

Introduction to CSS & HTML


A Hands-On Workshop

Who am I?

Victoria (Vicki) Chapman

Senior Front-End Developer, **Common Media**
Artist & Owner, **Weyakin Designs**

 @weyakin

 facebook.com/weyakindesigns

www.commonmedia.com

www.weyakindesigns.com

What is HTML?

“Hypertext Markup Language, a standardized system for tagging text files to achieve font, color, graphic, and hyperlink effects on World Wide Web pages.”

[Google](#)

HTML is a markup language for describing web documents (web pages).

- HTML stands for Hyper Text Markup Language
- A markup language is a set of markup tags
- HTML documents are described by HTML tags
- Each HTML tag describes different document content

[W3Schools](#)

```
<!DOCTYPE html>
<html itemscope itemtype="http://schema.org/WebPage" lang="en">
  <head>...</head>
  <body class="hp vasq" onload="try{if(!google.j.b){document.f&&document.f.q.focus();document.gbqf&&document.gbqf.q.focus();}}catch(e){if(document.images)new Image().src='/images/nav_logo225.png'" alink="#dd4b39" bgcolor="#fff" id="gsr" link="#12c" text="#222" vlink="#61c" data-pinterest-extension-installed="cr1.38.4">
    <div class="ctr-p" id="viewport">
      <div data-jiis="cc" id="doc-info"></div>
      <div data-jiis="cc" id="cst">...</div>
      <a href="/setprefs?suggon=2&prev=https://www.google.com/?gws_rd%3Dssl&sig=0_Giwa8jn5x0CKvxyLDBIbJeuM5qY%3D" style="left:-1000em;position:absolute">Screen reader users, click here to turn off Google Instant.</a>
      <textarea name="csi" id="csi" style="display:none"></textarea>
      <script>if(google.j.b)document.body.style.visibility='hidden';</script>
      <div class="jhp big" id="searchform">...</div>
      <div id="gac_scont"></div>
      <div class="spch s2fp-h" style="display:none" id="spch">...</div>
      <div class="content" data-jiis="cc" id="main">
        <span class="ctr-p" data-jiis="bp" id="body">
          <center>
            <div style="height:231px;margin-top:80px" id="lga">...</div>
            <div style="height:102px"></div>
            <div id="prm-pt" style="margin-top:12px">...</div>
          </center>
        </span>
        <div class="ctr-p" data-jiis="bp" id="footer">...</div>
      </div>
      <script>...</script>
      <script data-url="/extern_chrome/741e0316b50b8a75.js?bav=or." id="ecs"></script>
      <script>...</script>
      <div class="gb_Ea"></div>
      <style>...</style>
      <script>(function(){var ctx=[];google.jsc.x(ctx);})();</script>
      <div id="xjsd">...</div>
      <div id="xjsi" data-jiis="bp">...</div>
      <script>...</script>
    </div>
    <span style="height: 20px; width: 40px; position: absolute; opacity: 0.85; z-index: 8675309; display: none; cursor: pointer; border: none; top: 90px; left: 568px; background-image: url(data:image/png;base64,iVBORw0KGgoAAAANSUHEUgAAACgAAAAUCAYAAAD/Rn+7AAADU0lEQVR42sZWUjYRjHx0VEYPRFUGmtVEaFUZFhHx8hsotCU5JwBWEf1EWEEVHQx4UfFWYkFa2biPJiXbUta330XFtuUXMzJ4bK3Nqay7m5NeZq6h/tPQ+XU20zugj0xR/+7/08539+5znnMtNTEwJtMb3L/
```

```

<!DOCTYPE html>
<html itemscope itemtype="http://schema.org/WebPage"
  <head>...</head>
  <body class="hp vasq" onload="try{if(!google.j.b){c
nav_logo225.png" alink="#dd4b39" bgcolor="#fff" id=
  <div class="ctr-p" id="viewport">
    <div data-jiis="cc" id="doc-info"></div>
    <div data-jiis="cc" id="cst">...</div>
    <a href="/setprefs?suggon=2&prev=https://www.go
here to turn off Google Instant.</a>
    <textarea name="csi" id="csi" style="display:no
    <script>if(google.j.b)document.body.style.visib
  <div class="jhp big" id="searchform">...</div>
    <div id="gac_scont"></div>
    <div class="spch s2fp-h" style="display:none" i
  <div class="content" data-jiis="cc" id="main">
    <span class="ctr-p" data-jiis="bp" id="body">
      <center>
        <div style="height:231px;margin-top:80px"
          <div style="height:102px"></div>
          <div id="prm-pt" style="margin-top:12px">..
        </center>
      </span>
    <div class="ctr-p" data-jiis="bp" id="footer":
    </div>
    <script>...</script>
    <script data-url="/extern_chrome/741e0316b50b8a
    <script>...</script>
    <div class="gb_Ea"></div>
    <style>...</style>
    <script>(function(){var ctx=[]
;google.jsc.x(ctx);})();</script>
    <div id="xjsd">...</div>
    <div id="xjsi" data-jiis="bp">...</div>
    <script>...</script>
  </div>
  <span style="height: 20px; width: 40px; position:
image: url(data:image/png;base64,iVBORw0KGgoAAAAA
Rn+7AAADU0LEQVR42s2WXUhtYRjHhZ0VEVPRFUgmtVEaFUZFh

```



```

catch(e){}if(document.images)new Image().src='/images/
.led="cr1.38.4">

```

```

-1000em;position:absolute">Screen reader users, click

```

```

r; border: none; top: 90px; left: 568px; background-
/tPQ+XU20zugj0xR/+7/08539+5znnMtNTEwJtMb3L/

```

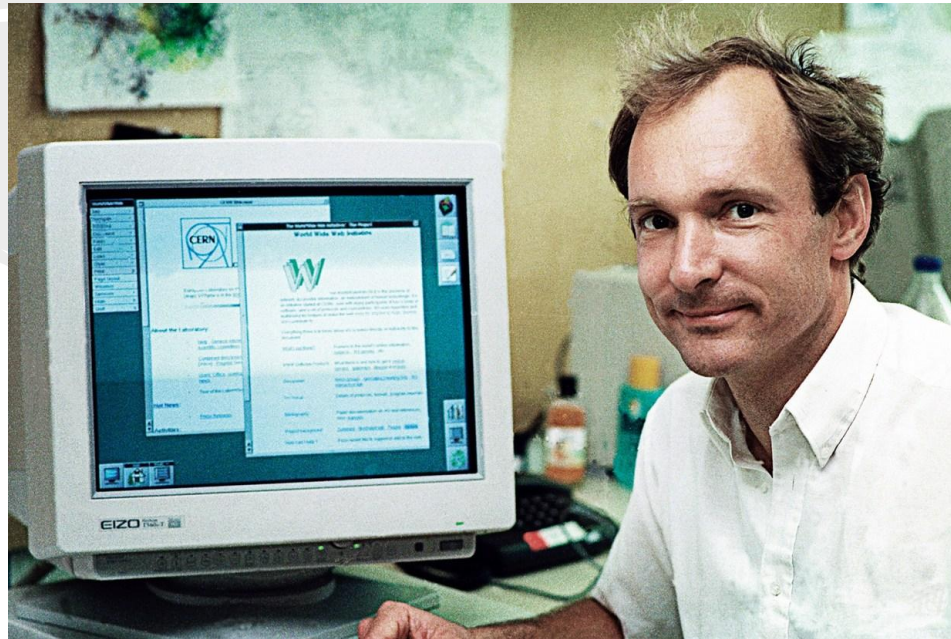
HTML History

HTML was first written in 1990 by Tim Berners-Lee, a contractor at CERN.

It included 18 tags, 11 of which are still in use.

HTML 2.0 was completed in 1995 and was the first version to be treated as a standard for future development.

Berners-Lee is now the director of the
World Wide Web Consortium (W₃C).



What is CSS?

Cascading Style Sheets (CSS) is a style sheet language used for describing the look and formatting of a document written in a markup language.

[Google](#)

- CSS stands for Cascading Style Sheets
- CSS defines how HTML elements are to be displayed
- Styles were added to HTML 4.0 to solve a problem
- CSS saves a lot of work
- External Style Sheets are stored in CSS files

[W3Schools](#)

CSS History

CSS was first proposed by Håkon Wium Lie in 1994 and came out as CSS1 in 1996, with the help of co-creator Bert Bos.

CSS2 was created in 1997 and published as the recommended standard in 1998.

CSS3 started development in 1998 and didn't become standard until very recently.

Bert Bos is now the staff contact for the W3C CSS Working Group.

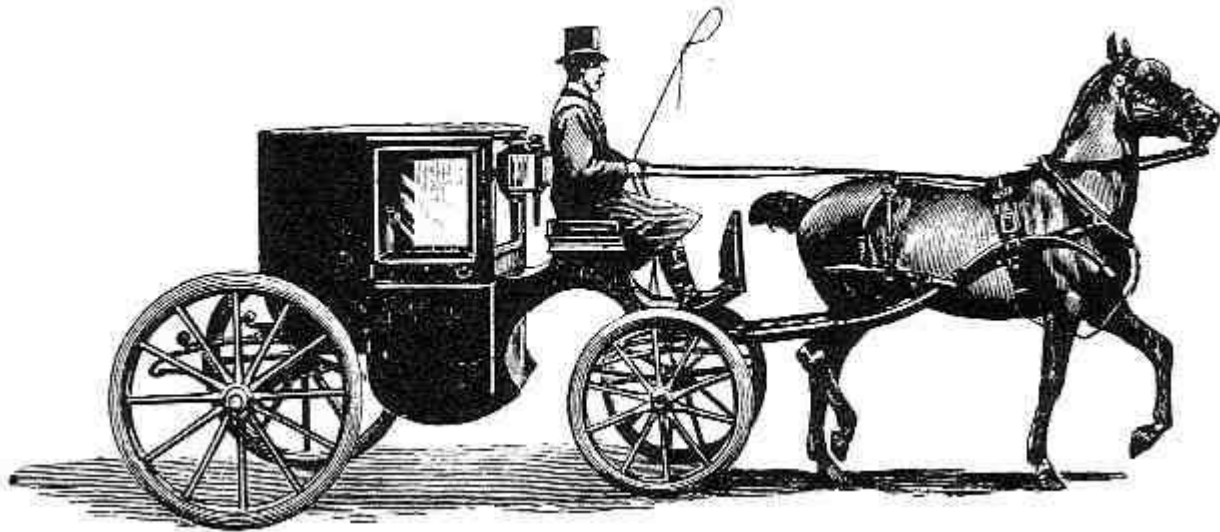


Håkon Wium Lie is now the Chief Technology Officer at Opera.



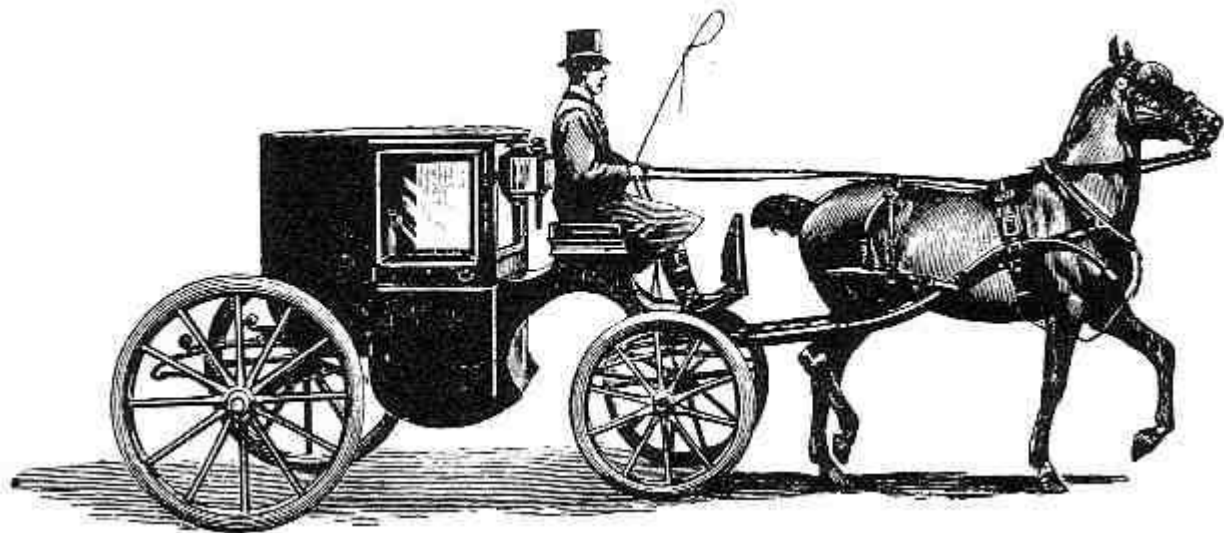
HTML & CSS

The two go together like a horse and carriage.



HTML & CSS

The two go together like a horse and carriage.



(you can't have one without the other)

HTML & CSS

HTML is the framing & drywall



CSS is the paint and wall art



Editors

Sublime Text: www.sublimetext.com

TextWrangler: barebones.com/products/textwrangler/download.html

NotePad++: notepad-plus-plus.org

Coda: panic.com/coda

TextEdit: This comes with OSX (not ideal)

NotePad: This comes with Windows (not ideal)

Web Developer Tools

Chrome Developer Tools

Firefox Developer Tools

Firefox Firebug

Safari Dev Tools

IE Developer Toolbar

Let's Get Some Files!

Grab the starter templates:

github.com/weyakin/intro-html-css

Let's Look at HTML

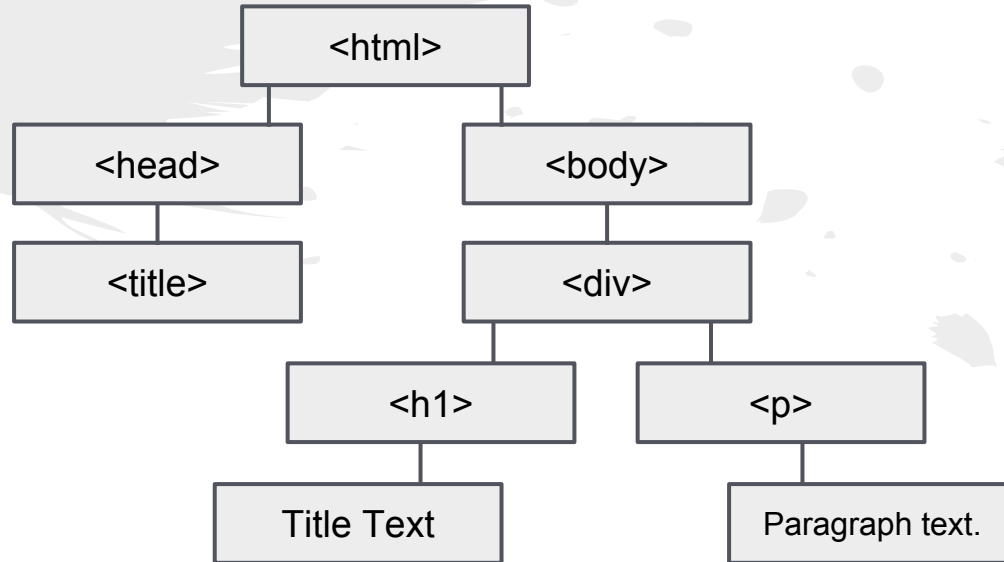
Open these Files:

index.html

basictags.html

The DOM Tree:

Document Object Model



Let's write HTML!

Write a header tag.

Write a paragraph tag.

Be sure to open and close your tags!

Let's Look at CSS

Open these Files:

styles/main.css

styles/basicstyles.css

Anatomy of CSS

Selector

- class (.classname)
- ID (#idname)
- object (h1)

Property

- Example: font-family

Value

- Example: arial, sans-serif

Anatomy of CSS

- Selectors contain {properties inside of curly braces}
- Properties have a colon after them:
- Always end your value with a semicolon;

```
.classname {  
  color:#ffffff;  
}
```

```
#idname {  
  font-family:arial;  
}
```

```
h1 {  
  font-size:1.5em;  
}
```

Let's write CSS!

Write a **Selector**.

Write a **Property**.

Write a **Value**.

Put them all together with curly braces, colons, and semicolons!

Put Them Together Now!

Give your header tag a class:

```
<h1 class="yourclass"></h1>
```

Give your header some style:

```
h1.yourclass {  
  font-size:2em;  
  font-family:arial, helvetica, sans-serif;  
  color:#800000;  
}
```


Let's Make a Header!

Use the HTML5 `<header>` tag:

```
<header></header>
```

Give your header two divs (left and right):

```
<header>  
  <div id="header-left"></div>  
  <div id="header-right"></div>  
</header>
```

Let's Make a Header!

Give your divs some content:

```
<header>
  <div id="header-left">
    
  </div>
  <div id="header-right">
    <h1>Welcome to My Website</h1>
  </div>
</header>
```

Let's Make a Header!

Let's give them styles:

```
header {  
    width:100%;  
    max-width:1200px;  
    margin:auto;  
    display:block;  
}  
#header-left {  
    width:30%;  
    float:left;  
    display:block;  
}
```

Let's Make a Header!

Let's give them styles:

```
#header-left img {  
    width:100%;  
    height:auto;  
}  
#header-right {  
    width:70%;  
    float:right;  
    display:block;  
}  
#header-right h1 {  
    font-size:2.5em;  
    color:#b42c2c;  
    font-family:Georgia, Times, Serif;  
}
```

How Does That Look?

Let's adjust accordingly.

- Check padding.
- Check alignment.
- Check for clearing (you might need a clear div).

Experiment!

The most important part of learning CSS and HTML is to experiment.

Have fun! Play with the tools and learn.

Learning Resources:

Code Academy

W3Schools

TutsPlus

O'Reilly Handbooks & Pocket Guides

Women's Coding Collective

Holyoke Codes

General Assembly

Reference Resources:

W3Schools CSS Reference

W3Schools HTML Reference

StackOverflow (for trouble-shooting)

O'Reilly CSS Pocket Reference

O'Reilly HTML Pocket Reference

Closing Questions?



THANK YOU!

 @weyakin

 facebook.com/weyakindesigns

www.commonmedia.com

www.weyakindesigns.com