# **Creating layouts**

## CSS web layout

And you could argue that layout is one of the most important components of designing a good web page because layouts help divide a page into different sections, thus making the page more presentable.

The browser window that is visible to the user on the screen is called the view ports.

*CSS layouts is all about how the content of your web page is organized. Flexboxes, grids and boxes are all popular CSS layout options. Which of the following statements about CSS layouts are correct? Select all that apply.*

* *A grid is two-dimensional.*
* *The display property specifies the type of box you want to use for an HTML element.*
* *A flexbox is one-dimensional.*
* *Flexboxes and grids can help create rules for multiple elements.*

## Basic Flexbox

*Flexboxes are ideal for creating a:*

* *navigation bar*
* *Image gallery*
* *Search bar*

## Flex charts

*When using flexbox to create a bar chart, which one of the following properties will you use to control the alignment along the cross axis?*

* *Align items*

## CSS grids

*CSS grids are responsive, two-dimensional design layouts. Is the following statement true or false? The best way to ensure uniformity of rows and columns when setting grids is to use auto properties and the repeat function together.*

* *True*

## Grid Showcase

*As a developer at Little Lemon restaurant, you have to create a basic grid layout for your web page. You start by dividing the page into three sections, what are those sections? Select all that apply.*

* *Header*
* *Main*
* *Footer*

# **CSS Selectors**

## Widely used selectors

Graphical user interface, application, Teams

Description automatically generated

Graphical user interface, text, application

Description automatically generated

*With different variations of the attribute selectors, you can target different attributes of the HTML. You can select all items that have a class, or all items with a common value or a specific target by referencing its specific value. But these are not the only examples of what the attribute selector can target.*

* *True*

Text

Description automatically generated

Graphical user interface, application

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## Combination selectors

*What is the difference between Adjacent and Sibling combinators?*

* *Adjacent combinators will only target the first element after the specified elements while Sibling combinators target all elements of the same type that follow the specified element.*

## Pseudo-classes

Pseudo-class selectors give developers great control over what they select and style. By knowing how to use these selectors, you will not only improve the interactivity of your web pages, but you will also be able to add advanced styling without too much effort.

Graphical user interface, text, application

Description automatically generated

*Which of the following items are User action state pseudo-classes? Check all that apply*

* *Active*
* *Hover*

*Table

Description automatically generated*

## Practical use of pseudo

*You are developing a web page and want to add effect to links on the page. You use pseudo-classes related to web-link states to do this. But to prevent overwriting one of the rules, you must place them in the following order in the CSS file:*

* *link, visited, hover, active. (LVHA)*

# **CSS Effects**

## What is an effect

The formal definition of the word effect is a change that is a result or consequence of an action or other cause animations are a type of effect that has brought life like quality to web pages and today they are an all-pervasive part of web development. In other words, animations are graphics in motion, transitioning over time.

*Why is adding effects with CSS still popular today?*

* *It simplifies web development.*
* *It is easy to learn.*
* *It is quicker and less expensive to create effects with CSS than with other programs.*

web pages these days is to attract the attention of user’s web pages that use animation and effects optimally keep the attention of users without overwhelming them. Effects help highlight the special features on a given page. CSS styling and effects improve the creativity and aesthetics of websites.

But too much of it can also lead to distraction and drive users away from the page. Besides more animations, increase the size of your CSS files which can cause your web page to load slowly in areas with low bandwidth.

## Text effects

*You have text that is overflowing on your website and you want to only have it displayed when you hover over it. To do this your ‘text overflow’ property can be set to ellipses.*

* *Yes*

## CSS Transforms and transitions

*You have written code for boxes that rotate when you hover over them, but the effect happens instantaneously. Which one of the following properties will you use to show the motion when you hover over the boxes?*

* *Transition*

## CSS animation

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

*The purpose of the @keyframe rule is to control the timing of advanced animations.*

* *True*

*Graphical user interface, text, application, email

Description automatically generatedText, letter

Description automatically generated*

*Text

Description automatically generated with medium confidence*

## Animation examples

*To make an animation move at a consistent speed you should:*

* *Change the default timing function from ease to linear.*

# **Debugging**

## Common errors

One of the best practices you can apply to avoid common errors is using shorthand. A code with four properties can be written using one property instead.

*You wrote a class name that starts with a numeric value. Which one of the following errors did you make?*

* *Rule-based error*

## Handling errors

*When you want to run tests on your CSS code you need a linter tool. Why?*

* *CSS does not handle errors. It just passes through the code and simply ignores the lines that it does not understand. Although VS code will indicate general errors, a linter can help you find any problematic patterns or inefficiencies in your code.*

## Debugging tools

*The developer tools in the browser have several diagnostic functions you can use to check and debug your code. Is the following statement true or false?*

*The developer tools in the browser allow you to inspect the CSS rules applied to an HTML element.*

* *True*

## Browser-specific CSS

*You want to ensure that your webpage is compatible with different browsers and you make use of media rules. Which of the following are media rules used for? Select all that apply.*

* *Apply different styles to different media types or devices*
* *Specify the density of the schemes*

## UI testing

*True or false. The goal of cross-device testing is to ensure user experience consistency between different devices.*

* *True*