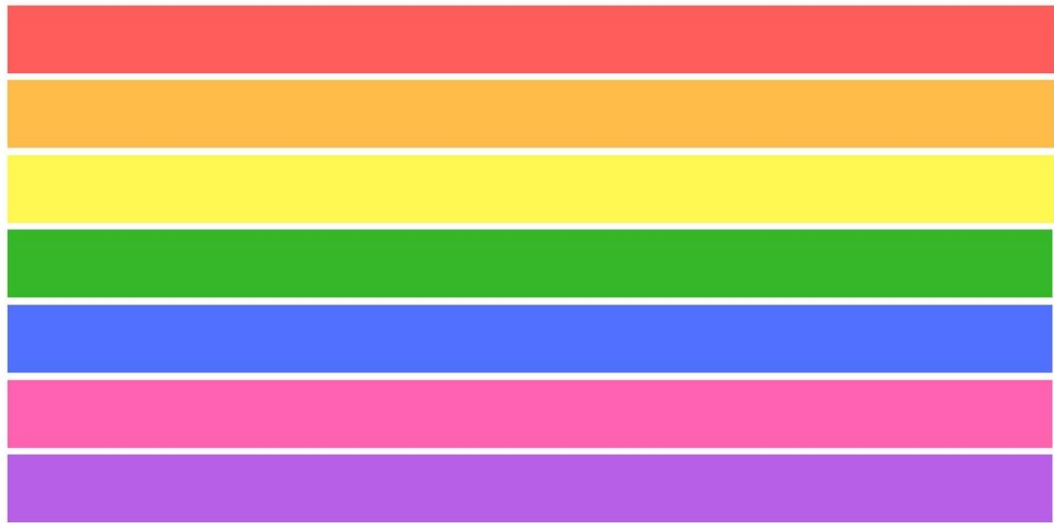


1. What are inline and block elements in HTML and the difference between them ? Name a few inline and block elements?

BLOCK-LEVEL ELEMENTS:



INLINE ELEMENTS:



Inline Elements

Inline elements are elements that flow within the content and do not create a new block-level box. They are typically used for text-level styling and are often nested within block-level elements.

Examples of inline elements:

- `a`: Anchor/link element used for hyperlinks.
- `strong`: Represents strong importance or emphasis.
- `em`: Represents emphasized text.
- `span`: A generic inline container used for styling or scripting purposes.
- `img`: Inline image element for displaying images within text.
- `br`: Line break element to force a new line within text.
- `input`: Input element for form controls like text fields, checkboxes, and radio buttons.

Block Elements

Block elements create a new block-level box and typically start on a new line, occupying the full width available within their containing element. They are used for structural elements like headings, paragraphs, lists, and dividers.

Examples of block elements:

- `p`: Paragraph element for organizing text into paragraphs.
- `div`: A generic block-level container used for grouping and styling content.
- `h1`, `h2`, `h3`, etc.: Heading elements for defining the document's headings with varying levels of importance.
- `ul`: Unordered list element for creating bullet-pointed lists.
- `ol`: Ordered list element for creating numbered lists.
- `li`: List item element used within `` and `` lists.
- `blockquote`: Represents a block-level quotation.

Example 1:

HTML

```
<span>This is <strong>important</strong> text.</span>
```

Output:

This HTML code will render as a single line of text:

This is **important** text.

Explanation:

- `` is an inline element that wraps around the entire text.
- `` is also an inline element, used for emphasizing text.
- The text "important" is enclosed within the `` element, which makes it appear bold or emphasized.

Example 2 (incorrect):

HTML

```
<!-- This is generally considered incorrect -->
```

```
<span>This is <div>not recommended</div> text.</span>
```

Output:

While some web browsers may attempt to render this, it's not recommended, and the output can be unpredictable. It might appear as a single line of text or with unexpected styling.

Explanation:

- `` is an inline element that wraps around the entire text.
- `<div>` is a block-level element used for creating structural divisions in content.
- Placing a block-level element like `<div>` inside an inline element like `` is not considered valid HTML and can lead to unexpected rendering and styling issues. It's generally best to avoid such practices in web development.

2. How to work with images in HTML and explain in detail `` tag important attributes.

To work with images in HTML, you use the `` tag. The `` tag is an inline HTML element used to display images. It has two required attributes: `src` and `alt`.

src attribute: The `src` attribute specifies the path to the image file you want to display. This can be a relative or absolute URL.

alt attribute: The `alt` attribute provides alternative text for the image. It is essential for accessibility purposes and is displayed when the image cannot be loaded or is read aloud by screen readers.

Relative vs. Absolute URLs:

A relative URL specifies the path to the image relative to the location of the HTML file. An absolute URL is a complete web address (e.g., starting with "http://") that points to the image on a different server or website.

Example:

HTML

```

```

In this code:

- `src="image.jpg"` specifies that the image file is located in the same directory as your HTML file (index.html).
- `alt="An example image"` provides alternative text for the image.

If your HTML file (index.html) and the image file (dinosaur.jpg) are both in the project directory, and the image is inside an "images" subdirectory, you should use a relative path to reference the image.

Here's the correct HTML code to embed the image:

HTML

```
<img src = "images/dinosaur.jpg" alt="Dinosaur">
```

In this code:

- `src="images/dinosaur.jpg"` specifies that the image is located in the "images" subdirectory relative to the location of your HTML file (index.html).
- `alt="Dinosaur"` provides alternative text for the image.

3. How to create lists in HTML?

In HTML, you can create lists using three main types of list elements: ordered lists, unordered lists, and definition lists. Here's how to create each type of list:

1. Ordered Lists (``)

Ordered lists are used to create lists where each item is sequentially numbered. By default, they use Arabic numerals (1, 2, 3, etc.), but you can change the numbering style using CSS.

```
```html

 Item 1
 Item 2

```

```
 Item 3

...

```

#### Output

1. Item 1
2. Item 2
3. Item 3

You can also use other list styles like lowercase letters (`<ol type="a">`) or uppercase Roman numerals (`<ol type="I">`).

## **2. Unordered Lists (`<ul>`)**

Unordered lists are used to create lists where each item is preceded by a bullet point by default, but you can customize the list-style using CSS.

```
```html
<ul>
  <li>Item A</li>
  <li>Item B</li>
  <li>Item C</li>
</ul>
...

```

Output

- Item A
- Item B
- Item C

3. Definition Lists (`<dl>`)

Definition lists are used to create lists of terms and their corresponding definitions. They consist of `<dt>` (definition term) and `<dd>` (definition description) elements.

```
```html
<dl>
 <dt>Term 1</dt>
 <dd>Definition of Term 1</dd>
 <dt>Term 2</dt>
 <dd>Definition of Term 2</dd>
</dl>

```

```

 . . .
Output
Term 1
 Definition of Term 1
Term 2
 Definition of Term 2

```

This creates a list where each term is followed by its definition.

You can nest lists inside one another to create more complex structures if needed. For example, you can nest an ordered or unordered list inside a list item of another list. Here's an example of a nested list:

```

```html
<ul>
  <li>Main Item 1</li>
  <li>Main Item 2
    <ul>
      <li>Sub-item A</li>
      <li>Sub-item B</li>
    </ul>
  </li>
  <li>Main Item 3</li>
</ul>
```

```

Output:

- Main Item 1
- Main Item 2
  - Sub-item A
  - Sub-item B
- Main Item 3

This code creates an unordered list with a nested unordered list inside the second list item.

Remember to use appropriate list types based on the content and structure of your information. Lists are a fundamental way to organize and present content in HTML documents.

## 4. How to interlink web pages and navigate people to other websites?

To interlink web pages, you use the HTML `<a>` tag. The `<a>` tag creates a hyperlink, which is a clickable link that takes the user to another web page or resource.

To create a hyperlink, you simply wrap the text that you want to be clickable in the `<a>` tag and specify the URL of the page or resource that you want to link to in the `href` attribute.

For example, the following code would create a hyperlink to the Google homepage:

HTML

```
Google
```

When a user clicks on this link, they will be taken to the Google homepage.

You can also use the `<a>` tag to link to internal pages on your own website. To do this, you simply specify the relative URL of the page that you want to link to in the `href` attribute.

For example, the following code would create a hyperlink to the `about.html` page on the same website:

HTML

```
About Us
```