
Intro to HTML and CSS Workshop

A Ming Lei Presentation

What will you learn today?

**Structure and
Syntax of HTML
and CSS**

~20 min

**Important HTML
Elements and
CSS Properties**

~20 min

**How to use
common libraries
and tools**

~ 15 min



Why does this matter?

→ **Widely-used**

HTML and CSS are used in every website!

→ **Foundational**

HTML and CSS are the foundation of more complicated skills you may learn later.

→ **Practical**

Being able to deploy and share your website helps you success on hackathon!

TCST

Home

Link

Disabled

Dropdown ▾

Search

Search

TTNY College Survival Tools

Welcome to the TTNy College Survival Tools! We aim to provide our customers with amazing tools to help you resolve all issues encountered at TTNy College.

Learn more »

Student

Join 200 all-female and femme non-binary students from across the country at Queens College to uncover the magic of technology in just 36 hours.

View details »


Faculty

Our technology team is responsible for creating both the TechTogether live event website and core website, managing registration, setting up Devpost, organizing judging procedures, creating all application forms and email automations, building the resume portal for sponsors, and coordinating with wifi/electricity providers.

Preview »

HTML+CSS

HTML



© 1990-2019 The TTNy College Survival Tools Authors. [Github](#)

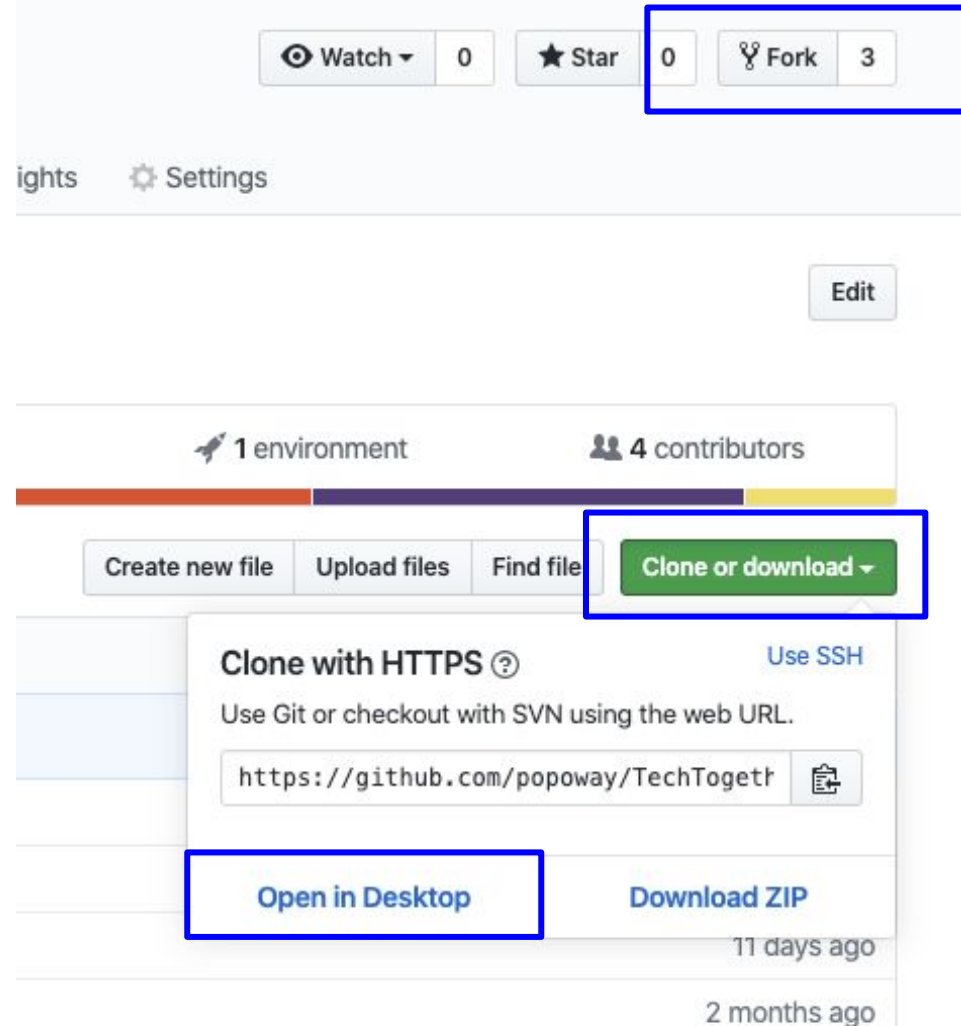
What are we building today?

To preview the what you'll be building, go to this URL:

ming.fyi/ttny2

Remix the Starter Code

1. Go to **ming.fyi/ttny1**
2. Click on “fork” to make your own copy of the code
3. Click on “Clone or download” -> “Open in Desktop” to download code to your local machine
4. Alternatively, “git clone”

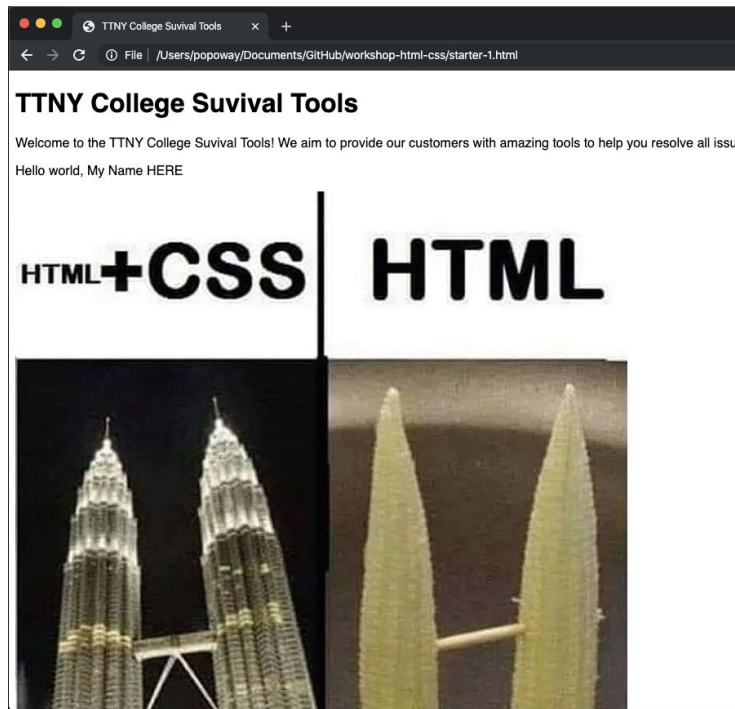


Remix the Starter Code

1. Open starter-1.html in your favorite text editor (no Notepad or TextEdit please)
2. Open the same file in Chrome.

```
1  <!DOCTYPE html>
2  <html lang="en" dir="ltr">
3    <head>
4      <meta charset="utf-8">
5      <title>TTNY College Survival Tools</title>
6    </head>
7    <body>
8      <h1>TTNY College Survival Tools</h1>
9      <p>Welcome to the TTNY College Survival Tools! We aim
10     <p>Hello world, My Name HERE</p>
11     
12   </body>
13 </html>
```

Remix the Starter Code



—

That was what your website
looks like right now.
Let's change it!

Remix the Starter Code

1. In the tab with your code, replace Your Name Here (line 10) with your name.
2. Reload the page (Ctrl + R or Cmd + R) to see the changes!

```
1  <!DOCTYPE html>
2  <html lang="en" dir="ltr">
3    <head>
4      <meta charset="utf-8">
5      <title>TTNY College Survival Tools</title>
6    </head>
7    <body>
8      <h1>TTNY College Survival Tools</h1>
9      <p>Welcome to the TTNY College Survival Tools! We aim
10     <p>Hello world, My Name HERE</p>
11     
12   </body>
13 </html>
```

Remix the Starter Code

1. Make sure the website says your name, not my name!

TTNY College Survival Tools

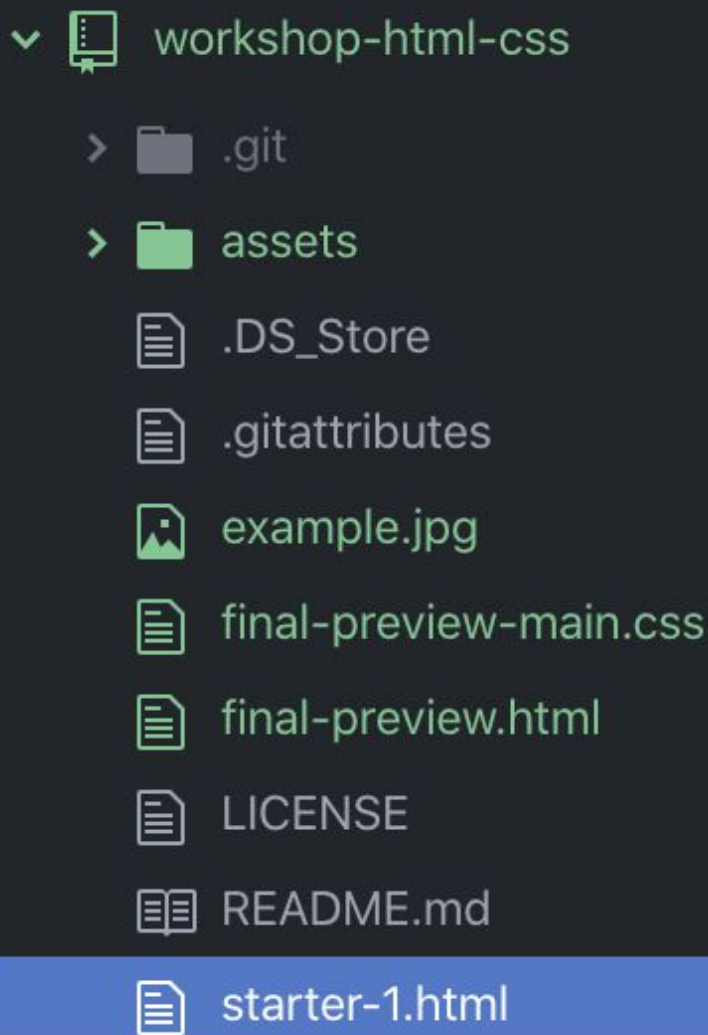
Welcome to the TTNY College Survival Tools! We aim to provide o

Hello world, My Name is Ming Lei.

HTML+CSS |

Just one! Your own.

Let's dive into the project to understand what you just did!



What are all these files?

assets/ – a folder where you can store images you want on your page

README.md – information about your website

style.css – a file that contains the main styling for your website (you will be editing this file)

What is HTML?

HTML is the skeleton of every webpage on the internet.

HTML (hypertext markup language): HTML is the code that structures webpages.

```
1  <!DOCTYPE html>
2  <html>
3    <head>
4      <meta charset="utf-8">
5      <title>Title of Your Website</title>
6    </head>
7    <body>
8      // Body Content
9    </body>
10 </html>
```



HTML Syntax

Most HTML elements consist of an opening tag, content, and a closing tag. Important exceptions include the `<link>` and `` tags, which are called "self-closing" tags.

`<body>` `/* Content */` `</body>`



Opening Tag

Content

Closing Tag

Every website needs the code below

What does this code mean?

Line 1: Specifies that the code below is HTML.

Line 2: This is an opening `<html>` tag.

Line 3: The `<head>` tag contains information about your website. This isn't visible to users.



```
1  <!DOCTYPE html>
2  <html>
3    <head>
4      <meta charset="utf-8">
5      <title>Title of Your Website</title>
6    </head>
7    <body>
8      // Body Content
9    </body>
10  </html>
```

Every website needs the code below

What does this code mean?

Line 5: This is the title of your website that users see in the browser tab

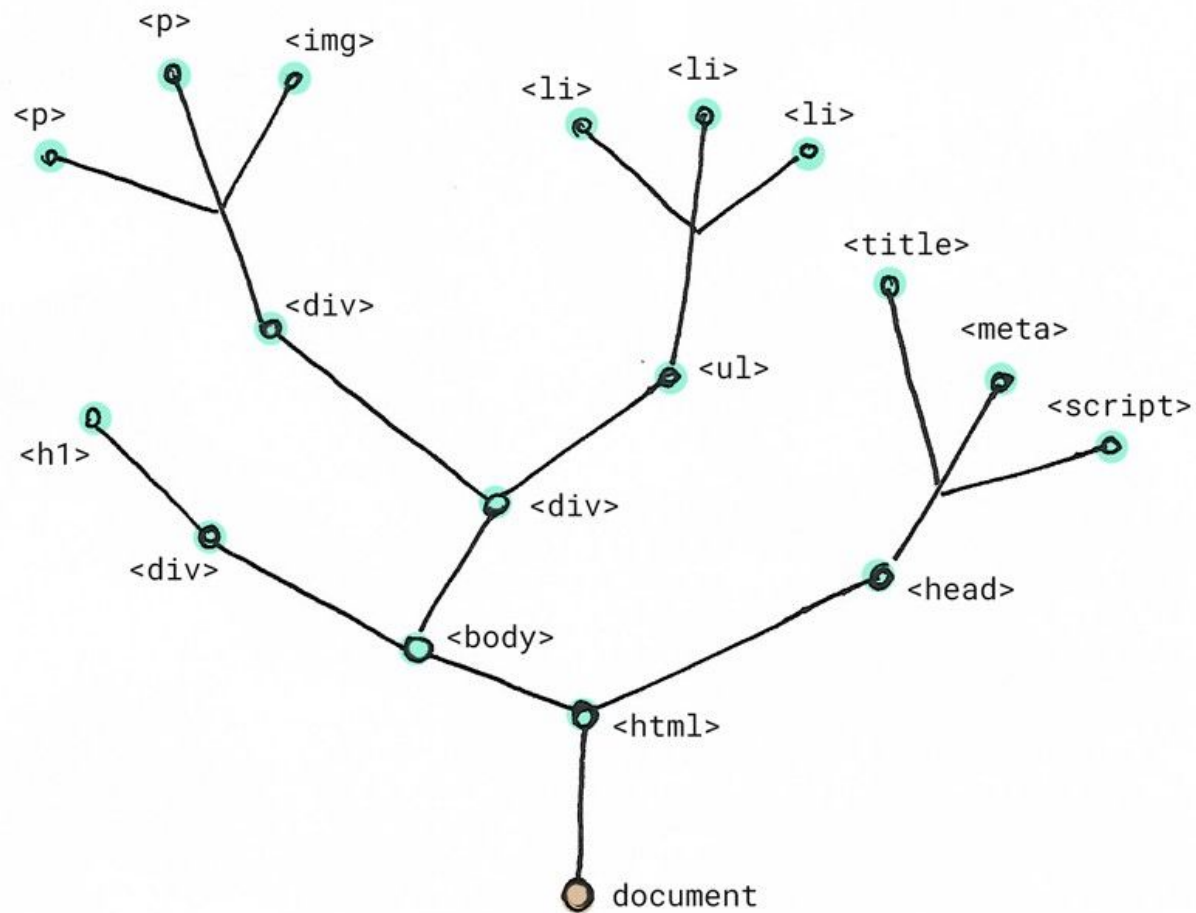
Line 6: This is a closing `</head>` tag. This ends element.

Line 7-10: This is the `<body>` of your website.

Line 11: This tag closes your `<html>` element.



```
1  <!DOCTYPE html>
2  <html>
3    <head>
4      <meta charset="utf-8">
5      <title>Title of Your Website</title>
6    </head>
7    <body>
8      // Body Content
9    </body>
10  </html>
```

final-preview.html

What does this code mean?

<meta> tags contain information about how the page should be rendered.

<Link> tags connect your HTML to other files.

style.css – our main stylesheet

cdnjs.cloudflare.com – allows us to use an layout library called Bootstrap

final-preview.html	final-preview-main.css	starter-1.html
<pre>1 <!doctype html> 2 <html lang="en"> 3 <head> 4 <<meta charset="utf-8"> 5 <<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no"> 6 <<meta name="description" content="The HTML/CSS Workshop Website Preview"> 7 <<meta name="author" content="Ming Lei"> 8 <<title>TTNY College Survival Tools</title> 9 </head> 10 <<!-- Bootstrap core CSS --> 11 <<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/4. 12 </link> 13 <<!-- Custom styles for this template --> 14 <<link rel="stylesheet" href="final-preview-main.css"> 15 </head></pre>		

final-preview.html

What does this code mean?

All of the visible content of our website is between the opening and closing **<body>** tags.


- `<h1>` is a header tag. These range from `<h1>` to `<h6>`.
- `<p>` is a paragraph tag.

```
7      ···<body>↵
8      ····<h1>TTNY College Survival Tools</h1>↵
9      ····<p>Welcome to the TTNY College Survival Tools
10     ····<p>Hello world, My Name HERE</p>↵
11     ····↵
12     ···</body>|
13     </html>↵
```

HTML Tag Cheatsheet

<https://www.w3schools.com/tags/default.asp>

Tag	Description
<u><!--...--></u>	Defines a comment
<u><!DOCTYPE></u>	Defines the document type
<u><a></u>	Defines a hyperlink
<u><abbr></u>	Defines an abbreviation or an acronym
<u><acronym></u>	Not supported in HTML5. Use <u><abbr></u> Defines an acronym
<u><address></u>	Defines contact information for the page
<u><applet></u>	Not supported in HTML5. Use <u><embed></u> Defines an embedded applet
<u><area></u>	Defines an area inside an image-map
<u><article></u>	Defines an article
<u><aside></u>	Defines content aside from the page
<u><audio></u>	Defines sound content

A hand holding a smartphone is visible in the background, slightly out of focus. The phone's screen shows some text, but it is not legible. The overall image has a dark, reddish-brown tint.

**That was a deep
dive, but...**

**How do we style
HTML elements?**

Using CSS!



CSS Syntax

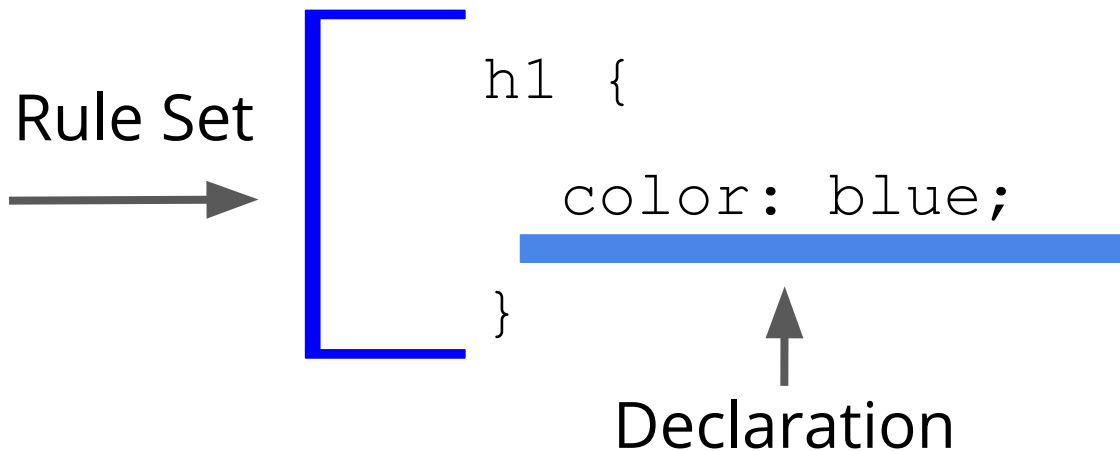
- The selector specifies which elements to style.
- A property is a characteristic of an element we can set.
- A value is how that property should appear.

Selector → `h1 {`

```
    color: blue;  
    }  
    ↑      ↑  
Property Value
```

CSS Syntax

- A **value** and a **property** together are a **declaration**
- A **selector** and its **declarations** together make a **rule set**



CSS Properties Cheatsheet

<https://www.w3schools.com/cssref/default.asp>

Tag	Description
<u><!--...--></u>	Defines a comment
<u><!DOCTYPE></u>	Defines the document type
<u><a></u>	Defines a hyperlink
<u><abbr></u>	Defines an abbreviation or an acronym
<u><acronym></u>	Not supported in HTML5. Use <u><abbr></u> Defines an acronym
<u><address></u>	Defines contact information for the page
<u><applet></u>	Not supported in HTML5. Use <u><embed></u> Defines an embedded applet
<u><area></u>	Defines an area inside an image-map
<u><article></u>	Defines an article
<u><aside></u>	Defines content aside from the page
<u><audio></u>	Defines sound content

Customize your site!

Let's use what you've just learnt!

Customize your site!

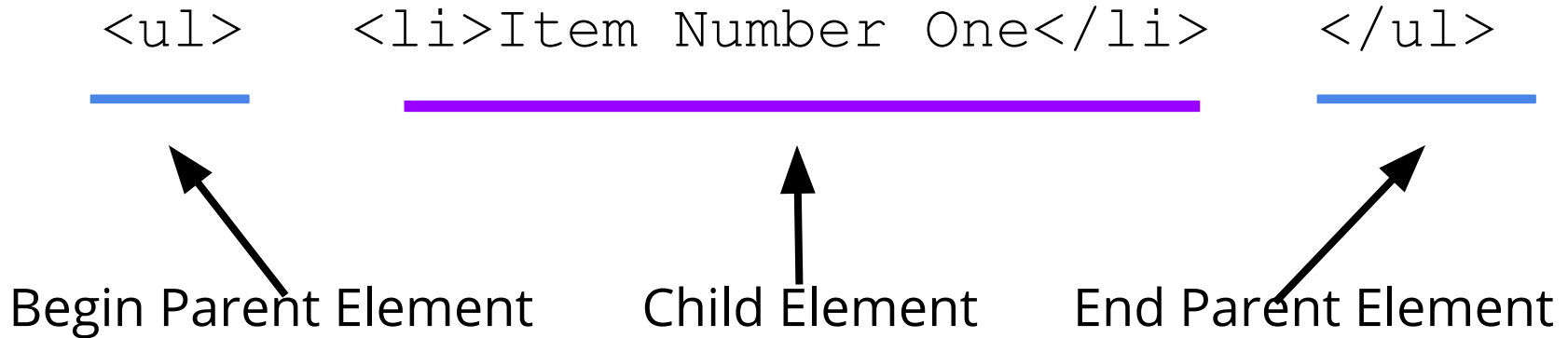
- Open starter-2.html
 - Add a Headline
 - Add an `<h2>` element after line 10
 - Add a `<p>` element on line 12. Add some information about yourself.
-

Customize your site!

- Add a `` element before ``. Leave it empty for now.
 - Inside the `` element, add 3 `` elements.
 - Inside each `` element, add an `<p>` element.
 - Inside each `<p>` element, list a project or accomplishment you'd like to highlight.
-

Elements Can Be Nested

HTML elements that are inside of other HTML elements are called **child** elements. The outer element is the **parent** element. `` elements are children of `` elements and `` elements.



Customize your site!

- Add another Image ``
 - Note: Your image might be huge. We'll fix this later.
-

Customize your site!

- Below the closing `` tag, add a `<footer>` element.
 - Inside the `<footer>` element, add an `<a>` tag.
 - Add an `href` attribute inside of the opening `<a>` tag. Set it equal to the URL of your LinkedIn profile.
 - Add `target="_blank"` inside the opening `<a>` tag as well.
-

Customize your site!

- Below the closing `` tag, add a `<footer>` element.
 - Inside the `<footer>` element, add an `<a>` tag.
 - Add an `href` attribute inside of the opening `<a>` tag. Set it equal to the URL of your LinkedIn profile.
 - Add `target="_blank"` inside the opening `<a>` tag as well.
-



Libraries & Tools

There are many great libraries out there for building website,, but here are a few:

→ **Font Awesome**

<https://fontawesome.com/>

→ **Bootstrap**

<https://getbootstrap.com/>

→ **fonts.google.com**

→ **Google Chrome DevTools**

→ **GitHub Pages**

<https://pages.github.com/>

