HTML TIPS

- Have one external stylesheet style.css for entire site
 - Saves you (a lot) of work!
 - Avoid *inline style* and *internal stylesheets* as much as possible
- HTML files <u>must</u> have character set if you intend to use special characters



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HTML TIPS



Margin Border Padding

Content

 The CSS box-sizing property allows us to include the padding and border in an element's total width and height

CSS Box Model



box-sizing: border-box; As opposed to the content-box model, the border-box model includes the border and padding inside of the width.

</th <th>margi</th> <th>n :</th>	margi	n :
<1-	- border	>
<1	padding	>
<1-	- width	>
	140px	
	20px	
	20px	
	20px	
	= 180px	



html tutorial



Typography A PEN BY Fjodor van Slooten				•	≺ Fork	🏟 Settings	Change View	Sign Up	Log In
• HTML	~	CSS	~	÷ J	S				~
1 * <div class="content"></div>		<pre>@import url('https://fonts.googleapis.com/css?family=Open+Sans'); 2</pre>	'						
<pre>3 * <h1>bold.</h1></pre>									
		<pre>4 html { box-sizing: border-box; }</pre>							
5 * <h2>The quick brown fox jumps over the lazy dog</h2>		5 *, *:before, *:after { box-sizing: inherit; margin:0; padding:0; }							
<pre>7 * Lorem ipsum dolor sit amet, consectetur adipiscing elit.</pre>		<pre>7 body { background: #e7b91b; }</pre>							

bold.

The quick brown fox jumps over the lazy dog

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Vestibulum eu enim sem, ut vestibulum nulla. Donec quis neque lorem. Cras congue quam ut tellus lacinia sit amet cursus dui semper lectus molestie. Ut facilisis, diam ut vehicula laoreet, libero justo commodo orci, et condimentum risus purus ac risus. Aenean semper lectus ed cursus pellentesque mollis.

w3schools: <u>css_font</u>, <u>bootstrap text/typography</u>

<u>b Typography</u>

codepen.io/vanslooten/pens/tags/?selected_tag=fonts



fonts.google.com



ICONS

w3schools.com/icons

w3schools.com

Icons Design Icons Editors

Icons Emoji Icons Files

Icons Food

Icons Genders

Icons Education

HTML CSS J	AVASCRIPT SQL PHP BOOTSTRAP HOW TO PYTHON	N W3.CSS JQUERY XML MORE ▼	
Icons Reference		<pre><!DOCTYPE html> <html></html></pre>	Some Font Awesome icons:
Font Awesome 5	Icons Tutorial	<pre><htps: title="" www.some.icons=""></htps:></pre>	(B) 2 2 0 0
Icons Accessibility	K Home	<pre><meta content="width=device-width, initial-scale=1" name="viewport"/> <link <="" href="https://use.fontawesome.com/releases/v5.7.0/css/all.css" pre="" rel="stylesheet"/></pre>	Styled Font Awesome icons (size, color, and shadow):
Icons Animais Icons Arrows Icons Audio & Video		<pre>integrity="sha384-lZN37f5QGtY3VHgisS14W3ExzMWZxybE1SJSEsQp9S+oqd12jhcu+A56Ebc1zFSJ" crossorigin="anonymous"> </pre>	J 20
Icons Automotive Icons Autumn		<body></body>	
Icons Brands		some Font Awesome Icons: <i class="fas fa-band-aid"></i>	
Icons Buildings Icons Business Icons Charity Icons Chat Icons Chess Icons Code Icons Communication Icons Computers Icons Currency	How To Add Icons	<pre><i class="fas fa-cat"></i> <i class="fas fa-dragon"></i> <i class="far fa-clock"></i> <i class="far fa-clock"></i></pre>	
	To insert an icon, add the name of the icon class to any inline HTML e	<pre>Styled Font Awesome icons (size, color, and shadow):</pre>	
	The <i> and elements are widely used to add icons.</i>	<pre><i class="fas fa-clock" style="font-size:24px;"></i><i class="fas fa-clock" style="font-size:36px:"></i><i class="fas fa-clock" style="font-size:36px:"></i></pre>	
	All the icons in the icon libraries below, are scalable vector icons that	<pre><i class="fas fa-clock" style="font-size:48px;color:red;"></i> <i class="fas fa-clock" style="font-size:60px;color:lightblue;text-shadow:2px 2px 4px #000000:"></i> </pre>	
Icons Date & Time		#000000; 7(1)	

Font Awesome 5 Icons

To use the Free Font Awesome 5 icons, add the following line inside the <head> section of your HTML page:

Note: No downloading or installation is required!

Example

BACKGROUNDS

background-color: #e1efbb

background-color: rgba(200, 0, 200, 0.5);

background-image: url('img_flwr.png')

CSS background properties are used to define the background effects of an element.

CSS properties used for background effects:

- background-color
- background-image
- background-repeat
- background-attachment
- background-position

w3schools: background

Special effects

Css examples



HIGHLIGHT ON HOVER



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LAYOUT: LAYERS AND FIXED/STICKY ELEMENTS

- <div> element as container, base element for layouts
- Overlap: use **z-index**
- z-index only works on positioned elements (position:absolute, position:relative or position:fixed)



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codepen.io/vanslooten/pen/gawPWV

w3schools: <u>CSS positioning</u>, <u>sticky</u>

Content of this <div> element is always visible.

width: 40%;

bottom: 0;

@MEDIA QUERIES

selector { stylerule; ... }



<meta name="viewport" content="width=device-width, initial-scale=1">

w3schools.com/js

codepen.io/vanslooten/pen/qdqjqL

JAVASCRIPT

<script>



<button> if clicked on, execute function changeBackground

<button onclick="changeBackground('green')">Green</button>

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JAVASCRIPT: DRAWING ON A CANVAS

w3schools: canvas

Using **p5.js (processing)** might be easier

codepen.io/vanslooten/pen/JYRYJE

- Canvas as a 'sheet' to draw on
- Drawing commands in Javascript
- Example: strokeRect(left,top,width,height)

```
<canvas id="drawing" width="360" height="240"></canvas>
<script>
var canvas = document.getElementById('drawing');
var context = canvas.getContext('2d');
context.strokeStyle = '#990000';
```

context.strokeRect(20,30,100,50);
</script>

JAVASCRIPT: WHERE TO PUT IT?

- Always include a script after the html code, preferably at the end of the page
- Why? The script might interact with the html code, but that might not have been loaded yet, as the browser loads top to bottom
- Another approach is to use async or defer

Placing scripts in *external files* has some advantages:

- It separates HTML and code
- It makes HTML and JavaScript easier to read and maintain
- Cached JavaScript files can speed up page loads





"A JavaScript library designed to simplify the client-side scripting of HTML"



w3schools: jQuery

JQUERY: DYNAMIC MENU & PAGES

codepen.io/vanslooten/pen/gpMQbM



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JQUERY: DYNAMIC MENU & PAGES

codepen.io/vanslooten/pen/gpMQbM A first page with style Home page Thoughts Welcome to this page. My city It has no images, but it got style. And it has links, to bring you somewhere else... Links On this page links are part of a navigation element: a menu. The menu contains l logic is realized with jQuery. CSS selector Click-function on list-elements in menu \$("nav li").click(function() { \$("nav li").removeClass("current"); // Remove any active class \$(this).addClass("current"); // Add "current" class to selected menu item \$("div.content div").hide(); // Hide all content pages // Find the href attribute value of the clicked menu item to identify the active page: var activePage = \$(this).find("a").attr("href"); \$(activePage).fadeIn(); // Fade in the active page content }); // end click method

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