External Files

Headers, Footers, CSS, JS, and JQUERY

Header and Footer Tags

We've been using <div> to create headers and footers.

There's another way! (there always is!)

<header></header>

<footer></footer>

Can't I just use a div?

<div> is a generic container and should be used at last resort

<header> and <footer> were introduced in HTML to make the content more clear to web crawlers (search engines) and screen readers.

The `<header>` element represents a container for introductory content or a set of navigational links.

The `<footer>` tag defines a footer for a document or section.

How do they work?

<header> and <footer> work just like <div>

<header id="whatever">Title of my page</header>

If you give them an id, you can reference them just like you would a div.

You can style them using CSS same as a div.

So what's the catch?

You can have several `<header>` elements in one HTML document. However, `<header>` cannot be placed within a <footer>, <address> or another `<header>` element.

You can have several `<footer>` elements in one document.

Header and Footer tags can be used to denote header and footer elements of "sections" of a page, such as the header of your content section, or your navigation section. They are not limited to just the usual header and footer of the entire document.

https://www.w3schools.com/tags/tag_header.asp

https://www.w3schools.com/tags/tag_footer.asp

What is a header

Headers are always at the top of the page and are used primarily for navigation

Headers help users keep context as to where they are on your site

On mobile devices headers will appear on the left hand side of the screen

Headers typically contain

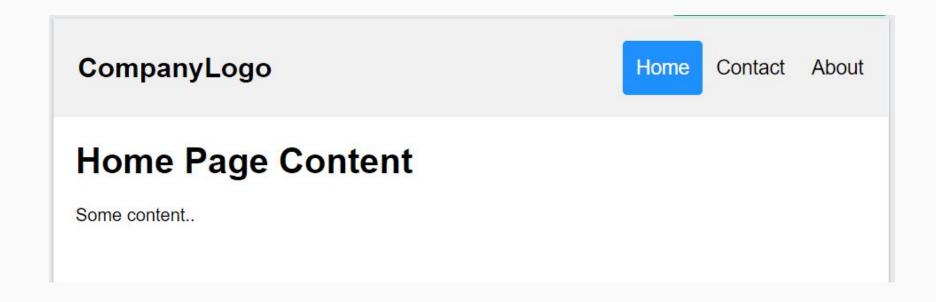- Links to other pages on your site

- Company Logo

- A home button

Head vs Header

The <head> tag should be used to contain your meta-tags, styles, scripts and title

The <header> tag should contain the navigation or header information discussed in the previous slide

Typical Header

CompanyLogo   Home Contact About

Home Page Content

Some content..

Header code example

```
<header>

      Whatever you want

</header>
```

What is a footer

Footers are always at the bottom of the page and primarily contain links

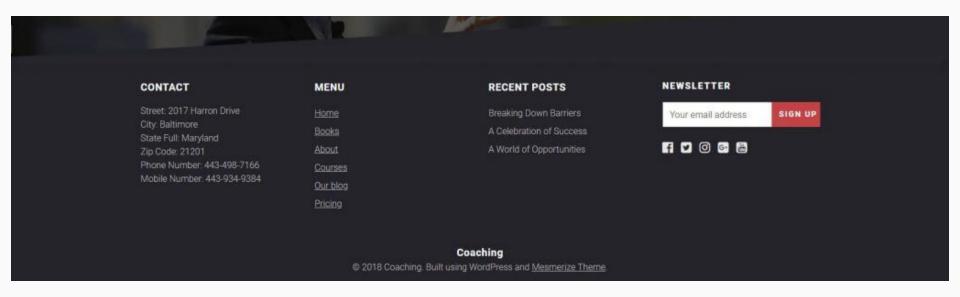Footers are a quick glance at important links relative to your site and company

Footers typically contain

      Links to your social site

      Links to other pages on your site

      Company address

Footer Example

Footer code example

```
<footer>

    Whatever you want

</footer>
```

The purpose of using headers and footers

Headers and Footers are a common across all web pages across the web

Using the header and footer tag make it easy for others to add to your webpage

It is always a good practice to have a header and footer on your webpage

Always be conscious of screen size and keep your headers and footers to important content only

Why External Files?

You can externalize html, css and javascript files so they can be reused

Externalizing your header and footer makes it easier to make a change once and have it populate across all pages on your site

We will later learn importing libraries and the method of using external files is the same as importing a library

Externalizing style, function, and headers/footers

STYLE (CSS):   `<link rel="stylesheet" href="mystyle.css">`

FUNCTION (JS):   `<script src="myscript.js"></script>`

HEADERS/FOOTERS (using JQUERY):

```
<script type="text/javascript" src="http://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

//include the header and footer
$(function(){
    $("#header").load("header.html");
    $("#footer").load("footer.html");
});
```

Let's externalize!

Using our temperature converter, let's externalize style, function, and the header/footers.

Using a header and footer template

There are many MANY header and footer templates across the web

While it is always good to write your own code it is faster to find a template and modify it for your needs

A good programmer doesn't "reinvent the wheel". Use the resources available to you!

Finding a header template demo

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

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

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

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

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

https://web-eau.net/en/blog/examples-header-bootstrap