CSS Units

- description : CSS Units
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CSS Units

CSS   .

    CSS   width, margin, padding, font-size   "   "   .

    (Length)   10px, 2em   .

px (pixels)   .

```
h1 {
  font-size: 60px;
}

p {
  font-size: 25px;
  line-height: 50px;
}
```

Note:

                                        . ,   0   .

    CSS   ,   (negative length)   .

                    (absolute)   **(relative)**   .

Absolute Lengths

                              ,   .

                              ,   .

Unit	Description
cm	centimeters
mm	millimeters
in	inches (1in = 96px =2.54cm)
px *	pixels (1px = 1/96th of 1in)
pt	points (1pt = 1/72th of 1in)
pc	picas (1pc = 12pt)

*　　(px)　　　　　　　　　　(relative)　　　.
　dpi　　　　　　, 1px　　　　　　　　　　　　　　　　(　　)　　　.
　　　　　　　　　　　　　1px　　　　　　　　　　　　　　　.

Relative Lengths

　　　　　　　　　　　　　　　　　　　　　　　　　.
　　　　　　　　　　　　　　　.

Unit	Description			
em		(2em	2	)
ex	x	(	)	
ch	"0" (zero)			
rem	(root element)			
vw	(viewport)*	1%		
vh	(viewport)*	1%		
vmin	(viewport)*	1%		
vmax	(viewport)*	1%		
%	(parent element)			

Tip: em　　rem　　　　　　　　　　　　　　　　　　　　　　　　　　　　　!
*　　　　=　　　　　　　　　　.　　　　　　50cm　　1vw = 0.5cm　　　.

em unit

```
<!DOCTYPE html>
<html>
<head>
  <style>
    p {font-size: 16px;line-height: 2em;}

    div {font-size: 30px;border: 1px solid #000;}

    span {font-size: 0.5em;}
  </style>
</head>
```

```
<body>

  <p>These paragraph have a calculated line-height of : 2 x 16px = 32px.</p>
  <p>These paragraph have a calculated line-height of : 2 x 16px = 32px.</p>
  <p>These paragraph have a calculated line-height of : 2 x 16px = 32px.</p>
  <div>The font-size of the div element is set to 30px.
  <span>The span element inside the div element has a font-size of 0.5em,
  which equals to 0.5 x 30 = 15px</span>.</div>

</body>
</html>
```

rem unit

```
<!DOCTYPE html>
<html lang="en">
<head>
  <style>
    html {font-size: 16px; }

    div {border: 1px solid #000; font-size: 3rem;}

    #top-div {font-size: 2rem; border: 1px solid red;}
  </style>
</head>

<body>
  <p>The font-size of this document is 16px.</p>
  <div id="top-div">
    The font-size of this div element is 2rem, which translates to 2 x the
browser's font size.
    <div>The font-size of this div element is 3rem. It also shows that it
does not inherit from its parent element font size.</div>
  </div>
  <p>The rem unit sets the font-size relative to the browser's base font-
size, and will not inherit from its parents.</p>
</body>
</html>
```

vw unit

```
<!DOCTYPE html>
<html lang="en">
<head>
  <style>
    h1 {font-size: 20vw;}
  </style>
</head>
```

```
<body>
  <h1>Hello</h1>
  <p>Resize the width of the browser window to see how the font-size of h1
changes.</p>
  <p>1vw = 1% of viewport width</p>
  <p>The vw unit is not supported in IE8 and earlier.</p>
</body>
</html>
```

vh unit

```
<!DOCTYPE html>
<html lang="en">
<head>
  <style>
    h1 {font-size: 20vh;}
  </style>
</head>
<body>
  <h1>Hello</h1>
  <p>Resize the height of the browser window to see how the font-size of h1
changes.</p>
  <p>1vh = 1% of viewport height</p>
  <p>The vh unit is not supported in IE8 and earlier.</p>
</body>
</html>
```

vmin unit

```
<!DOCTYPE html>
<html lang="en">
<head>
  <style>
    h1 {font-size: 15vmin;}
  </style>
</head>
<body>
  <h1>Hello</h1>
  <p>Resize the browser window (both width and height) to see how the font-
size of h1 changes.</p>
  <p>1vmin = 1vw or 1vh, whichever is smaller.</p>
</body>
</html>
```

vmax unit

```
<!DOCTYPE html>
<html lang="en">
<head>
  <style>
    h1 {font-size: 15vmax;}
  </style>
</head>
<body>
  <h1>Bonjour</h1>
  <p>Resize the browser window (both width and height) to see how the font-
size of h1 changes.</p>
  <p>1vmax = 1vw or 1ch, whichever is larger.</p>
  <p>The vmax unit is not supported in Edge 15 and earlier, nor in Safari
6.1 and earlier.</p>
</body>
</html>
```

, CSS, Units