

# HTML & CSS for Library Professionals

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# Today's workshop

— — —

- X-Ray a webpage *Hands-on*
- Explanation: What's HTML? What's CSS?
- 10 basic tags in HTML *Hands-on*
- 10 basic properties in CSS *Hands-on*
- **Break!**
- Customizing LibGuides *Hands-on*
- Make your own page *Hands-on (if time)*

# After today, you will...

— — —

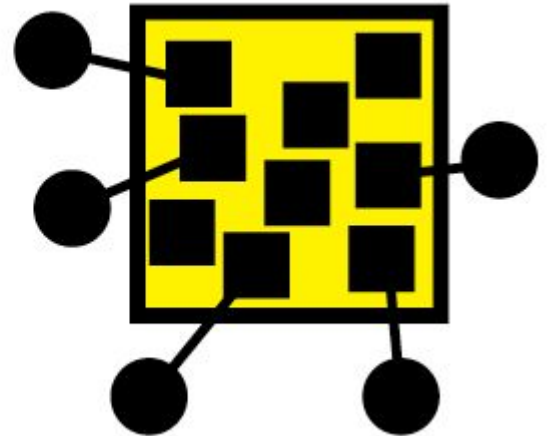
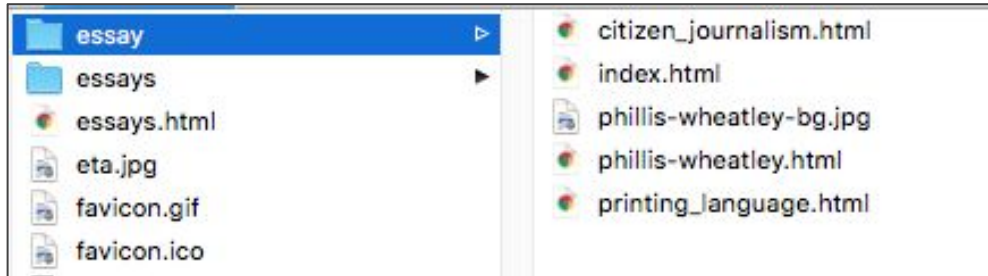
- Have a sense of how web pages work
- Be able to talk about HTML and CSS with confidence
- Be able to make blog posts and LibGuides prettier with behind-the-scenes code

Open Firefox and  
go to [goggles.mozilla.org](https://goggles.mozilla.org)

# What IS a website?

A folder of files!

Sometimes these files link to other files that live outside that folder.



# HTML + CSS

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HTML is used for  
**structuring** a page.

```
<p>Hello.</p><p>Goodbye.</p>
```

↓

Hello.

Goodbye.

CSS is using for  
**styling** a page.

```
<p style="color:red">Hello.</p><p  
style="color:blue"> Goodbye.</p>
```

↓

Hello.

Goodbye.

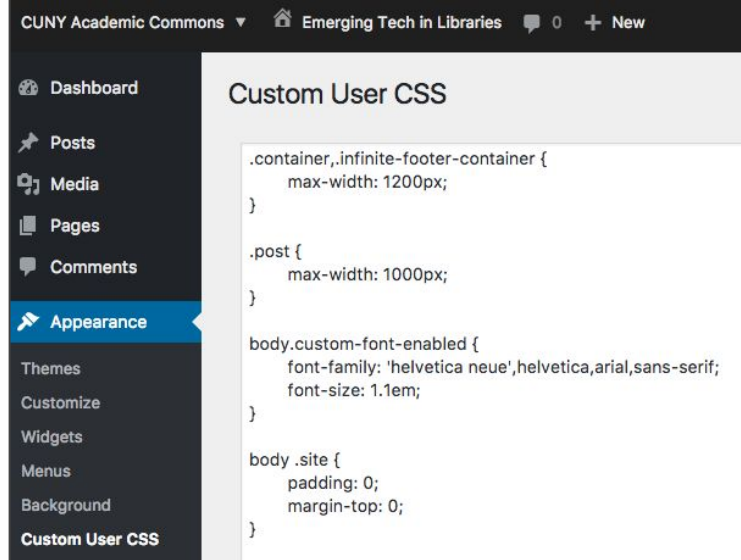
# Most of the time...

— — —

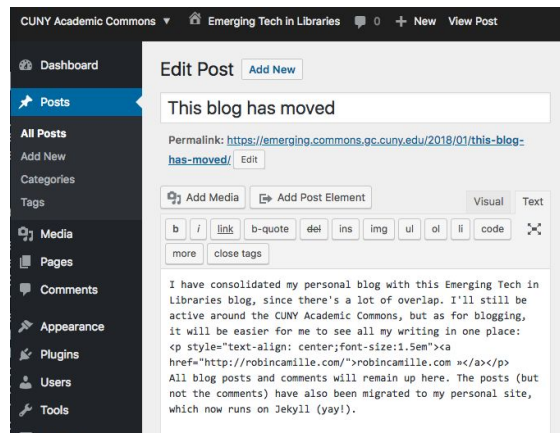
When you make a website, you will almost always use a pre-built system, like WordPress or LibGuides.

**HTML & CSS empower you to customize your post, page, or entire website!**

WordPress custom CSS in one post →



↑ WordPress site-wide custom CSS page



## Download starter pack

[http://bit.ly/html\\_lib](http://bit.ly/html_lib)

Downloads a .ZIP with all the files you'll need today!

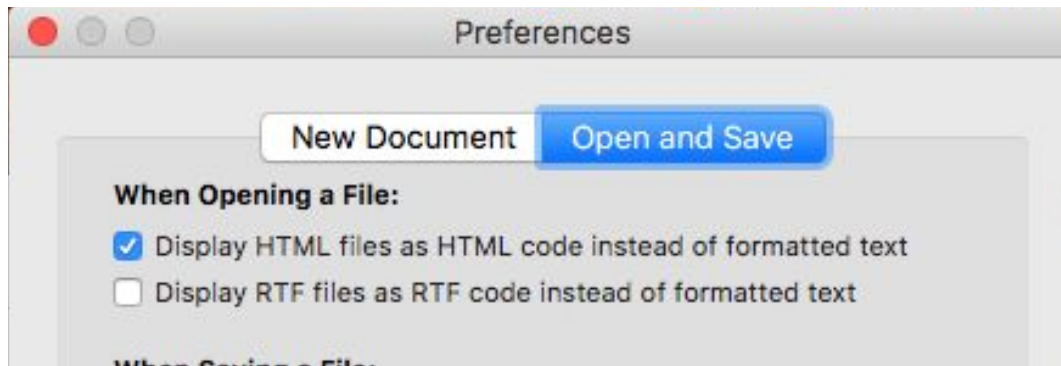


# If you're on a Mac...

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Configure TextEdit to show HTML

1. Open TextEdit
2. TextEdit > Preferences
3. Check first box:

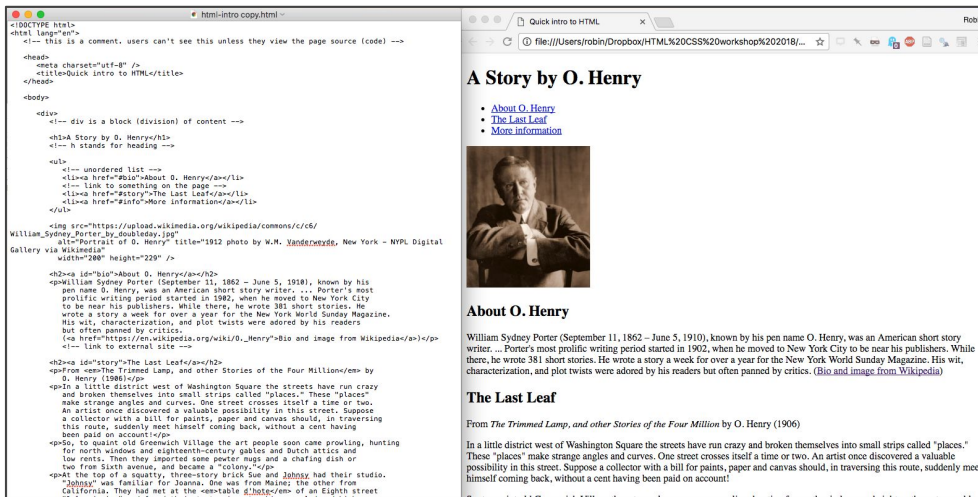


# HTML basics

Open the `1_basic-html/` folder

Open `html-intro.html` in Notepad (Windows) or TextEdit (Mac)

AND open `html-intro.html` in your browser



# If you're on Windows...

— — —

1. Open the .html file in Notepad
2. Copy & paste into Word
3. Copy & paste back into Notepad

Ta-da! Line breaks!

# HTML basics: the syntax

— — —

tags closing tags

**<p><em>I love libraries!</em></p>**

content

**I love libraries!**

# HTML basics: <head>

---

Invisible information the page needs to function properly

Contains the <title> tag

# HTML basics: <body>

---

The visible part of the page – what's displayed

# HTML basics: <h1>

— — —

<h1> Main title (there can only be one)

<h2> Subtitle

<h3> Subsubtitle

<h4> Subsubsubtitle

<h5> Subsubsubsubtitle

<h6> Subsubsubsubsubtitle

# HTML basics: <div>

---

Basic building block: a container, a box

Later, we'll do cool things with divs



# HTML basics: <img>

---

Image!

```
  *self-closing tag!
```

# HTML basics: <ul>, <ol>, and <li>

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<ul>    unordered list (bullet points)

<ol>    ordered list (numbered)

<li>    list item

# HTML basics: <a>

---

Link!

```
<a href="http://nytimes.com" title="Read more">
```

See more at the New York Times

```
</a>
```

# HTML basics: <p>

— — —

Paragraph!

The workhorse of web text.

Paragraphs display spaced apart by default.

# HTML basics: <em>

— — —

Emphasis!

This used to be <i> for Italics.

# HTML basics: <strong>

---

Strong emphasis!

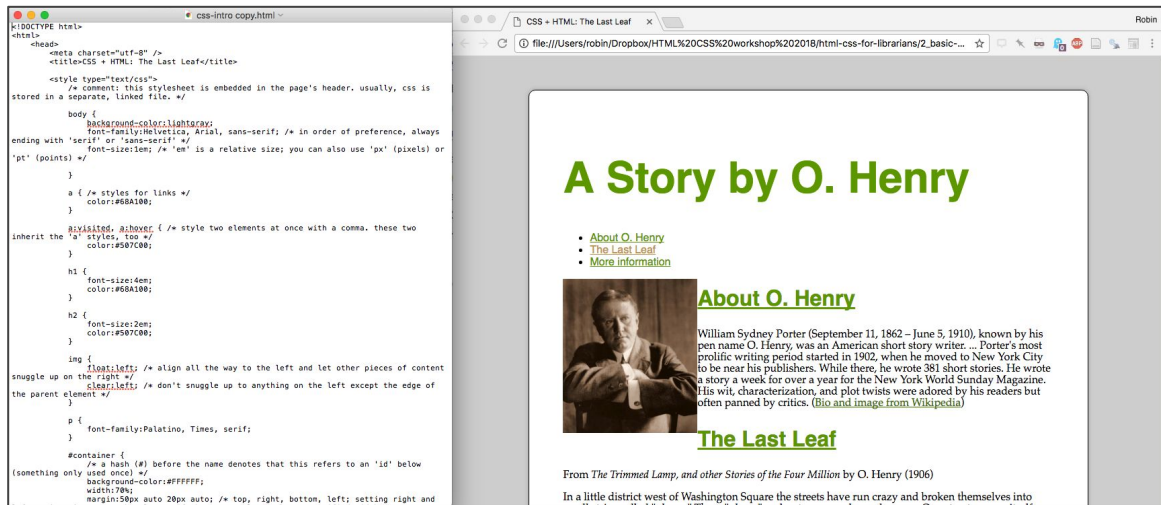
This used to be <b> for bold.

# CSS basics

Open the `2_basic-css/` folder

Open `css-intro.html` in Notepad (Windows) or TextEdit (Mac)

AND open `css-intro.html` in your browser



# CSS basics: the syntax

— — —

**a: hover** {

selector      state      curly braces

**Color: hotpink;**

semicolon separates properties

**Font-family: arial, sans-serif;**

}

property

value



# Attaching CSS styles to HTML structures

---

```
<html>
  <head>
    <style type="text/css">
      a {color:blue}
    </style>
  </head>
  <body>
    <a href="http://cuny.edu">CUNY</a>
  </body>
</html>
```

# CSS basics: background-color

— — —

The background of the thing it's styling (page body, div, ...)

```
background-color:lightgray;
```

```
background-color:#FFFFFF;
```

# Side note: colors!

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## Limited set of web color names

Most useful for quick test edits

E.g.: yellow lightyellow yellowchiffon khaki

## Hex color codes

Most precise

E.g.: #FFFF00 #40E0D0 #670088 #C89F57

My fave color picker: [htmlcolorcodes.com](http://htmlcolorcodes.com)

# CSS basics: color

— — —

Font color!

```
color:#68A100;
```

```
color:cadetblue;
```

# CSS basics: font-family

---

The font you want!

```
font-family:Helvetica, Arial, sans-serif;
```

In order of preference, always ending with 'serif' or 'sans-serif'

# CSS basics: font-size

— — —

Self-explanatory!

```
font-size: 12px;
```

```
font-size: 1.2em;
```

# Side note: sizes!

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## **Pixels: px**

- Basic units of screen measurement
- A typical desktop:  
1366 x 768 px

## **Em: em**

- Resizable text
- 1em = current font size

## **Percentage: %**

- Best for creating page structure

# CSS basics: width

— — —

Self-explanatory!

```
width: 100px;
```

```
width: 90%;
```

% of the thing it's inside of



# CSS basics: border

---

Self-explanatory! Lots of bells and whistles:

```
border:10px;
```

```
border-color:black;
```

```
border-style:dotted;
```

```
border:10px dotted black;
```

```
border-radius:3px;
```

# CSS basics: padding

---

Generally, the margin around an image or area of text,  
*inside the border.*

`padding:10px;`                      10px padding all around

`padding-top:10px;`                10px padding just on top

`padding:10px 10px 0px 0px;`  
                  top        right    bottom left

# CSS basics: margin

— — —

Generally, the margin around an image or area of text,  
*outside the border.*

```
margin:10px;
```

```
margin-top:20px;
```

```
margin:20px 10px 10px 0px;
```

# CSS basics: float

— — —

Left- or right-align something, such that the rest of the content flows around it.

## Fiction



### *Exit West* by Mohsin Hamid

In a country teetering on the brink of civil war, two young people meet — sensual, fiercely independent Nadia and gentle, restrained Saeed. They embark on a furtive love affair, and are soon cloistered in a premature intimacy by the unrest roiling their city. When it explodes, turning familiar streets into a patchwork of checkpoints and bomb blasts, they begin to hear whispers about doors — doors that can whisk people far away, if

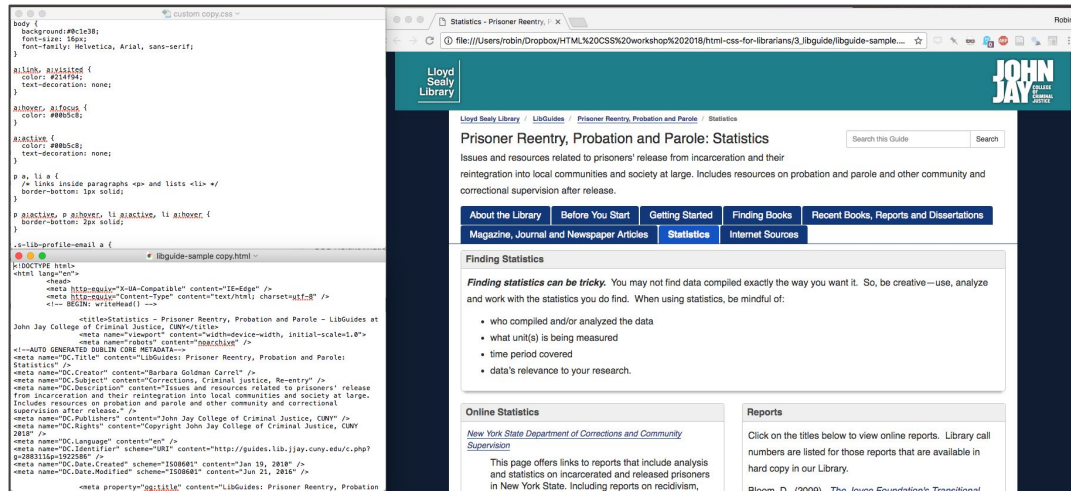
# Customizing LibGuides

Open the `3_libguide/` folder

Open `custom.css` in Notepad (Windows) or TextEdit (Mac)

AND open `libguide-sample.html` in Notepad (Windows) or TextEdit (Mac)

AND open `libguide-sample.html`  
in your browser



# Class & ID selectors

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**ID:** Unique label

HTML: `<div id="story">`

CSS: `#story { width:500px }`

**Class:** Reusable label

HTML: `<div class="boxtitle">`

CSS: `.boxtitle { color:MediumAquaMarine }`

## Look & Feel

[Header / Footer / Tabs / Boxes](#)[Custom JS/CSS](#)[Page Layout ▾](#)[Language Options](#)[System Screenshot](#)

Provide your own HTML, Javascript and CSS code to fully customize your system.

### Custom JS/CSS Code

#### JS/CSS Code

```
<style type="text/css" media="all">

body {
background:#0c1e38;
font: 16px/1.5 Helvetica, Arial, sans-serif;
}

a:link, a:visited {
color: #214f94;
text-decoration: none;
}

a:hover, a:focus {
color: #00b5c8;
}

a:active {
```

Inserted into the <HEAD> section of all pages.

Add custom META / STYLE / SCRIPT code and/or include CSS / JS files here. If adding custom code, remember to wrap your code in <style> or <script> tags.

Need a place to upload CSS / JS files related to your customization? See the Add Custom JS/CSS Files section below.

[Save](#)

# Bonus: make your own page!

— — —

Open the `4_blank/` folder

Open `page.html` in Notepad (Windows) or TextEdit (Mac)

AND open `style.css` in Notepad (Windows) or TextEdit (Mac)

AND open `page.html` in your browser



# Blank page inspiration

— — —

- About Me
- Photo gallery using Wikimedia photos
- List of favorite books with links to catalog entries
- New York Birdwatchers Club
- A story from Project Gutenberg

# Show off your page

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Email your HTML and CSS files to:

`rdvs18@gmail.com`

# Thank you!

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See all presentation  
materials at  
[robincamille.com](http://robincamille.com)

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