Frontend^β → CSS → Measurement Units → <u>Absolute units</u>

Theory: Absolute units

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CSS works with a variety of units of measurement that can help you specify the size of elements. These units can be absolute and relative. Absolute units of measurement have a fixed size. They are often used to work with text. Absolute units can also be useful if you want to create an item whose size will not change.

You have already tried using pixels in the values of some properties. Pixels are usually attributed to absolute units of measurement. In this topic, we will learn more about pixels and other absolute units of measurement.

§1. Pixels

To specify the size of elements on the web pages intended for viewing on device screens, pixels are used more often than any other absolute units.

px defines the measurement in pixels.

```
1   p {
2   height: 25px;
3  }
```

Pixels are units of a fixed size that are used for everything displayed on the computer screen. One pixel equals one point on the computer screen — this is the smallest division of your screen resolution. The main problem with pixels is that they cannot be enlarged for the convenience of users with poor vision or reduced for reading on mobile devices.

Browsers do not always accurately calculate the size of the viewing area in pixels. They tend to adjust this unit to bring the viewing characteristics closer to a traditional desktop monitor, so some developers consider pixels a relative unit of measurement.

Units of measurement can be specified as a whole number or in a decimal form:

```
1  p {
2  font-size: 12.5px;
3  height: 150.5px;
4 }
```

§2. Absolute units

Besides pixels, there are other absolute units of measurement. You have probably seen or used some of these units outside of CSS.

cm defines the measurement in centimeters:

```
1  p {
2  font-size: 10cm;
3 }
```

mm defines the measurement in millimeters (10mm = 1cm):

```
1 | p {
2 | font-size: 100mm; /* or 10cm */
3 | }
```

in defines the measurement in inches (1in = 2.54cm):

```
1  p {
2  font-size: 4in; /* or 10.16cm */
3  }
```

Current topic:

Stage 2
Absolute units

Topic depends on:

X Comments Stage 2

Topic is required for:

```
Width and height ...

Stage 2

Margin and padding ...

Box-Shadow ...

line-height ...

Introduction to animation ...

Stage 2

Position ...
```

Table of contents:

↑ Absolute units

Positioning Properties

§1. Pixels

§2. Absolute units

§3. Conclusion

Feedback & Comments

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pt defines the measurement in points (1pt = 1/72 of 1in).

```
font-size: 288pt; /* or 10.16cm */
```

pc defines the measurement in rations (1pc = 12pt).

```
font-size: 24pc; /* or 10.16cm */
```

Although centimeters, millimeters, inches, points, and rations are designed to display the elements on a web page, the browsers will not always be able to accurately calculate the physical size of the screen. This means that the elements whose dimensions are set with these units may have different dimensions on different devices. Therefore, it is best to use these units of measurement for printing web pages.

§3. Conclusion

Now you know the full range of absolute units of measurement in CSS. Remember that choosing a unit is not random, and different units are good for different situations. Now you will be able to create webpages for both printing and digital displays.

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https://hyperskill.org/learn/step/10605 2/2