Frontend Developer Interview Preparation Guide

For 2 Years Experience Level

HTML INTERVIEW QUESTIONS & SOLUTIONS

1. What is the difference between <div> and elements?

Answer:

- <div> is a block-level element that takes up the full width available and starts on a
 new line
- is an inline element that only takes up as much width as necessary and doesn't start on a new line

Example:

html

```
<div>This is a block element</div>
<div>This starts on a new line</div>
<span>This is inline</span> <span>This continues on same
line</span>
```

2. Explain HTML5 semantic elements and their importance.

Answer: HTML5 semantic elements provide meaning to the structure of web content, improving accessibility and SEO.

Key Semantic Elements:

- <header> Page or section header
- <nav> Navigation links
- <main> Main content area
- <article> Independent, self-contained content
- <section> Thematic grouping of content
- <aside> Content aside from main content
- <footer> Page or section footer

Example:

html

```
<header>
 <nav>
   <l
    <a href="#home">Home</a>
    <a href="#about">About</a>
   </nav>
</header>
<main>
 <article>
  <h1>Article Title</h1>
   Article content...
 </article>
 <aside>
   Related links...
 </aside>
</main>
<footer>
 © 2024 Company Name
</footer>
```

3. What are HTML attributes and how do you use data attributes?

Answer: HTML attributes provide additional information about elements. Data attributes allow storing custom data.

Data Attributes:

- Start with data-
- Can store custom information
- Accessible via JavaScript using dataset

Example:

html

```
<div id="user" data-user-id="123" data-role="admin"
data-active="true">
    User Profile
</div>
<script>
const user = document.getElementById('user');
console.log(user.dataset.userId); // "123"
console.log(user.dataset.role); // "admin"
console.log(user.dataset.active); // "true"
```

4. Explain form validation and different input types in HTML5.

Answer: HTML5 provides built-in form validation and new input types for better user experience.

Input Types:

- email Email validation
- tel Telephone numbers
- url URL validation
- number Numeric input
- date Date picker
- range Slider control

Validation Attributes:

- required Field must be filled
- pattern Regular expression validation
- min/max For numeric inputs
- minlength/maxlength For text inputs

Example:

html

5. What is the difference between localStorage, sessionStorage, and cookies?

Answer:

Feature	localStorage	sessionStorage	Cookies
Storage Limit	~5-10MB	~5-10MB	~4KB
Lifetime	Until manually cleared	Until tab closes	Set expiration date

Server No No Yes (sent with requests)

Access

Scope Same origin Same tab/window Same domain

Example:

html

```
<script>
// localStorage
localStorage.setItem('user', 'john');
localStorage.getItem('user'); // 'john'

// sessionStorage
sessionStorage.setItem('temp', 'data');
sessionStorage.getItem('temp'); // 'data'

// Cookies
document.cookie = "username=john; expires=Thu, 18 Dec 2024
12:00:00 UTC";
</script>
```