**Responsive web design course Notes**

* The lower the number, the higher the importance, so h2 elements have less importance than h1 elements.
* HTML5 has some elements that identify different content areas. These elements make your HTML easier to read and help with Search Engine Optimization (SEO) and accessibility.
* The strong element is used to indicate that some text is of strong importance or urgent.
* The em element is used to indicate that emphasis should be put on the object text
* he div element is used mainly for design layout purposes unlike the other content elements you have used so far
* article elements commonly contain multiple elements that have related information.
* You can add a fallback value for the font-family by adding another font name separated by a comma. Fallbacks are used in instances where the initial is not found/available.
* #FF0000 and #FF0000CC . The second one defines the alpha value of the color..

**Registration Form**

* The vh unit stands for viewport height, and is relative to 1% of the height of the viewport.
* The method attribute specifies how to send form-data to the URL specified in the action attribute. The form-data can be sent via a GET request as URL parameters (with method="get") or via a POST request as data in the request body (with method="post").
* The rem unit stands for root em, and is relative to the font size of the html element.
* Minlength = 8 for min length
* With type="password" you can use the pattern attribute to define a regular expression that the password must match to be considered valid.

**[a-z0-5]{8,}**

* The above is a regular expression which matches eight or more lowercase letters or the digits 0 to 5
* To relate the radio inputs, give them the same name attribute with a value of account-type. Now, it is not possible to select both radio inputs at the same time.
* Select only the .inline elements, and give them width of unset. This will remove the earlier rule which set all the input elements to width: 100%. Unset is used to remove any previously applied rule. In this case the width was unsetted
* Color by default is used to designate text.

**Box Model**

* margin: 0 auto 20px; This will remove its top margin, horizontally center it, and set its bottom margin to 20 pixels.
* border-radius: 8px 10px; Set’s its top-left radius and bottom-right radius to 8px, and top-right radius and bottom-left radius to 10px
* padding: 8px 1px 3px 5px; Respectively goes for Top Right Bottom Left;

**Flex Box**

* Giving an element a display property of flex will make it a flex container. Any direct children of a flex container are called **flex items.**
* **Flexbox** has a main and cross axis. The main axis is defined by the flex-direction property, which has four possible values:
* row (default): horizontal axis with flex items from left to right
* row-reverse: horizontal axis with flex items from right to left
* column: vertical axis with flex items from top to bottom
* column-reverse: vertical axis with flex items from bottom to top

**Note**: The axes and directions will be different depending on the text direction. The values shown are for a left-to-right text direction.

* The**flex-wrap** property determines how your flex items behave when the flex container is too small. Setting it to wrap will allow the items to wrap to the next row or column. nowrap (default) will prevent your items from wrapping and shrink them if needed.
* The **justify-content** property determines how the items inside a flex container are positioned along the main axis, affecting their position and the space around them. Consider the snippet below

*Flex-direction : row;  
justify-content : center;*

It will imply that elements being aligned horizontally ( row) and being centered **horizontally** (row)

* The **align-items** property positions the flex content along the cross axis. In this case, with your flex-direction set to row, your cross axis would be vertical
* The **gap**CSS shorthand property sets the gaps, also known as gutters, between rows and columns. The gap property and its row-gap and column-gap sub-properties provide this functionality for flex, grid, and multi-column layout. You apply the property to the container element.
* The**::after**pseudo-element creates an element that is the last child of the selected element. You can use it to add an empty element after the last image. If you give it the same width as the images it will push the last image to the left when the gallery is in a two-column layout.

- Rather than setting each aspect ratio individually, you can use the object-fit property to determine how images should behave.

Give your .gallery img selector the object-fit property and set it to cover. This will tell the image to fill the img container while maintaining aspect ratio, resulting in cropping to fit.

- **Span**  is highly used to group elements (especially text ) for alignment. It’s like grouping in Adobe

**Typography**

* The **rem** unit stands for root em, and is relative to the font size of the html element. In other words setting an element’s font size to 1em is setting it to the font-size assigned in the html selector, or if not precised, the font-size of the browser. Like the word indicates “**Root** element(rem)”
* The **:not** pseudo-selector can be used to select all elements that do not match the given CSS rule.

div:not(#example) {

color: red;

}

ie all the divs except that with the ‘example’ id

.daily-value p:not(.no-divider) {

   border-bottom: 1px solid #888989;

}

* **50vw** means 50% of the view width
* Even though you added a placeholder to the first input element in the previous lesson, this is actually not a best-practice for accessibility; too often, users confuse the placeholder text with an actual input value - they think there is already a value in the input.
* Remove the placeholder text from the first input element, relying on the label being the best-practice.
* For every required field just add the required before closing the “>” . Example : <input type=”number” required/>, <select required>. Notice that for non self closing elements the required keyword is added on the first ”<>”. Okay good.
* For self closing elements the / comes after the element name e.g <input/>. On the other hand non self closing elements have the / before the name. e.g <div></div> , <textarea> </textarea>
* The br tags will allow each part of the address to be on its own line and are useful for presenting address elements properly.
* Address element gives information about the page author . (by default puts text in italics)
* The child combinator (>) is useful because it ensures that only the immediate children (li elements directly under ul) are selected and styled.

It is useful to see the default border around the fieldset elements, during development. However, it might not be the style you want.

border: none;removes the field borders.

When we use media queries, we are getting information from the device or media through which the webpage is been displayed to have a personalized or unique render. We can be querying browser settings , screen size , preferences etc. It’s all about knowing the client to feed him like he wants.

- Navigation accessibility can be improved by providing keyboard shortcuts.

The accesskey attribute accepts a space-separated list of access keys. For example:

<button type="submit" accesskey="s">Submit</button>

HEAD

BODY

FOOTER

Translucent background images implementation:

background-image: linear-gradient(90deg, rgba(2, 87, 154,0.8), rgba(74, 10, 35,0.5)),

   url("https://cdn.pixabay.com/photo/2020/01/27/19/22/piano-4798138\_640.jpg") ;

Notice background-image has the **linear-gradient** property we used to define overlapping color. Wow

You should give **priority to screen readers** when coding the crud html. You may even change the order of elements in the crud html just for it to make sense and then put them back in right other using html or CSS.

**Aria-hidden** Is used to hide content from screen readers. Aria-hidden=true

HTML tables use the **caption** element to describe what the table is about. The **caption** element should always be the first child of a table, but can be positioned with the caption-side CSS property.

td: Table data Cell

th: Table header Cell

tr: Table Row

**span[class~="sr-only"]** aNotice the ”~=” which stands for includes . That is , we are picking all spans who have sr-only in their list of classes.

The **Clip** function is used to actually clip or crop ( just like in illustrator ) elements. It can be images, text etc

clip: rect(1px , 1px, 1px, 1px);

The **Clip-path** property is used to define the visible area of an element. Using **Inset(50)** as value for instance implies setting the only 50 percent (from sides and from top and bottom)of the element visible.

The **:first-of-type** pseudo-selector is used to target the first element that matches the selector.

Use the **max-width, max-height , max-**.. for responsiveness

The **calc()**function is a CSS function that allows you to calculate a value based on other values.

.example {

margin: 10px;

width: calc(100% - 20px);

}

The **span[class]** syntax targets any span element that has a class attribute set, regardless of the attribute's value.

**span[class~="sr-only"] << INVERSE OF >> span:not(.sr-only)**

**span[class~=”sr-only”]**  
That is all spans that have ‘sr-only’ in their class lists or even that just have **word ‘sr-only’** in the class list. In other words if there’s an element with the class ‘bsr-only’ this selector will select it.

**VS  
span:not(.sr-only)** all spans that do not have .sr-only in their class lists.

you can use the **!important** keyword to ensure these properties are always applied, regardless of order or specificity.

border-collapse: collapse; border collapse is used to merge cells so they share a common border.

The key difference between **tr[class="total"]** and **tr.total** is that the first will select tr elements where the only class is total. The second will select tr element that have total class.

The point here is that the ‘tr.total’ approach helps us to select specific total class elements. Let’s say in a website we assign the class “hover\_animate” to buttons, links and call to actions. For sure we have to give a hover animation to all of them.. but we may not want buttons and links to have the same animation . In such a case instead of assigning a new class say

“button\_hover” and “link\_hover” , we can just use this nice technique and this is what it will look like :

button.hover\_animate : selects buttons that have the hover\_animate class  
a.hover\_animate : selects anchor elements that have the hover\_animate class.

|  |  |
| --- | --- |
| **tr .data**  **class1.class2** | Selects all elements with the data class indented in tr. |
| **tr[class=”data”]** | Selects all tr elements with .data being their only class. It is a fancy way of saying tr.data |
|  |  |
| **tr[class\*=”data”]** | Selects all tr elements who the ‘data’ in one of their class . it will select <tr class=”ourdata” ></tr> for instance. Insane right?! |
| **tr.data** | Selects the .data class but only for tr elements. Also, they should have no other class |
| **tr[class~=”data”]** | This is the extended version of the tr.data selector. Selects the .data class but only for tr elements. Also, there can be as many other classes as possible on the tr element but also ‘data’ can be the only class. |

background: linear-gradient(#5e5e5e 85%,#45454f 100%)

**Linear gradient** stuff

**Positioning**

**Static** is the default positioning for all elements. If you assign it to an element, you won't be able to move it around with top, right, left, or bottom.

**Sticky** positioning allows an element to stick to a specific position within its containing element or viewport, based on the scroll position.

**Absolute** positioning means being positioned **relative** to a parent. If there’s no parent or ancestor having it’s position set to relative then the positioning will be done with the browser page simply.

**Fixed** positioning as the word says defines or set’s an element’s position to fix and it isn’t relative to anything. The only thing it’s relative to is the web browser page.

border-bottom-right-radius: 40%;

  border-bottom-left-radius: 40%;

  border-top-left-radius: 90px;

  border-top-right-radius: 10p

Always start with ‘border’

The content property is used to set or override the content of the element. By default, the pseudo-elements created by the ::before and ::after pseudo-selectors are empty, and the elements will not be rendered to the page. Setting the content property to an empty string "" will ensure the element is rendered to the page while still being empty.

Elements created by ::before and ::after selectors if set to absolute will have their original element ( from which the ::after or ::before was set) as relative for positioning .. kind of an ancestorial relationship or something.

At times you may do the following to totally reset box-sizing in your styling.

\*, \*::before, \*::after {

  box-sizing: inherit;

}

Notice we are using **inherit**  here which simply means that \* will inherit from his direct ancestor which is no one else than html. (you should have set box-sizing to inherit in html selector). Inherit can be used in so many other situations.. looks interesting.

When **Hidden** value is given to the overflow attribute of an element, that element will hide any subelement incase of an overflow. Overflowing here is synonym of going beyond the defined width, height or just simply the size of that parent object.

**#** is used to for id! And **.**  for classes 😂😂

**overflow-y: auto** this line of code is golden! It enables vertical scrolling. For say a sidebar or some sort.