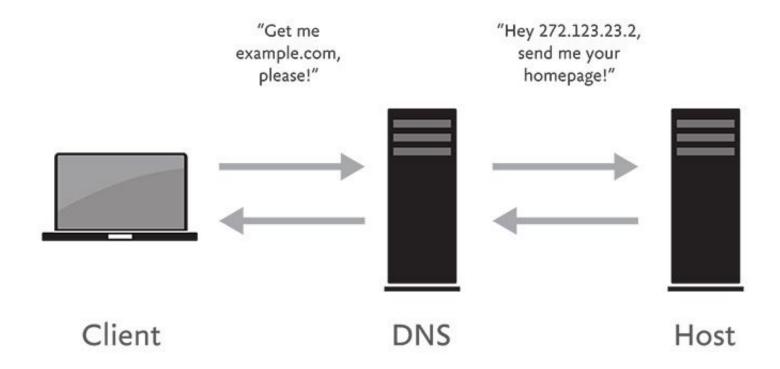
Navigation and Related Concepts

1399 Web Development

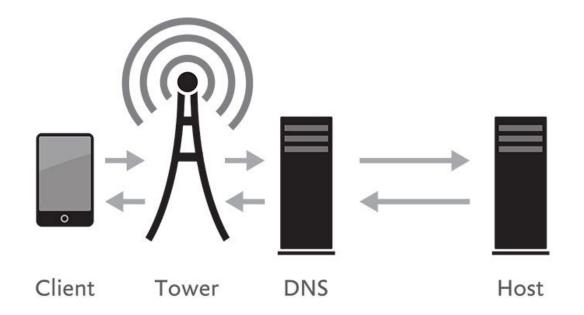
A note on adding plugins

The foundation of a web connection



The foundation of a web connection

The addition of the tower can lead to lag times of 2 seconds or more. Considering that users can spot, and are often bothered by, lags of 300 milliseconds. LTE helps for when users aren't on fast WiFi, but we can't assume everyone is on LTE.



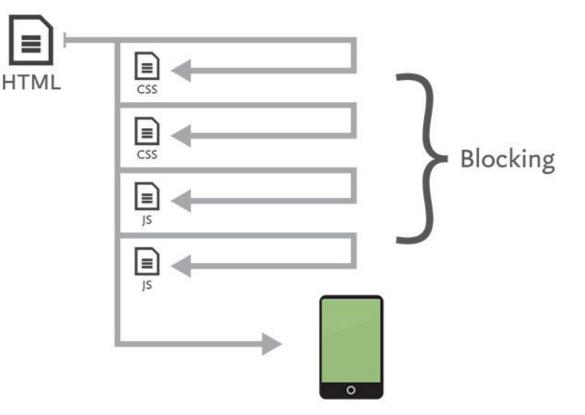
Loading code

A page won't load until all the resources have also loaded:

- CSS should come BEFORE the page content
- JS should come AFTER the page content

This helps avoid **FOUC** - flash of unstyled content.

Images are resources, but not blocked nor crucial to the DOM (Document Object Model) so they will load whenever they appear in the code.



overflow: hidden;

overflow: visible;

All tags are boxes, right?

overflow: visible; simply tells the browser to let any content that is outside of the bounding box still be seen.

This is not ideal, and if you find your content does this, it's probably because you set a hard-coded height or width.

.box { overflow: visible; }



WEBSITE MONITORING SO SIMPLE A YETI CAN DO IT.



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Vestibulum erat wisi, condimentum sed, commodo vitae, ornare sit amet, wisi. Aenean fermentum, elit eget tincidunt condimentum, eros ipsum rutrum orci, sagittis tempus lacus enim ac dui. Donec non enim in turpis pulvinar facilisis. Ut felis. Praesent dapibus, neque id cursus faucibus, tortor neque egestas augue, eu vulputate magna eros eu erat. Aliqua

The content that extends beyond the box is visible and renders outside the box.

https://css-tricks.com/the-css-overflow-property/

overflow: hidden;

overflow: hidden; keeps this from happening. Hidden content is NOT viewable -- be careful of hiding important text.

As in our navbar, it's mainly used to **self clear floats**.

Ex. Navbars, fancy rollover effects...

.box { overflow: hidden; }



WEBSITE MONITORING SO SIMPLE A YETI CAN DO F he —

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Any content that extends beyond the box is completely hidden

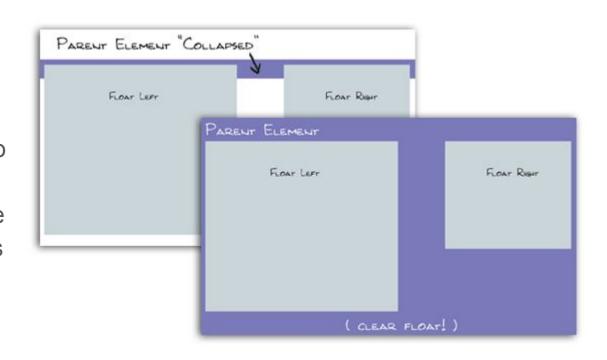
https://css-tricks.com/the-css-overflow-property/

overflow: hidden;

Self clearing floats:

Applying **overflow:** hidden to an element allows that element to expand to hold the height of the floated elements inside of it *instead of collapsing.*

This assumes a height is not set on that element.



visibility: hidden;

display: none;

versus

visibility: hidden; versus display: none;

The visibility property in CSS can hide an element *without changing the layout*.

```
p {
    visibility: hidden;
}
```

A hidden element can (1) still have visible children, and (2) will still take up space on the screen.

https://css-tricks.com/almanac/properties/v/visibility/

visibility: hidden; versus display: none;

```
div {
 display: inline;
                       /* Default of all elements, unless UA stylesheet overrides */
 display: inline-block; /* Characteristics of block, but sits on a line */
 display: block;
                       /* UA stylesheet makes things like <div> and
                          <section> block */
 display: run-in;
                        /* Not particularly well supported or common */
 display: none;
                       /* Hide */
 /* ALSO, display: table (whole set of these).. display: flex... display:grid */
```

* UA = "User Agent Stylesheet" = the default styles that come with the browser

visibility: hidden; versus display: none;

Totally removes the element from the page.

Note that while the element is still in the DOM, it is removed visually and any other conceivable way (you can't tab to it or its children, it is ignored by screen readers, etc).

DOM = "Document Object Model" = the organizational tree created by the HTML tags

https://css-tricks.com/almanac/properties/d/display/

The HTML read in by the browser is parsed (analyzed by the browser and broken into roles - like diagramming a sentence into nouns, verbs, adjectives, etc..). This parsed version is the DOM. It's the browsers understanding of the structure of your web page.

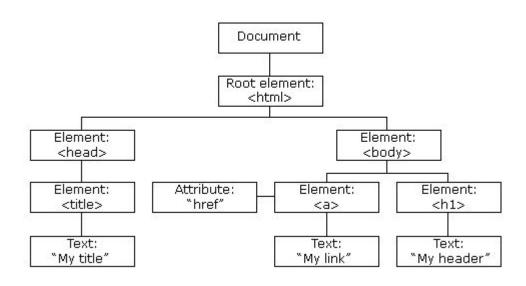
When you use the **Developer Tools** in Chrome, you are looking at the DOM. It's based on your HTML, but it won't always be exactly the same.

https://css-tricks.com/dom/

The HTML DOM is a standard **object** model and **programming interface** for HTML. It defines:

- The HTML elements as objects
- The **properties** of all HTML elements
- The **methods** to access all HTML elements
- The events for all HTML elements

In other words: The HTML DOM is a standard for how to get, change, add, or delete HTML elements.



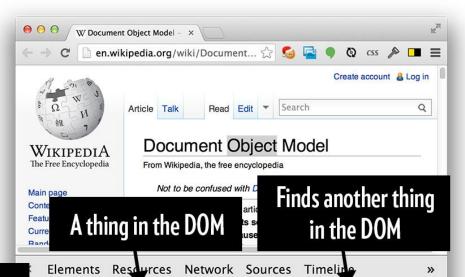
https://www.w3schools.com/js/js_htmldom.asp

Nouns = content (**HTML** is more like the sentence structure)

Adjectives = **CSS**

Verbs = Javascript

We can use Javascript (or jQuery) to manipulate the DOM. This is its super power. It allows us to access the mighty DOM "API" and manipulate our website.



One DOM property allows us to watch for events

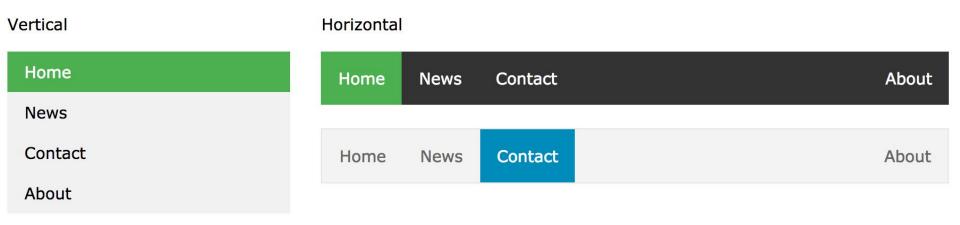


We'll watch for one particular DOM event this DOM element emits

Navigation

Basic Navbar - not responsive

https://www.w3schools.com/css/css_navbar.asp



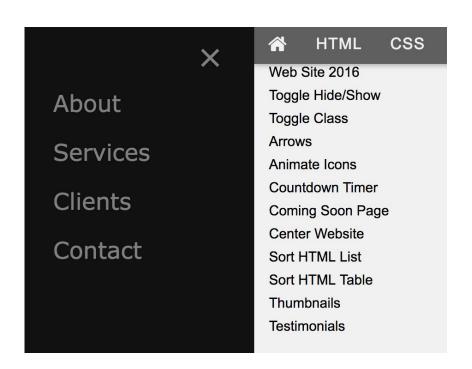
Basic Navbar - responsive

https://www.w3schools.com/howto/howto_js_topnav.asp



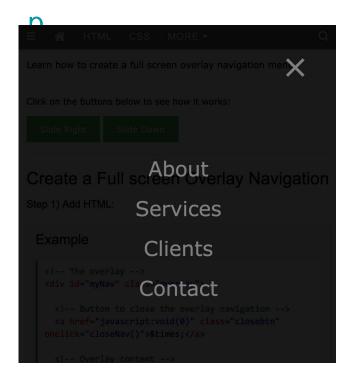
Side Nav - responsive

https://www.w3schools.com/howto/howto_js_sidenav.asp



Side Nav - full screen

https://www.w3schools.com/howto/howto_js_fullscreen_overlay.as



More from W3Schools

Breadcrumbs

https://www.w3schools.com/howto/howto_css_breadcrumbs.asp

```
Home / Pictures / Summer 15 / Italy
```

How To

Look also at Fixed Menu and Accordion. And any of the options shown under the How To section. Many of these will come in handy for your final projects!

https://www.w3schools.com/howto/default.asp

W3.css

https://www.w3schools.com/w3css/default.asp

W3Schools has a lightweight framework that we can use for navigation in Project 4, however, it is not required.

You may also use the W3.CSS framework for your **grid system** instead of Bootstrap or Flexbox for your final project, but you MAY NOT use a W3 pre-made template for I399.

Example use for W3.css - Side Navigation

https://www.w3schools.com/w3css/w3css_sidenav.asp

Link 1 Link 2 Link 3 Link 4

Close x My Header

Click on the \equiv symbol to open the sidenay (slides the content to the right).

Footer

Bookmark for your final projects

http://navnav.co/

Created by your new AI Hayden Mills!





A ton of CSS, jQuery, and JavaScript responsive navigation examples, demos, and tutorials from all over the web.