Advanced HTML Concepts & Common Interview Questions

Advanced HTML Concepts

1. HTML5 New Elements

- Semantic tags: <article>, <section>, <aside>, <nav>, <figure>, <figcaption>.

- Media: <audio>, <video>, <source>.

- Interactive: <details>, <summary>, <dialog>.

- <canvas> for graphics, <svg> for vector images.

Source: https://developer.mozilla.org/en-US/docs/Web/Guide/HTML/HTML5

2. HTML APIs

- Geolocation API, Drag and Drop API, Web Storage API (localStorage & sessionStorage), Offline Web Apps.

Source: https://www.w3schools.com/html/html5_intro.asp

3. Forms (Advanced)

- New input types: email, date, range, color, number.

- Built-in validation: required, pattern, min, max.

- datalist for autocomplete.

Source: https://developer.mozilla.org/en-US/docs/Learn/Forms

4. Multimedia Elements

- <audio> & <video> with controls, autoplay, loop, muted.

Source: https://developer.mozilla.org/en-US/docs/Learn/HTML/Multimedia_and_embedding

5. Accessibility

- ARIA attributes: aria-label, aria-hidden.

- Use semantic elements to support screen readers.

Source: https://developer.mozilla.org/en-US/docs/Web/Accessibility

6. SEO and Metadata

- <meta> tags: description, keywords.

- Correct heading structure and alt attributes for images.

Source: https://developers.google.com/search/docs/beginner/seo-starter-guide

7. Custom Data Attributes

- data-* attributes: <div data-user-id="123">Hello</div>

Source: https://developer.mozilla.org/en-US/docs/Learn/HTML/Howto/Use_data_attributes

8. Responsive Design

- <meta name="viewport"> for mobile scaling.

- CSS media queries for layout.

Source: https://developer.mozilla.org/en-US/docs/Learn/CSS/CSS_layout/Responsive_Design

9. iframes and Embedding

- <iframe> to embed external content with sandbox & allow attributes.

Source: https://developer.mozilla.org/en-US/docs/Web/HTML/Element/iframe

10. Deprecated Tags and Best Practices

- Avoid old tags like <center>, <font>. Use CSS instead.

Source: https://www.w3schools.com/tags/tag_center.asp

Common HTML Interview Questions

Basic:

1. What is HTML? Difference between HTML and HTML5?

2. What are semantic tags? Why are they important?

3. Difference between <div> and <span>?

4. Explain block-level vs inline elements.

5. What is DOCTYPE? Why is it needed?

Intermediate:

6. What are data attributes? How to use them?

7. Purpose of alt attribute in images?

8. Difference between <section> and <article>?

9. localStorage vs sessionStorage?

10. What is the ==viewport== meta tag?

Advanced:

11. How to embed a video in HTML?

12. What are ARIA attributes?

13. Use of <canvas> and <svg>?

14. How does HTML support offline web apps?

15. How to make an HTML page responsive?

Sources:

- MDN HTML interview questions: https://developer.mozilla.org/en-US/docs/Learn/HTML/Introduction_to_HTML/HTML_Interview_Questions

- freeCodeCamp guide: https://www.freecodecamp.org/news/html-interview-questions/

- GeeksforGeeks: https://www.geeksforgeeks.org/html-interview-questions/