

Class 08 CSS Size Units

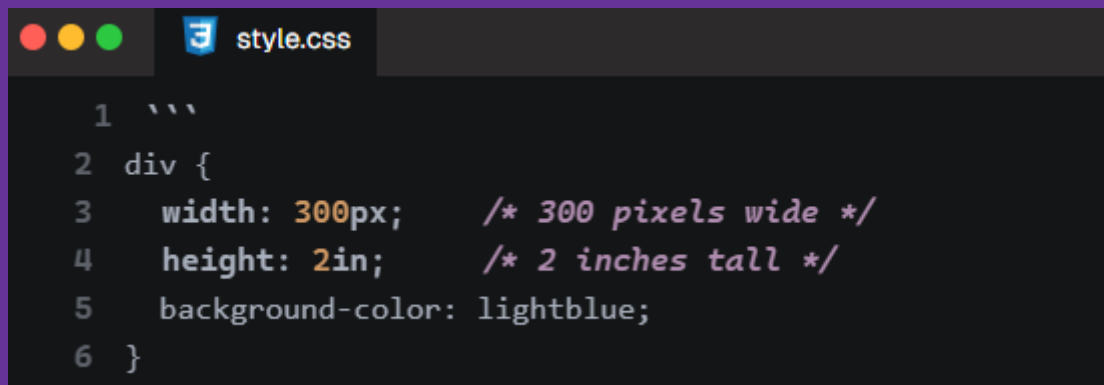
What are CSS size units ?

CSS size units are measurements used to define the dimensions of elements in a web page's layout. These units help in specifying the width, height, margins, padding, font sizes, and other size-related properties of HTML elements.

Absolute Units

These units have a fixed size and do not change based on screen size or other elements.

- **px (pixels):** A pixel is the smallest unit of measurement in CSS. It is relative to the screen's resolution.
- **in (inches):** One inch is equal to 96 pixels.
- **cm (centimeters):** One centimeter is equal to 37.8 pixels.
- **mm (millimeters):** One millimeter is equal to 3.78 pixels.
- **pt (points):** A point is equal to 1/72 of an inch (approximately 1.33 pixels).
- **pc (picas):** A pica is equal to 12 points (approximately 16 pixels).



```
1  ``
2  div {
3    width: 300px;    /* 300 pixels wide */
4    height: 2in;     /* 2 inches tall */
5    background-color: lightblue;
6  }
```

Relative Units

These units are based on other properties (like the font size or the viewport).

- **% (percent):** Percentage values are relative to the parent element's size.
- **em:** Relative to the font-size of the element itself. For example, 2em is twice the size of the current font size.
- **rem (root em):** Relative to the font-size of the root element (<html>). For example, if the root font-size is 16px, 1rem equals 16px.
- **vw (viewport width):** 1vw equals 1% of the viewport's width.
- **vh (viewport height):** 1vh equals 1% of the viewport's height.
- **vmin:** The smaller value between vw and vh.
- **vmax:** The larger value between vw and vh.

CASCADING STYLE SHEET (CSS)

CSS

style.css

```
1  ``
2  body {
3    font-size: 16px; /* Root font size */
4  }
5
6  .container {
7    width: 50%;      /* 50% of the parent element's width */
8    height: 50vh;    /* 50% of the viewport height */
9    background-color: lightgreen;
10 }
11
12 .text {
13   font-size: 2em;   /* 32px if the parent font size is 16px */
14   margin: 1rem;     /* 16px margin (based on root font size) */
15 }
```