

Unit - Unit of measurement in CSS

CSS supports a lot of length measurement units, also called units, to apply to attributes that need it.

CSS supports us a lot of **units of length measurement, also called Unit** to apply to the properties that need it such as *margin, padding, width, height*.

Example units follow length properties, such as *10px, 2em*.

However, there are a few things to note when using it:

1. Units can have negative values.
2. There is no space between the value and the unit of measurement.
Example: *20px, 30em* >> *right*; *2 0 px* >> *wrong*.
3. If the unit is zero, then there is no need to add the unit to the back.

In CSS there are two types of units that are **Absolute** and **Relative**.

Let's find out the meaning of each unit in TipsMake.com later in the article.

Absolute unit - Absolute

Absolute is a fixed-value unit that accurately represents the size it displays, independent of, and not changed by, any external impact. Only use this type of unit for high resolution devices, especially recommended for output as printers. On the computer screen and handheld device you probably won't get what you expect.

Some absolute units in CSS are as follows:

Unit Description cm centimeter millimeter in inch: 1in = 96px = 2.54cm px pixel: 1px corresponding to a pixel on the computer. 1px = 1/96 in pt point: 1pt = 1/72in pc pica: 1pc = 12 pt

For example:

For example 1cm unit

For example 10mm units

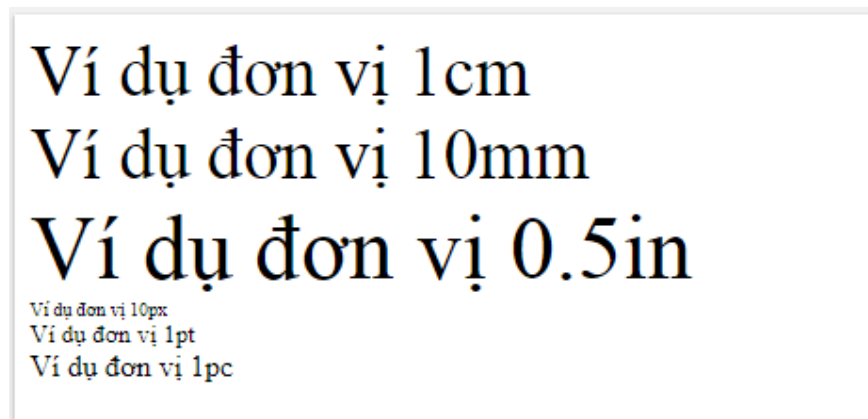
Example unit 0.5in

Unit example 10px

Example 1pt unit

Example unit 1pc

Results displayed on the browser are absolutely accurate according to the actual size.



Relative measuring unit - Relative

Relative is a unit of measurement used in CSS at a relative level, often dependent on a certain component to determine its value.

Some relative units in CSS are as follows:

Unit Description 1em is equivalent to the size of the current font-size, similarly we have 2em = 2 times the font ex 1ex is equivalent to the height (height) 1 x (lowercase) of the current font ch 1ch equivalent to the width (width) of 0 according to the current size rem relative to the original component's font vw 1vw is equivalent to 1% of the browser window width and 1vh is equal to 1% of the height vmin 1vmin browser window is equivalent to 1% of the smallest browser window size vmax 1vmax is equivalent to 1% of the browser window

size largest% relative to the original component

Example 1: px and me

These lines have a line-height: $2 \times 16\text{px} = 32\text{px}$.

These lines have a line-height: $2 \times 16\text{px} = 32\text{px}$.

These lines have a line-height: $2 \times 16\text{px} = 32\text{px}$.

Font size of div element is set to 30px. Element span within the div element has a font size of 0.5em, equivalent to $0.5 \times 30 = 15\text{px}$.

Các đoạn này có line-height là: $2 \times 16\text{px} = 32\text{px}$.

Các đoạn này có line-height là: $2 \times 16\text{px} = 32\text{px}$.

Các đoạn này có line-height là: $2 \times 16\text{px} = 32\text{px}$.

Kích thước phông chữ của phần tử div được đặt thành 30px. Phần tử span bên trong phần tử div có kích thước phông chữ là 0,5em, tương đương với $0.5 \times 30 = 15\text{px}$.

Example 2: px and%

The font size of this document is 16px.

The font size of this div element is 150% of 16px.

Unit% sets the font size relative to the current font.

Cỡ chữ của tài liệu này là 16px.

Kích thước font chữ của phần tử div này là 150% của 16px.

Đơn vị % đặt kích thước font chữ tương đối so với kích thước font chữ hiện tại.

Browser support

Unit reference is supported in each version of the browser as follows:

Unit







em, ex, %, px, cm, mm, in, pt, pc 1.0 3.0 1.0 1.0 3.5 ch 27.0 9.0 1.0 7.0 20.0 rem 4.0 9.0 3.6 4.1 11.6 vh, vw 20.0 9.0 19.0 6.0 20.0 vmin 20.0 9.0 * 19.0 6.0 20.0 vmax 26.0 Does not support 19.0 7.0 20.0

* Internet Explorer 9 supports *vmin* with the name *vm*.

Previous lesson: Design Layout - Website layout in CSS

Next lesson: CSS Specificity

You finished reading the article "**Unit - Unit of measurement in CSS**" edited by the [TipsMake](#) team. We hope this article has provided you with many useful tech tips and tricks. You can search for similar articles on tips and guides. Thank you for reading and for following us regularly.