# 4.5 Font and text properties

#### **Font properties**

Many CSS properties control the font properties for displaying text. CSS font properties include:

- The **font-family** property specifies the font family, such as "Times New Roman" or serif.
- The **font-size** property changes the font size, such as 120%, small, or 12px.
- The **font-weight** property specifies the font weight, such as **normal** or **bold**.
- The **font-style** property changes the text style, such as **normal**, **italic**, or **oblique**.
- The **font-variant** property specifies the variant of the text, such as **normal** or **small-caps**.
- The **font** property is shorthand for setting several font properties at the same time. Ex: font: italic 12pt Georgia, serif;

The **font-family** property contains a list of fonts specified as a family name or a generic family separated by commas.

- A **family name** is the name of a specific font, like "Times New Roman", "Arial", or "Georgia". Family names containing spaces must be wrapped in quotations marks, while family names without spaces do not.
- A *generic family* is a general group of fonts, like serif, sans-serif, cursive, fantasy, or monospace. Ex: Times New Roman and Georgia are both serif fonts because the fonts contain serifs, which are small strokes attached to the end of larger strokes on each letter.

The web browser will use the first font listed that is available. Good practice is to start the list with the intended font and end with a generic family. Ex:

font-family: Arial, Helvetica, sans-serif;

Table 4.5.1: Generic family names.

Generic family	Distinguishing features	Example fonts
Serif	"Embellishments" like finishing strokes or flare ends	Garamond Georgia Times New Roman

Sans-Serif	Plain stroke ends	Arial Helvetica Verdana
Cursive	Cursive or calligraphy characteristics like joined strokes	Brush Script M7 Comic Sans MS Lucida Handwriting
Fantasy	Decorative	<b>Impact</b> Luminari
Monospace	Constant width for letters, punctuation, and space	Consolas Courier New

Feedback?

#### Web fonts

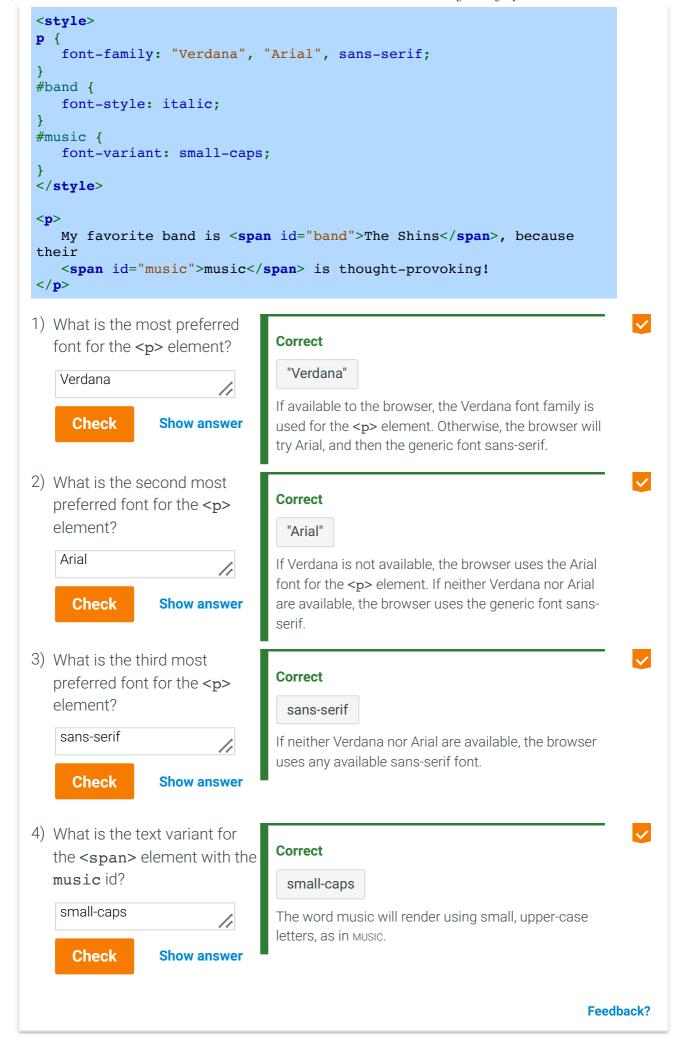
A limited number of fonts are available on all platforms: Arial, Courier New, Georgia, Times New Roman, and Verdana. Web developers can expand the number of fonts available by using web fonts. A **web font** is a CSS feature that allows custom fonts to be downloaded to the web browser. See the links in "Exploring further" for more information.

PARTICIPATION ACTIVITY

4.5.1: Computing font properties.



Given the HTML below, answer the following questions regarding font properties.



#### **Font sizes**

The font size can be specified using a predefined size name, a relative size name, or a number with an absolute or relative size unit. The predefined size names are xx-small, x-small, small, medium, large, x-large, and xx-large, where medium is the default size. The relative size names are smaller and larger which change the font size for an element to be smaller or larger than the font size of the parent element.

An **absolute size** is a size that is fixed and independent of other CSS sizes. Absolute size units include:

- cm centimeters
- mm millimeters
- in inches
- px pixels (1px = 1/96in)
- pt points (1pt = 1/72in)
- pc pica (1pc = 12pt)

A **relative size** is a size that is relative to another size. Some common relative size units include:

- em Relative to the element's font size. Ex: 2em = 2 × current font size.
- rem Relative to the root element's font size. Ex: 1.5rem = 1.5 × <html> element's font size
- vw 1% of the viewport's width. Ex: 10vw = 10% of browser's width.
- vh 1% of the viewport's height. Ex: 5vh = 5% of browser's height.
- % Percentage of the element's font size. Ex: 120% = 20% larger than the current font size.

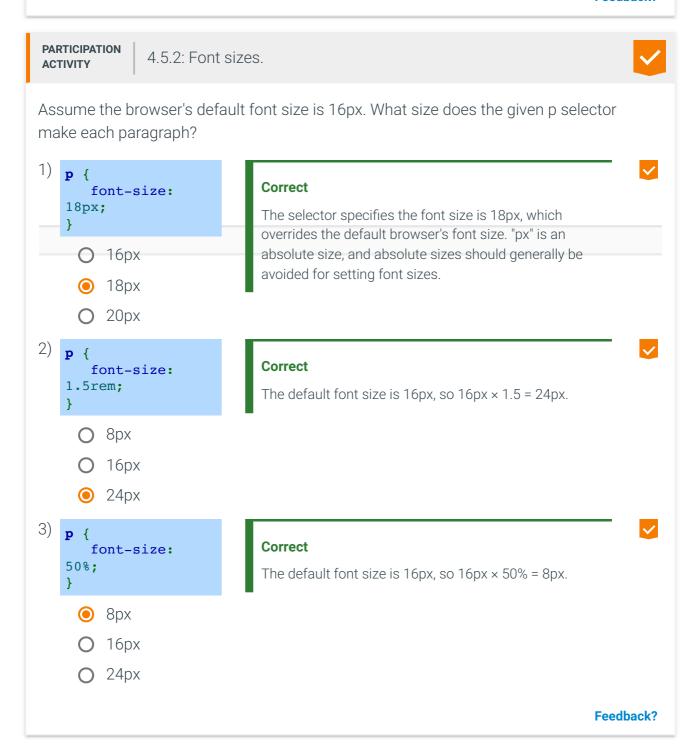
Most web browsers use a default font size of 16px. However, users who struggle to read 16px fonts may change the browser's default font size to a larger size. *Good practice is to use relative font sizes, which scale with changes to the default browser font size.* 

Table 4.5.2: Example font sizes.

Example CSS	Displayed
font-size: x-large;	You must be the change you wish to see in the world.
font-size: smaller; You must be the change you wish to see in the world.	
font-size: 16px; You must be the change you wish to see in the	
font-size: 1.5rem;	You must be the change you wish

	to see in the world.
font-size: 120%	You must be the change you wish to see in the world.

Feedback?



### **Text properties**

Many CSS properties control how text is displayed. Some common CSS text properties include:

- The **text-align** property changes the horizontal alignment of text for an element. Possible values are: left, right, center, and justify.
- The **text-decoration** property can add or remove text decorations like <u>underlining</u> or a <u>line through</u>. Possible values are: **overline**, **line-through**, **underline**, and **none**.
- The **text-transform** property converts letters to UPPERCASE, lowercase, or Capitalizes Initial Letters. Possible values are: **uppercase**, **lowercase**, and **capitalize**.
- The **text-indent** property specifies the first line's indentation amount.

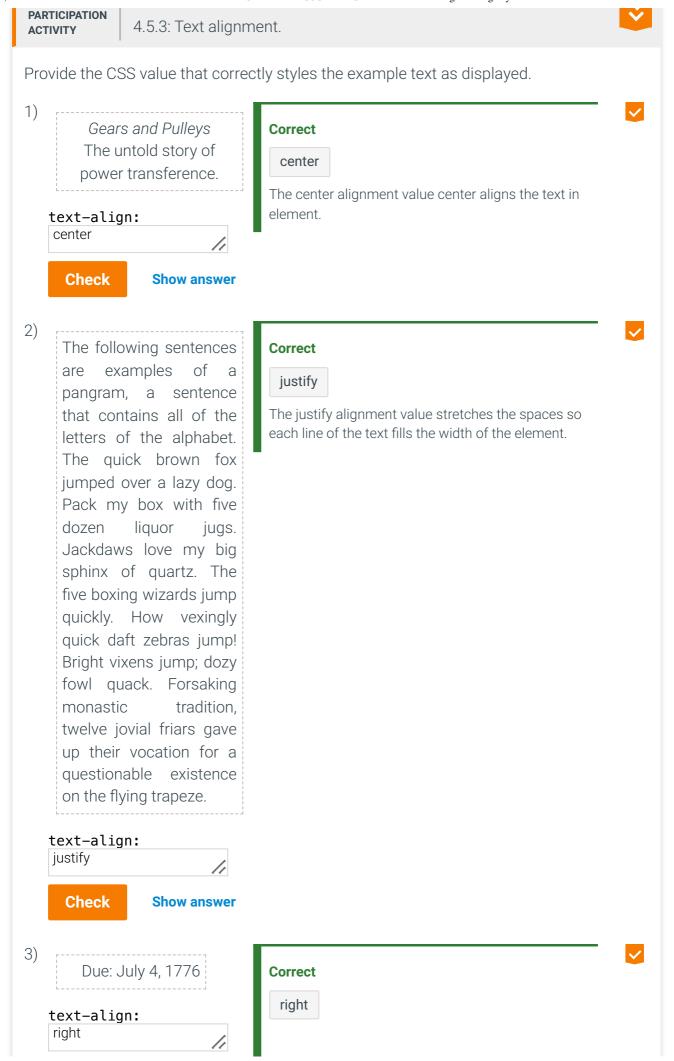
## Table 4.5.3: Text alignment examples.

Alignment	CSS example	Displayed
left	text-align: left	Example of wrapped text using the horizontal alignment CSS property.
right	text-align: right	Example of wrapped text using the horizontal alignment CSS property.
center	text-align: center	Example of wrapped text using the horizontal alignment CSS property.
justify	text-align: justify	Example of wrapped text using the horizontal alignment CSS property.

Feedback?

#### **Underlined links**

The CSS text-decoration: none is commonly used to remove the default underline from links. The underline helps users quickly identify links, so developers should use caution when removing link underlines. Relying solely on color to identify links can be problematic to users that are color blind or insensitive.



Check

**Show answer** 

The right alignment value pushes the text to the right side of the element.

Feedback?

PARTICIPATION ACTIVITY

4.5.4: Text properties.



Given the HTML below, select the correct text property and value to display the rendered browser text.

```
<style>
p {
    ....
}
</style>
Knowledge comes, but wisdom lingers. - Lord Tennyson
```

1)

Knowledge comes, but

wisdom lingers. -

<u>Lord Tennyson</u>

**Correct** 

underline draws a line under the text.

text-

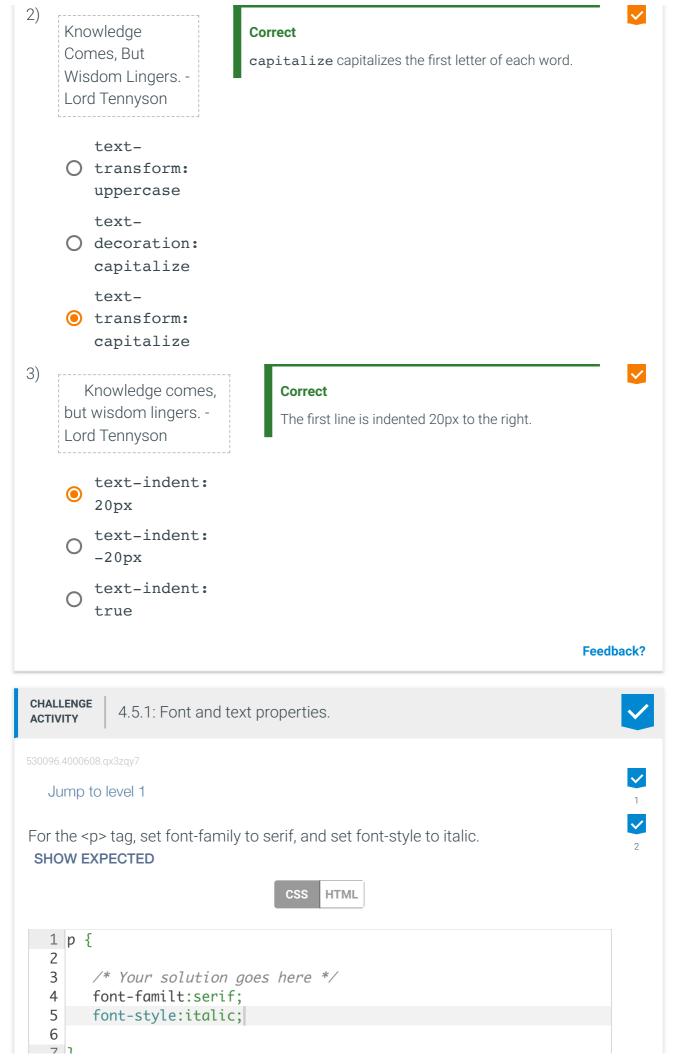
O decoration:
 overline

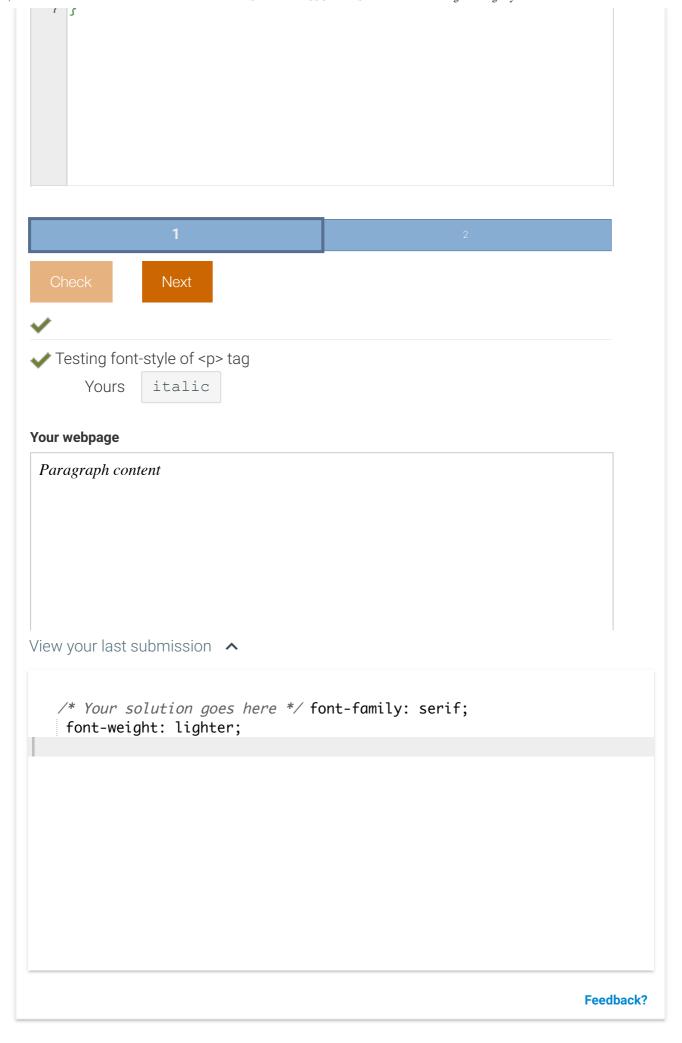
text-

decoration:
 underline

text-

O transform: underline





#### Exploring further:

- CSS Fonts from W3Schools
- CSS Text from W3Schools
- CSS Web Fonts from W3Schools
- What's the best font size for the web? by Robert Mohns

How was this section?



**Provide section feedback**