Navigation Techniques

How to implement effective site navigation

? How do you *implement* good navigation in HTML?

7 Common Navigation Techniques

- Linked Images / Icons
- Mouse-Over
- Image "rollovers"
- Tooltips
- Anchors
- HTML Navigation Div
- CSS Navigation Bar

Linked Images

Allow you to turn any picture into a hyperlink.

1. Set up your hyperlink element

```
<a href="https://giphy.com/"></a>
```

1. Put an image element between the opening and closing tags.

```
<a href="https://giphy.com/"><img src="https://media1.giphy.com/media/3o72F241sDzoHEWCzu/200w.gif" /></a>
```

Opening tag of link

Closing tag of link

Mouse Over

Click Me

Change an image or button when you move the user has their mouse over it (helps provide user feedback).

Thanks to HTML5 and CSS3 there are many different ways to do this now, depending on what you want.

Fade a text box overtop:
https://www.w3schools.com/howto/howto_css_image_overlay.asp
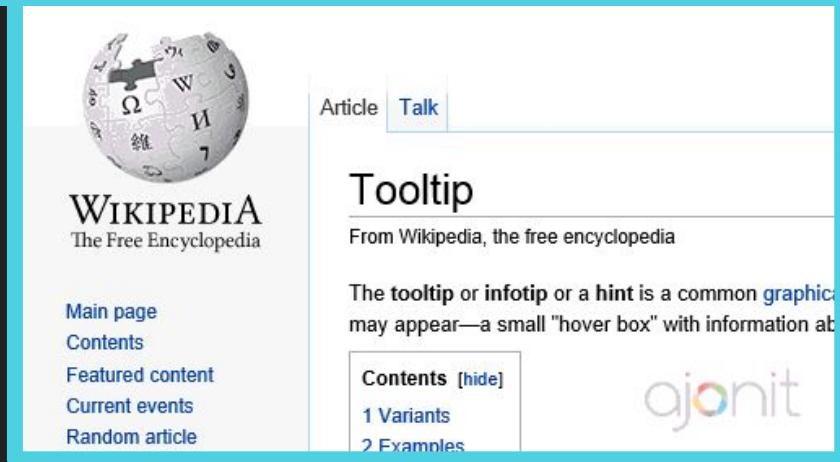
Fade an icon overtop:
https://www.w3schools.com/howto/howto_css_image_overlay_icon.asp

Fade a title at the bottom:
https://www.w3schools.com/howto/howto_css_image_overlay_title.asp:

Basic CSS technique:

The `:hover` selector https://www.w3schools.com/cssref/sel_hover.asp

(Oldschool) Image *Rollover* Technique (no CSS):

`<img src="IMAGE1" onmouseover="this.src='IMAGE2'" onmouseout="this.src='IMAGE1'" />`

Notes: This technique works best with small images and when the two images are the same size. The other problem is that if the images are too big there will be "lag" when you are switching between them.

Tooltips

On mouse-over, displays a short message next to the mouse after hovering for a short time. Great to provide extra information on links or images and can provide user feedback (so that the user knows the item they are on is active)

For any *element* in your HTML, simply add a **title** attribute.

```
<img src="http://www.teamjimmyjoe.com/wp-content/uploads/2015/06/Baby-Ninja.gif" title="Ninja Baby!"/>

<a href="https://www.boredpanda.com/" title="Click here to procrastinate"/>Check Out This Website</a>
```

Bookmarks
(formerly called *anchor links*)

Allow you to jump to a different position on a page.

1. Add a **unique id** to any HTML element you want to jump to:

   ```html
   <h1 id="top-info">Info About Us</h1>
   ```

1. Create a **hyperlink** somewhere on your page (such as a navigation bar) and add an href link to that ID:

   ```html
   <a href="#top-info">Back to Top</a>
   ```

```html
<h1 id="top">Movies!</h1>

<div class="container">...
</div>


<div class="container">...
</div>


<div class="container">...
</div>


<a href="#top">Back to top</a>
```

https://www.rapidtables.com/web/html/link/html-anchor-link.html

Image Links + Tooltips + Bookmarks + Mouse Over + CSS Navigation Bars

See Example | See Code

Image Links + Tooltips + Bookmarks + Mouse Over + Image Overlay

See Example | See Code

HTML5 Navigation Div

A simple way to add navigation on your pages.
Limited control of style and position.

1. Use the <nav> element in HTML5, simply place a list of links inside that div. You can style the links in whatever way you want in your CSS.

```
<nav>
   <a href="about.html">About</a> |

   <a href="careers.html">Careers</a> |

   <a href="gallery.html">Gallery</a> |

   <a href="contact.html">Contact Us</a>
</nav>
```

Horizontal Nav Example
https://www.w3schools.com/html/tryit.asp?filename=tryhtml5_nav

Vertical Nav Example
https://www.w3schools.com/html/tryit.asp?filename=tryhtml_layout_float

CSS Navigation Bar

Use CSS to create and style your navigation bars.

✓ Gives you a lot of control over the style and behaviour of the buttons.

✓ CSS makes it easier to copy between pages and update the style as needed.

W3 Schools provides a full collection of resources for implementing navigation!
https://www.w3schools.com/css/css_navbar.asp

Horizontal Navigation Bar Example:

https://www.w3schools.com/css/tryit.asp?filename=trycss_website_layout_navbar

Vertical Navigation Bar Example:

https://ics2o-navigation-techniques--lanzsingbeil.repl.co/navbar2.html

Dropdown Menus:

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

More Tips on Layout and Navigation with CSS

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

http://learnlayout.com

Example Repl Code (by Mr. Singbeil)

Collaborate on HTML and CSS