1. What is CSS?

CSS stands for Cascading Style Sheets. It is a styling language used to describe the look and formatting of a document written in HTML.

1. How do you include CSS in a web page?

CSS can be included in an HTML document using the <style> element within the <head> section, or by linking an external CSS file using the <link> element.

1. What is the difference between inline, internal, and external CSS?

Inline CSS is applied directly to an HTML element using the style attribute. Internal CSS is defined within the <style> tag in the HTML file. External CSS is stored in a separate file and linked to the HTML file using the <link> tag.

1. How do you select elements with CSS selectors?

CSS selectors allow you to target HTML elements. Common selectors include element selectors, class selectors, ID selectors, attribute selectors, and pseudo-classes.

1. What is the "box model" in CSS?

The box model refers to how CSS treats HTML elements as boxes, comprising content, padding, border, and margin.

1. What is the difference between padding and margin?

Padding is the space between an element's content and its border. Margin, on the other hand, is the space between an element and its neighboring elements.

1. How do you center an element horizontally and vertically in CSS?

To center an element horizontally, you can use the margin: 0 auto; CSS property. To center an element vertically, you can use display: flex; and align-items: center; or position: absolute; with appropriate values for top and bottom.

1. What is the difference between display: none; and visibility: hidden;?

display: none; removes the element from the document flow, effectively hiding it and not occupying any space. visibility: hidden; hides the element while still taking up the space it occupies.

1. What is the "float" property in CSS used for?

The float property is used to position an element to the left or right of its container, allowing other content to wrap around it.

1. What are pseudo-classes in CSS?

Pseudo-classes are keywords added to selectors that specify a specific state of the element, such as :hover, :active, :visited, etc.

1. What are pseudo-element in css?

Pseudo-elements are used to style a specific part of an element. They are represented by double colons "::" in CSS3, but in CSS2.1, they are represented by a single colon ":" e.g : ::before, ::after, ::first-line, ::first-letter,etc.

1. What is a CSS sprite?

A CSS sprite is a collection of multiple images combined into a single image file. It reduces the number of server requests required to load multiple images, resulting in improved performance.

1. What is the difference between a class and an ID selector?

A class selector is denoted with a period (.) and can be applied to multiple elements. An ID selector is denoted with a hash (#) and can only be applied to a single element on the page.

1. What is the "box-sizing" property used for?

The box-sizing property is used to specify how the total width and height of an element are calculated, including or excluding the padding and border.

1. What is the purpose of the "z-index" property in CSS?

The z-index property determines the stacking order of positioned elements along the z-axis. Elements with a higher z-index value will appear in front of elements with a lower value.

1. What is the CSS "display" property used for?

The display property specifies how an element is displayed. Common values include block, inline, inline-block, and none.

1. What is the "clearfix" technique in CSS used for?

The clearfix technique is used to contain floated elements within a parent element, preventing the parent from collapsing or stretching to accommodate the floated elements.

1. What are media queries in CSS used for?

Media queries allow you to apply different CSS styles based on specific conditions, such as screen size, device orientation, or resolution. They are commonly used for responsive web design.

1. How do you apply a CSS style to only the first line of a paragraph?

You can use the ::first-line pseudo-element to target and apply styles to the first line of a block-level element, such as a paragraph.

1. What is the CSS "position" property used for?

The position property specifies how an element is positioned on the page. Common values include static, relative, absolute, and fixed.

1. How do you create a fixed footer at the bottom of a web page?

You can use the position: fixed; property on the footer element and set bottom: 0; to ensure it stays fixed at the bottom of the page.

1. What is the CSS "transition" property used for?

The transition property specifies the animation effect when a CSS property changes its value. It allows you to define the duration, timing function, and delay of the transition.

1. What is the CSS "flexbox" layout?

Flexbox is a CSS layout module that provides a flexible way to align and distribute space among elements in a container. It allows for easy creation of responsive and flexible layouts.

1. What is the difference between "nth-child" and "nth-of-type" in CSS?

The nth-child selector selects elements based on their position among siblings, whereas the nth-of-type selector selects elements based on their position among siblings of the same element type.

1. What is the CSS "background" property used for?

The background property is used to set the background color, image, and other related properties of an element.

1. What is the "rem" and em unit in CSS?

The rem unit represents the root font-size of the document. It allows for consistent sizing relative to the root element, regardless of nested elements.

Em: The "em" unit represents the font size of the parent element. When you specify a size in "em", it will be relative to the font size of the immediate parent element. If you change the font size of a parent element, the child elements using "em" will adjust accordingly

The key difference between "rem" and "em" is that "rem" is always relative to the root element's font size, while "em" is relative to the font size of the immediate parent element.

1. How can you vertically align text in CSS?

You can use the vertical-align property to align text within an inline or table-cell element. For other block-level elements, you can use techniques like flexbox or CSS Grid to achieve vertical alignment.

1. What is the CSS "transform" property used for?

The transform property is used to apply 2D or 3D transformations to an element, such as rotation, scaling, skewing, and translating.

1. How do you create a responsive grid layout using CSS?

You can create a responsive grid layout using CSS Grid or a framework like Bootstrap or Foundation. CSS Grid provides powerful grid capabilities to define column and row layouts.

1. What is the difference between "em" and "rem" units in CSS?

Both em and rem units are relative units. However, em is relative to the font-size of the element itself, while rem is relative to the root element's font-size.

1. What is the "pseudo-element" in CSS?

A pseudo-element is a keyword added to a selector that allows you to style a specific part of an element. Examples include ::before and ::after, which add content before or after an element's content.

1. How can you hide an element visually but keep it accessible to screen readers?

You can use the CSS property clip or clip-path to visually hide an element while still keeping it accessible to screen readers.

1. What is the CSS "calc()" function used for?

The calc() function allows you to perform calculations to determine the value of a CSS property. It is commonly used for dynamic sizing and positioning.

1. How do you apply different styles for different browsers in CSS?

You can use browser-specific CSS hacks, conditional comments, or feature detection libraries like Modernizr to apply different styles for different browsers.

1. What is the CSS "box-shadow" property used for?

The box-shadow property is used to add a shadow effect to an element. It allows you to control the shadow's color, size, blur, and position.

1. What is the purpose of the CSS "pointer-events" property?

The pointer-events property controls whether an element can be the target of mouse events. It can be used to make an element non-interactive or to allow interaction with underlying elements.

1. How do you create a responsive navigation menu in CSS?

You can create a responsive navigation menu using techniques like media queries, flexbox, or CSS Grid. By adjusting the layout and visibility of menu items based on the screen size, you can achieve a responsive menu.

1. What is the CSS "opacity" property used for?

The opacity property specifies the transparency level of an element. It ranges from 0 (completely transparent) to 1 (fully opaque).

1. How do you apply rounded corners to an element in CSS?

You can use the border-radius property to apply rounded corners to an element. Specify a value in pixels or percentages to control the roundness of the corners.

1. What is the CSS "word-wrap" property used for?

The word-wrap property specifies whether long words should be broken and wrap onto the next line. It helps prevent overflow and ensures proper text wrapping.

1. How do you create an animation in CSS?

You can create animations in CSS using the @keyframes rule along with the animation property. Define the animation steps and properties at different keyframes, and then apply the animation to an element using the animation property.

These questions cover a wide range of CSS topics that are commonly asked in interviews. Make sure to review and practice your understanding of CSS concepts and techniques to prepare effectively.