 13-15, is just five weeks away! The festival will feature Vampire Weekend, Feist, Godspeed You! Black Emperor, Beach House, Dirty Projectors, Hot Chip, Sleigh Bells, Wild Flag, Flying Lotus, Japandroids, Chromatics, Real Estate, ASAP Rocky, Danny Brown, and many, many more. And now, we're happy to announce the complete three-day schedule for the festival. Below, find the set times for all of the bands playing. Friday, July 13: Gates at 3 p.m. 8:30 Feist (GREEN) 8:20 Purity Ring (BLUE) 7:20 Dirty Projectors (RED) 7:15 Clams Casino (BLUE) 6:25 Big K.R.I.T. (GREEN) 6:15 Japandroids (BLUE) 5:30 ASAP Rocky (RED) Saturday, July 14: Gates at 12 p.m. 8:40 Grimes (BLUE) 8:30 Godspeed You! Black Emperor (GREEN) 7:40 Danny Brown (BLUE) 7:25 Hot Chip (RED) 6:45 Chromatics (BLUE) 6:15 Sleigh Bells (GREEN) 5:45 Schoolboy Q (BLUE) Buy tickets here.

Continue

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="utf-8" />
5 </head>
6 <body>
7
8
9   <h1>Pitchfork Music Festival Set Times Revealed</h1>
10  <h2>Check out the schedule for all three days</h2>
11
12  <em>June 8, 2012 at 12:35 p.m.</em>
13
14  <p>Pitchfork Music Festival 2012, which returns to Chicago's Union Park July 13-15, is just five weeks away! The festival will f
15
16  <h3>Friday, July 13:</h3>
17  <b>Gates at 3 p.m.</b>
18  <ul>
19    <li>8:30 Feist (GREEN)</li>
20    <li>8:20 Purity Ring (BLUE)</li>
21    <li>7:20 Dirty Projectors (RED)</li>
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23    <li>6:25 Big K.R.I.T. (GREEN)</li>
24    <li>6:15 Japandroids (BLUE)</li>
25    <li>5:30 ASAP Rocky (RED)</li>
26  </ul>
27
28  <h3>Saturday, July 14:</h3>
29  <b>Gates at 12 p.m.</b>
30
31  <ul>
32    <li>8:40 Grimes (BLUE)</li>
33    <li>8:30 Godspeed You! Black Emperor (GREEN)</li>
```

Markup Language

Once your content is marked up, the browser applies built-in default styles to the tags.

While you can override these styles with **CSS**, your marked up, non-CSS styled document should be readable and have a clear hierarchy.

Pitchfork Music Festival Set Times Revealed

Check out the schedule for all three days

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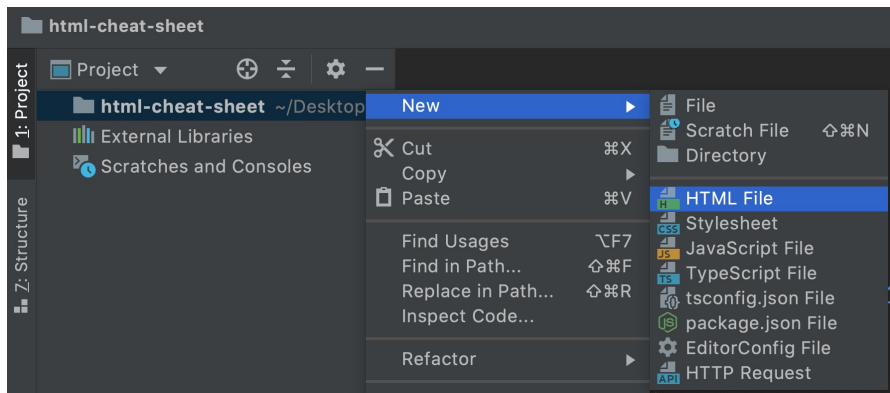
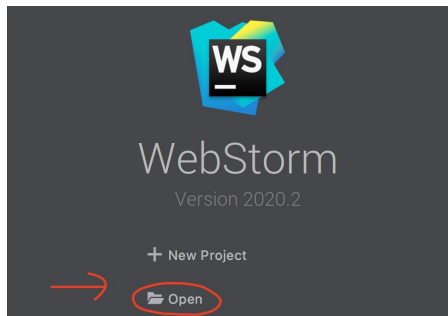
Saturday, July 14:

What you need to start

- A **web browser** of your choice
 - Google chrome
 - Firefox
 - Safira
 - Edge
- A **text editor** of your choice
 - Webstorm (recommended)
 - Sublime Text
 - Atom.io
 - Visual Studio Code

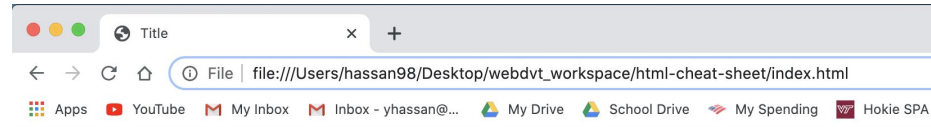
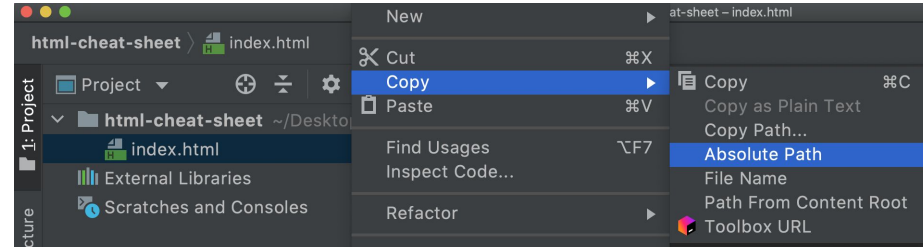
Directions

1. Create a folder on your computer called **"webdvt_workspace"**. Then create another folder (inside **"webdvt_workspace"**) called **"html-cheat-sheet"**.
2. Open up WebStorm (or any text editors or your choice).
3. Inside webstorm, open the folder you just created.
4. Right click on the folder on your left sidebar. Create an HTML file named **"index.html"**.



Creating an HTML page

- Files must end with .html extension
- You can run your HTML file on a browser by:
 - a. Copy the absolute path of the file.
 - b. On your browser address bar, type in **"file:///"** followed by the absolute path of your HTML file.
 - c. Example:
 - "file:///users/hassan98/Desktop/webdvt_workspace/index.html"



Hi

Tag Syntax

- Element names surrounded by angle brackets
- Normally come in pairs (start tag and end tag)
- Some tags close themselves
 - `
` (line break)
 - No content within them

HTML `<tag>` Syntax

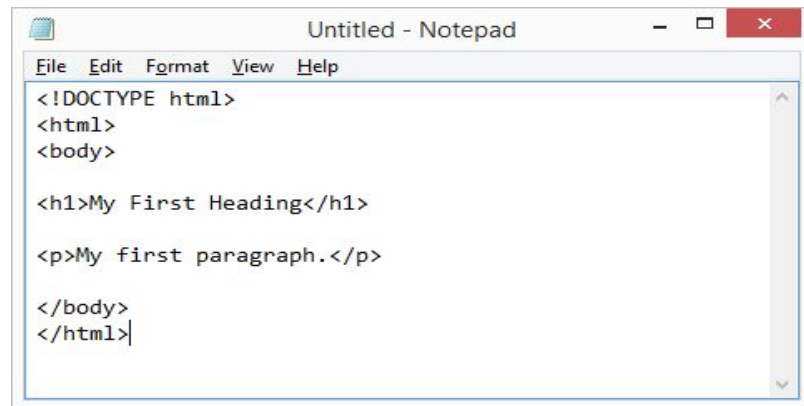


What is DOCTYPE?

The doctype is not actually a tag, but a declaration, telling the browser what kind of html you are using.

This doctype below declares HTML 5.

`<!DOCTYPE html>`



```
File Edit Format View Help
<!DOCTYPE html>
<html>
<body>

<h1>My First Heading</h1>

<p>My first paragraph.</p>

</body>
</html>
```

Html, head, and body tags

```
<html></html>
```

The <html> tag/element defines the whole HTML document.

```
<head></head>
```

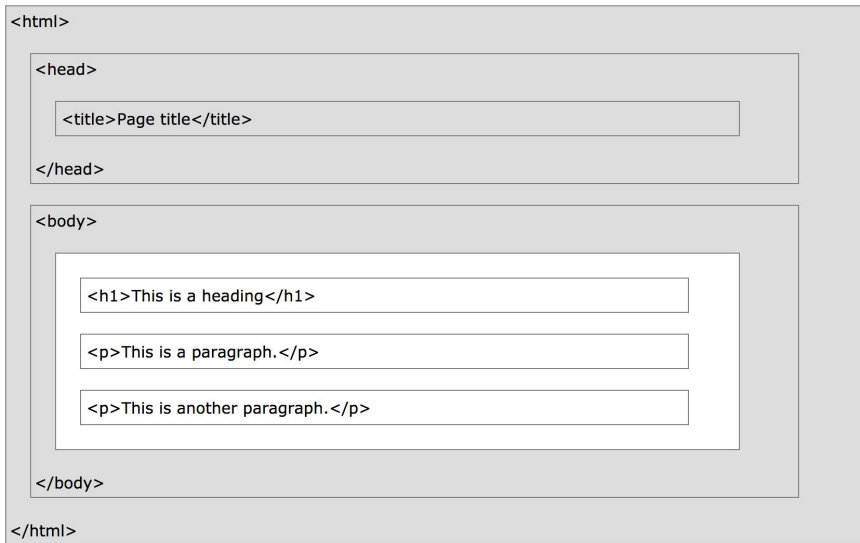
The <head> element contains special elements that instruct the browser where to find stylesheets, provide meta info, and more.

```
<body></body>
```

The <body> element contains the document content (what is shown inside the browser window).

HTML Page Structure

```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
  </head>
  <body>
    <h1>My First Heading</h1>
    <p>My First paragraph</p>
  </body>
</html>
```



Inline vs Block Level Elements

- **Inline Elements:**
 - Do not start on a new line
 - Take only necessary width
- **Block Elements:**
 - Start on a new line
 - Take full width available
- **Block Level:** <div>, <h1> - <h6>, <p>, <form>
- **Inline Level:** , , <a>

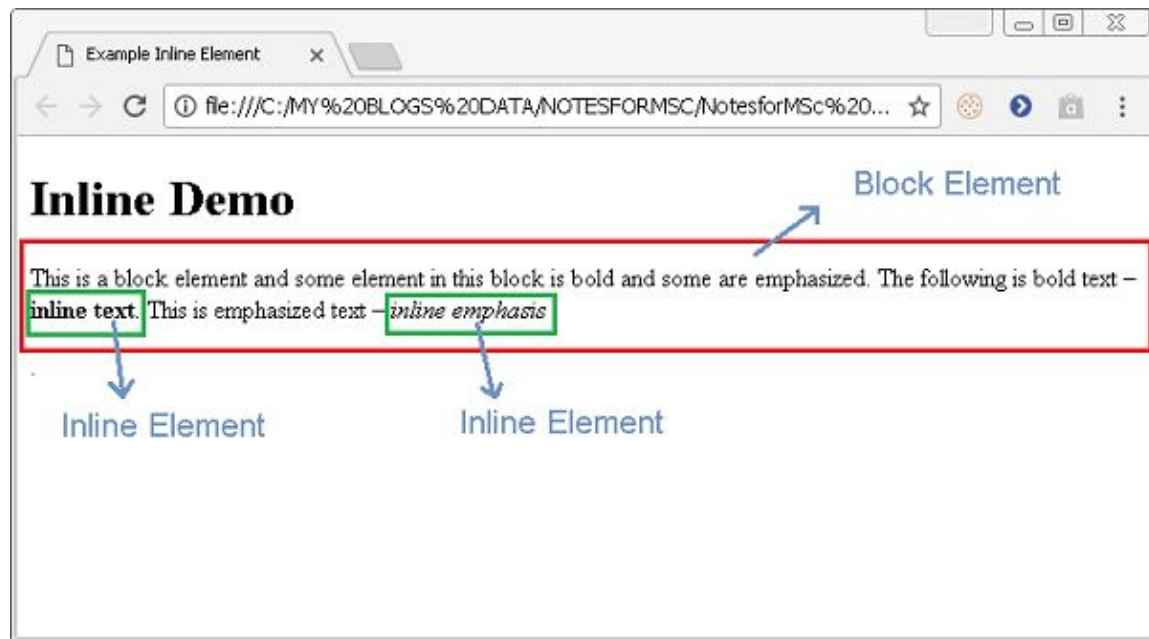
BLOCK-LEVEL ELEMENTS:



INLINE ELEMENTS:

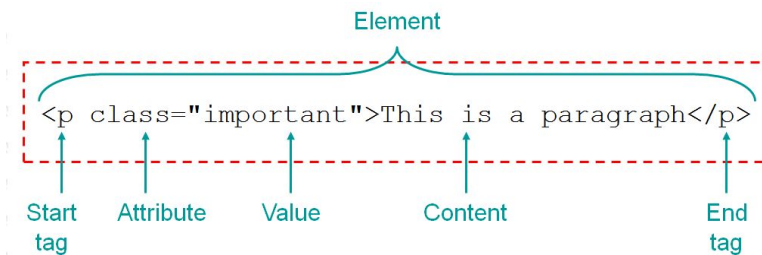


Example



Tag Attributes

- All tags can have attributes
- Provide information about an element
- Placed within the start tag
- Key/value pairs (id = "some_id")



Essential Elements Tags

Primary Structure

html
head
body

Head Elements

title
meta
link

Structural Elements (block)

p
br
h1 – h6
ul
ol
a
img
(div)

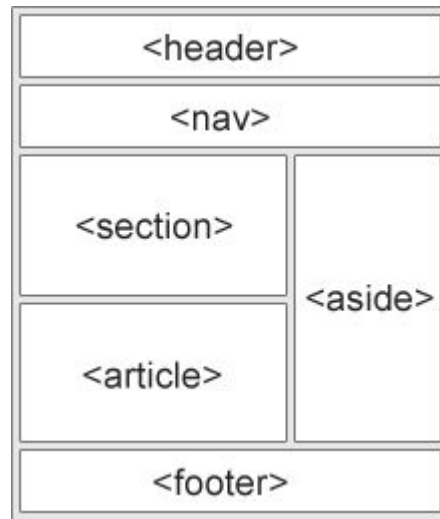
Formatting Elements (inline)

em
i
strong
b
q
blockquote
(span)

HTML5 Semantic Tags

A semantic element clearly describes its meaning to both the browser and the developer

- `<header></header>`
- `<footer></footer>`
- `<aside></aside>`
- `<main></main>`
- `<article></article>`
- `<nav></nav>`
- `<section></section>`
- `<details></details>`



Meeting Code File

Here is the completed version of the HTML cheat sheet file!

<https://github.com/webdvt/html-cheat-sheet>

We will start from scratch, but if you miss anything, you can always visit this file!

Citation/Reference

<https://www.slideshare.net/shawncalvert/html-csspresentation>