



CSS RESPONSIVENESS

I4GIC (2021-2022)

By Thavorac

WHAT IS RESPONSIVE WEB DESIGN?

- Responsive web design makes your web page look good on all devices.
- Responsive web design uses only HTML and CSS.
- Responsive web design is not a program or a JavaScript.



MEASUREMENT UNIT

Absolute

cm : centimeters

mm : millimeters

in : inches (1 inch = 96px = 2.54cm)

px : pixels (1px = 1/96 inch)

pt : points (1pt = 1/72 inch)

pc : picas (1pc = 12pt)

Relative

rem : relative to font size of the root element

em : relative to the font size of element

ex : relative to the x-height of current font

ch : relative to width of "0"

vw : relative to 1% of width of viewport

vh : relative to 1% of height of viewport

% : relative to parent element

MEDIA QUERY

- Media query is a CSS technique introduced in CSS3.
- It uses the `@media` rule to include a block of CSS properties only if a certain condition is true.

```
@media only screen and (max-width: 600px) {  
  body {  
    background-color: lightblue;  
  }  
}
```

MEDIA QUERY: ADD BREAKPOINT



```
@media only screen and (max-width: 768px) {  
  /* For mobile phones: */  
  [class*="col-"] {  
    width: 100%;  
  }  
}
```

MEDIA QUERY: ORIENTATION

- Media queries can also be used to change layout of a page depending on the orientation of the browser.
- You can have a set of CSS properties that will only apply when the browser window is wider than its height, a so called "Landscape" orientation

```
@media only screen and (orientation: landscape) {  
  body {  
    background-color: lightblue;  
  }  
}
```

MEDIA QUERY: HIDE ELEMENT

Another common use of media queries, is to hide elements on different screen sizes:

```
/* If the screen size is 600px wide or less, hide the element */
@media only screen and (max-width: 600px) {
  div.example {
    display: none;
  }
}
```

MEDIA QUERY: CHANGE FONT SIZE

You can also use media queries to change the font size of an element on different screen sizes:

```
/* If the screen size is 601px or more, set the font-size of <div> to 80px
*/
@media only screen and (min-width: 601px) {
  div.example {
    font-size: 80px;
  }
}

/* If the screen size is 600px or less, set the font-size of <div> to 30px
*/
@media only screen and (max-width: 600px) {
  div.example {
    font-size: 30px;
  }
}
```