

Instructions: Research common interview questions online revolving around HTML, CSS, and AJAX and create 20 flash cards from the information you find. Study your flash cards regularly to better prepare for interviews. Fill out the table below with the information you put on each of your flash cards.

Front of Card	Back of Card
What is HTML?	HTML is a markup language used for creating
	and structuring web pages and applications. It
	consists of tags and attributes that define the
	structure and content of a web page. It is the
	backbone of the web and is used with other
	technologies like CSS and JavaScript to
	create interactive and engaging web
	experiences.
What is a Tag in HTML?	In HTML, a tag is a code snippet used to
	define an element within a web page,
	enclosed in angle brackets. They usually
	come in pairs, with an opening tag and a
	closing tag, that surround the content to be
	displayed. Tags are used to define the
	structure and content of a web page.
Can you define HTML attributes?	In HTML, attributes provide additional
	information about an element, such as its
	properties or behavior. Attributes are included
	within an opening tag and consist of a name
	and a value separated by an equal sign. For
	example, the "src" attribute in an "img" tag
	specifies the URL of the image to be
	displayed. Attributes are an important part of
	HTML and are used to enhance the
	functionality and appearance of web pages.
What is the key difference between HTML	HTML elements and tags are related but not
Elements and Tags?	the same. An HTML element refers to a
	complete set of opening and closing tags,
	including any content between them. An
	HTML tag, on the other hand, refers to the
	opening or closing tag that identifies the



	element and is enclosed in angle brackets. In
	short, an HTML tag is a snippet of code that
	defines an element, while an HTML element
	is the complete structure that includes the
	opening and closing tags and any content
	between them.
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If you want to display some HTML data in a	To display HTML data in a table, use the
table in tabular format, which HTML tags	tag to define the table, the tag to
will you use?	define table rows, and the and tags
	to define table header and data cells,
	respectively. Additional tags like <thead>,</thead>
	, and <tfoot> can be used to structure</tfoot>
	the table and add header and footer sections.
Define HTML Layout.	HTML layout refers to the structure and
	organization of elements within a web page. It
	involves using HTML tags to define different
	sections of a web page, such as headers,
	footers, navigation bars, and content areas.
	HTML layout is important for creating
	visually appealing and easy-to-navigate web
	pages that provide a good user experience.
What is Semantic HTML?	Semantic HTML is the practice of using
	HTML tags that have meaning beyond their
	visual representation. It improves
	accessibility, SEO, and the overall structure
	and clarity of a web page's code. By using
	descriptive and meaningful tags, semantic
	HTML helps web developers and browsers to
	better understand the purpose and content of a
	web page.
What is CSS?	CSS is a style sheet language used to control
	the visual appearance of HTML or XML
	documents. It allows web developers to apply
	rules to HTML elements, including layout,
	colors, fonts, and other design elements. CSS
	is essential for creating modern and visually
	appealing websites.
What are the advantages of CSS?	CSS provides several advantages for web
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	 Separation of presentation and content, which makes it easier to maintain and update the appearance of a website without modifying the underlying HTML code. Greater control and flexibility over the visual appearance of a website, allowing for more complex and sophisticated designs. Improved web page loading times and performance, as CSS files can be cached and reused across multiple pages, reducing the need for repetitive HTML code.
What are the benefits of CSS sprites?	CSS sprites offer several benefits for web
	developers, including:
	1. Reduced HTTP requests, as multiple
	images can be combined into a single
	sprite, reducing the number of
	requests needed to load a web page. 2. Faster web page loading times and
	improved performance, as the
	combined image file can be cached
	and reused across multiple pages.
	3. Improved user experience, as the web
	page can be loaded more quickly and
	with fewer visual artifacts, resulting in
	a smoother and more seamless
	experience for users.
What is the use of ruleset?	In CSS, a ruleset is a set of instructions that
	define how an HTML element should be
	styled. It consists of a selector and one or
	more declarations, which specify the style
	properties and values to be applied to the element. Rulesets allow web developers to
	control the visual appearance of a web page
	and create a consistent design across multiple
	pages.



What is the difference between class selectors	In CSS, class selectors and id selectors are
and id selectors?	both used to target specific HTML elements
	for styling, but they have some key
	differences:
	1. Class selectors can be used to target
	multiple elements that share a
	common class name, while id
	selectors are used to target a single
	element with a unique ID attribute.
	2. Class names can be reused on multiple
	elements, while ID attributes should
	be unique to a single element.
	3. Class selectors are defined using a
	period (.), while id selectors are
	defined using a pound sign (#).
	In summary, class selectors are more flexible
	and can be applied to multiple elements,
	while id selectors are more specific and
	should only be used for unique elements.
	should only be used for unique elements.
Explain universal selector.	In CSS, the universal selector is represented
	by an asterisk (*) and matches any HTML
	element. It can be used to apply styles to all
	elements on a web page or to reset the default
	styles of HTML elements. The universal
	selector is a powerful tool but should be used
	with caution, as it can potentially slow down
	the performance of a web page if overused.
What is the float property of CSS?	The float property in CSS is used to control
	the position of an HTML element within its
	parent container. It allows the element to be
	moved to the left or right and allows other
	elements to wrap around it. The float property
	is often used in conjunction with other layout
	techniques to create complex and responsive
	web page designs.
What is the purpose of the z-index and how is	The z-index property is used in CSS to
it used?	control the stacking order of positioned
	elements on a web page. It specifies which
	elements should appear in front of or behind



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	other elements when they overlap. The z- index value can be a positive or negative integer, with higher values appearing on top of lower values. It is commonly used in situations where elements have been positioned using CSS's position property to rearrange the default stacking order and achieve a more visually appealing layout
What is AJAX?	AJAX is a technique used in web development to create asynchronous web applications that allow the web page to update content without requiring a page reload. It uses a combination of technologies including HTML, CSS, JavaScript, and XML/JSON to send and receive data asynchronously between the client-side and server-side of an application, providing a more seamless and interactive user experience. AJAX is commonly used to implement dynamic user interfaces and to load data in real-time without having to refresh the entire page.
What are the disadvantages of AJAX?	 It can make debugging and error handling more difficult due to the asynchronous nature of the requests. It can cause issues with browser history and bookmarks, as it doesn't update the URL when content changes dynamically. It may not be accessible to users who have JavaScript disabled or who are using assistive technologies such as screen readers.
What is the difference between synchronous and asynchronous requests?	Synchronous requests are blocking, meaning that the code execution is halted until the request is completed, which can cause the page to freeze or become unresponsive. Asynchronous requests, on the other hand, allow the code to continue executing while the request is being processed, which provides



	a more seamless user experience.
	Asynchronous requests are often used in
	AJAX applications to avoid page reloads and
	provide dynamic content updates.
What are the properties of XMLHttpRequest?	The XMLHttpRequest (XHR) object is a key
	component in making AJAX requests in
	JavaScript. Some of its properties include the
	ability to send HTTP requests to a server,
	track the progress of those requests, and
	receive and manipulate the response data. It
	also allows for the use of callbacks and event
	listeners to handle the response data
	asynchronously.
What is JSON in AJAX?	In AJAX, JSON (JavaScript Object Notation)
	is a lightweight data format used for
	exchanging data between the client and
	server. It is based on JavaScript syntax and
	can be easily parsed and generated by
	JavaScript code. JSON has become a popular
	alternative to XML for AJAX applications
	due to its simplicity, smaller size, and faster
	parsing speeds.