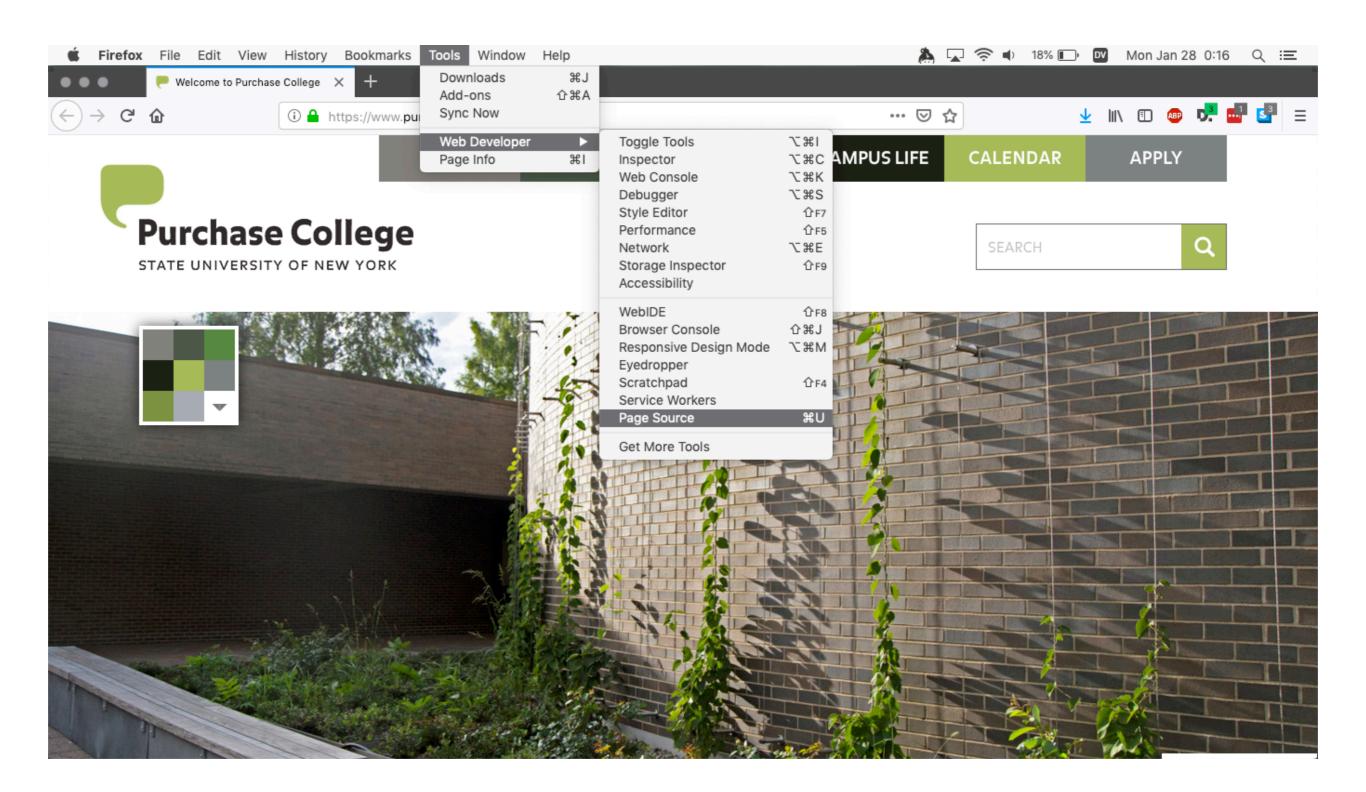
Hyper Text Markup Language

HTML is a markup language. It tells your browser how to structure the webpage.



HTML consists of a series of elements, which you use to enclose, or "mark up" different parts of the content to make it appear or act a certain way.

HTML Tags

```
tag = < + tag name + >
```

opening tag

closing tag

content

element

My cat is very curious.

My cat is very curious.

nested tags

The Document

```
<!DOCTYPE html>
<html>
    <head>
        <title>My Cool Page</title>
        </head>
        <body>
        </body>
        </html>
```

the HTML document

The doctype declaration tells the browser to interpret the page as HTML5.

The <html > tag is a wrapper that surrounds the entire document.

The <head> contains all the meta stuff you don't show on the page.

The <title> is what shows up on the tab (and in google search results).

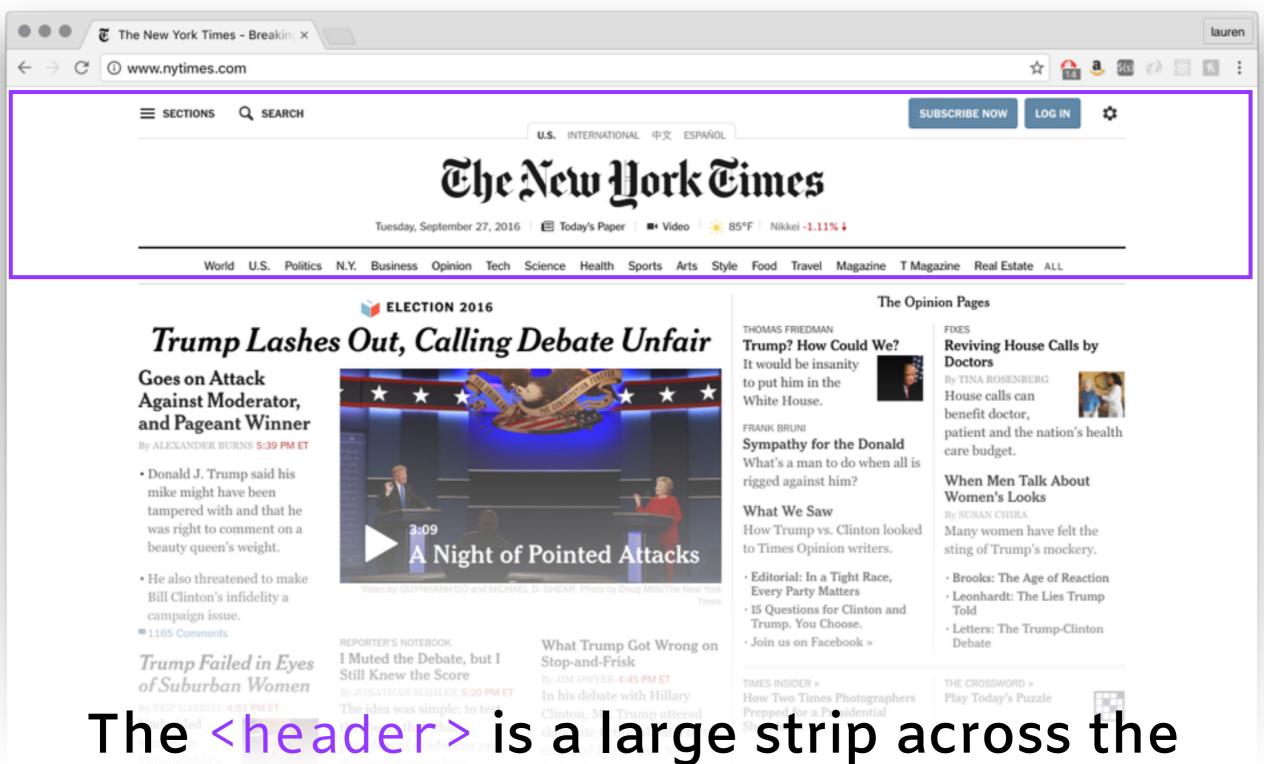
The <body> contains all the elements that are visible on the page.

```
<!DOCTYPE html>
<html>
    <head>
        <title>My Cool Page</title>
        </head>
        <body>

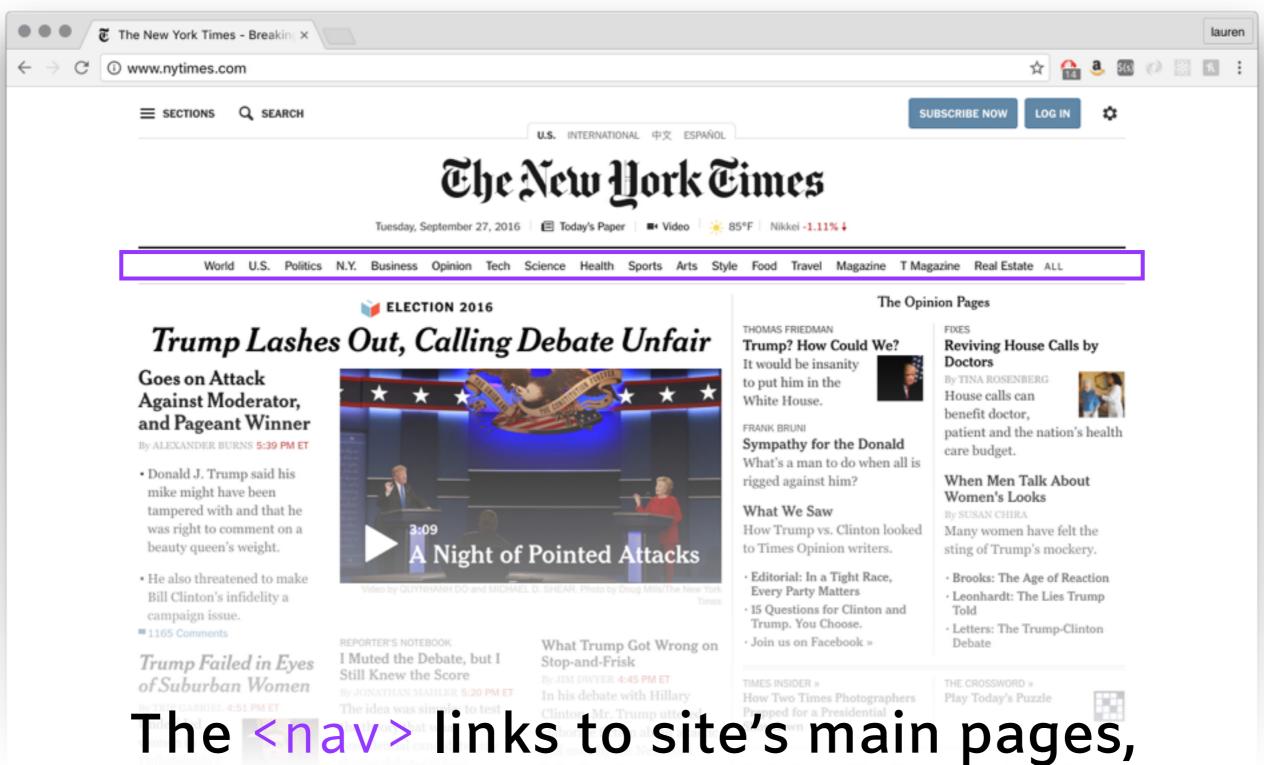
        </body>
</html>
```

The document has a tree structure. Elements are nested within each other. Use indentation to keep nesting clear.

Structural Tags



top of the page that contains title, logo, maybe navigation.



consistent across pages. It may be part of the header.

The <footer> bottom strip contains common, noncritical information.

World U n a Switch for Paris Shov utomakers Turn From D	6	Save the Rosenth	Date: Oct. 25: Andrew al: Gun Control and Gun		T Magazine Real Estate ALL
Ehe New York (Eimes				Go to Home Page
EWS	OPINION	ARTS	LIVING	LISTINGS & MORE	SUBSCRIBE
/orld I.S. lolitics I.Y. lusiness lech lcience lealth lports ducation bituaries loday's Paper	Today's Opinion Op-Ed Columnists Editorials Contributing Writers Op-Ed Contributors Opinionator Letters Sunday Review Taking Note Room for Debate Public Editor Video: Opinion	Today's Arts Art & Design Books Dance Movies Music N.Y.C. Events Guide Television Theater Video: Arts	Automobiles Crossword Food Education Fashion & Style Health Jobs Magazine N.Y.C. Events Guide Real Estate T Magazine Travel	Classifieds Tools & Services Times Topics Public Editor N.Y.C. Events Guide Blogs Multimedia Photography Video NYT Store Times Journeys Subscribe	☐ Home Delivery ☐ Digital Subscriptions ☐ Times Insider ☐ Crossword Email Newsletters Alerts Gift Subscriptions Corporate Subscriptions Education Rate Mobile Applications Replica Edition International New York Times

```
<!DOCTYPE html>
<html>
  <head>
    <title>My Cool Page</title>
  </head>
  <body>
    <header>
      Welcome to my cool page!
      <nav>Link1 Link2 Link3
    </header>
    <footer>
      Updated on September 27, 2016.
    </footer>
  </body>
</html>
```

There are over 100 tags. You don't need to know all of them.

https://webdesignfromscratch.com/html-css/html-tags/

```
<body>
    <h1>All About Cats</h1>
    This site is all about cats.
    <h2>Cat Anatomy</h2>
    Cats have a strong, flexible body.
    <h2>Cat Breeding</h2>
    Cats have a high breeding rate.
</body>
```

The header tags (<h1>, <h2>,...,<h6>)
are used for headings. The number is
based on hierarchy of important.

```
<body>
    <h1>All About Cats</h1>
    This site is all about cats.
    <h2>Cat Anatomy</h2>
    Cats have a strong, flexible body.
    <h2>Cat Breeding</h2>
    Cats have a high breeding rate.
</body>
```

The tag is used to enclose a paragraph of text.

<div>blah blah blah blah blah blah</div>

The <div> tag is the generic container for flow content, which does not inherently represent anything

<div>blah blah something
different blah blah</div>

The represents a span of text stylistically different from normal text

<article> encloses a block of related
content that makes sense on its own
 without the rest of the page.

<section> is similar to <article>, but it is more for grouping together a single part of the page that constitutes one single piece of functionality.

Styling Tags

My cat is very curious.

My cat is very curious.

The tag is used for bold text.

My cat is <i>very</i> curious.

My cat is very curious.

The < i > tag is used for italicized text.

My cat is very
curious.

My cat is very curious.

The
tag can be used to add a line break in the page.

All whitespace (line breaks, multiple spaces, tabs) is effectively collapsed into single spaces.

Lists

```
AppleAppleBananaGuava
```

- Apple
- Banana
- Guava

The tag creates an unordered list. It includes nested tags for list items.

```
     Apple
     Banana
     Guava
```

- 1. Apple
- 2. Banana
- 3. Guava

The
 tag creates an ordered list. It includes nested tags for list items.

Images

The tag represents an image on the page. It does not have a closing tag.

Attributes add additional information to an HTML tag. In this case, the src="" attribute specifies the image file to display.

The link target can be a "relative location" (meaning it includes the path and file relative to the location of index.html.

Or the link target can be a "fully qualified URL" (meaning it includes the HTTP://)

```
<img src="rainbow.jpg" width="100"
height="200">
```

The width and height attributes specifies the width and height in pixels to display the image at. They are optional.

```
<img src="rainbow.jpg" width="100"
height="200" alt="picture of rainbow">
```

The alt attributes specifies alt text to be displayed if the user chooses not to display images, or if the browser cannot display the image because it is invalid.

Hyperlinks

my link

The <a> tag is used to create a hyperlink.

my link

The href attribute specifies where the link directs to.

```
<a href="http://example.com">my link</a>
<a href="post1.html">my first post</a>
```

The link target can be a fully qualified url or a relative location.