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# INSERTING IMAGES AND LISTS IN A WEB PAGE

## IMAGES:

The HTML <img> tag is used to embed an image in a web page.

Images are not technically inserted into a web page; images are linked to web pages. The <img> tag creates a holding space for the referenced image.

The <img> tag is empty, it contains attributes only, and does not have a closing tag.

The <img> tag has two required attributes:

- src - Specifies the path to the image
- alt - Specifies an alternate text for the image

## EXAMPLE:

<img src="pic_trulli.jpg" alt="Italian Trulli">

<img src="img_girl.jpg" alt="Girl in a jacket">

### src ATTRIBUTE:

- When a web page loads, it is the browser, gets the image from a web server and inserts it into the page.

### alt ATTRIBUTE:

- The required alt attribute provides an alternate text for an image

- The value of the alt attribute should describe the image:

<img src="img_chania.jpg" alt="Flowers in Chania">

## IMAGE SIZE - WIDTH AND HEIGHT :

- You can use the style attribute to specify the width and height of an image.
- The <html> element is the root element of an HTML page

<img src="img_girl.jpg" alt="Girl in a jacket" style="width:500px;height:600px;">

- Alternatively, you can use the width and height attributes

- The width and height attributes always define the width and height of the image in pixels.

<img src="img_girl.jpg" alt="Girl in a jacket" width="500" height="600">

## EXAMPLE:

```
<!DOCTYPE html>
<html>
<head>
</head>
<body>

<img src="html5.gif" alt="HTML5
Icon" width="128" height="128">

<img src="html5.gif" alt="HTML5
Icon" style="width:128px;height:128px;">

</body>
</html>
```

**IMAGE AS A LINK :**

- To use an image as a link, put the <img> tag inside the <a> tag:

```
<a href="default.asp">
  <img src="smiley.gif" alt="HTML tutorial" style="width:42px;height:42px;">
</a>
```

**COMMON IMAGE FORMATS:**

| ABBREVA-TION | FILE FORMAT | FILE EXTENSION |
|---|---|---|
| **APNG** | Animated Portable Network Graphics | **.apng** |
| **GIF** | Graphics Interchange Format | **.gif** |
| **JPEG** | Joint Photographic Expert Group image | **.jpeg, .jpg** |
| **PNG** | Portable Network Graphics | **.png** |
| **SVG** | Scalable Vector Graphics | **.svg** |

**HTML LISTS:**

- HTML lists allow web developers to group a set of related items in lists.

An unordered HTML list:

- Item
- Item
- Item
- Item

An ordered HTML list:

1. First item
2. Second item
3. Third item
4. Fourth item

**UNORDERED HTML LIST:**

- An unordered list starts with the <ul> tag.
- Each list item starts with the <li> tag.
- The list items will be marked with bullets (small black circles).

   **EXAMPLE**:

```
<ul>
  <li>Coffee</li>
  <li>Tea</li>
  <li>Milk</li>
</ul>
```

**ORDERED HTML LIST:**

- An ordered list starts with the <ol> tag.

- Each list item starts with the <li> tag.

   **EXAMPLE**:

```
<ol>
  <li>Coffee</li>
  <li>Tea</li>
  <li>Milk</li>
</ol>
```

**HTML DESCRIPTION LISTS:**

- HTML also supports description lists.

- A description list is a list of terms, with a description of each term.

- **EXAMPLE**:
  ```
  <dl>
   <dt>Coffee</dt>
   <dd>- black hot drink</dd>
   <dt>Milk</dt>
   <dd>- white cold drink</dd>
   </dl>
  ```

- **HTML UNORDERED LIST:**
  ```
  <ul>
   <li>Coffee</li>
   <li>Tea</li>
   <li>Milk</li>
  </ul>
  ```
- **UNORDERED HTML List - Choose List Item Marker:**

  ```
  <ul style="list-style-type:circle;">
   <li>Coffee</li>
   <li>Tea</li>
   <li>Milk</li>
  </ul>
  ```

  ```
  <ul style="list-style-type:square;">
   <li>Coffee</li>
   <li>Tea</li>
   <li>Milk</li>
  </ul>
  ```

- **NESTED HTML LISTS:**

  ```
  <ul>
   <li>Coffee</li>
   <li>Tea
   <ul>
   <li>Black                          tea</li>
     <li>Green                        tea</li>
    </ul>
   </li>
   <li>Milk</li>
  </ul>
  ```

- **HTML ORDERED LIST:**
  ```
  <ol>
   <li>Coffee</li>
   <li>Tea</li>
   <li>Milk</li>
  </ol>
  ```

- **ORDERED HTML List - The Type Attribute:**

| TYPE | DESCRIPTION |
|------|-------------|
| Type="1" | The list items will be numbered from numbers (default) |
| Type="A" | The list items will be numbered from Upper case letters |
| Type="a" | The list items will be numbered from lowercase letters |
| Type="I" | The list items will be numbered from uppercase roman letter |
| Type="i" | The list items will be numbered from lowercase roman letter |

- **HTML LIST TAGS:**

| TAGS | DESCRIPTION |
|------|-------------|
| <ul> | Defines an unordered list |
| <ol> | Defines an ordered list |
| <li> | Defines a list item |
| <dl> | Defines a description list |
| <dt> | Defines a term in a description list |
| <dd> | Describes the term in a description list |

## CHECK YOURSELF

1. _____ attribute is used to specify the location of an image file.
A) name
B) align
C) src
D) alt

2. The src attribute used with <img> tag stands for
A) Source
B) Select
C) Structure
D) Screen

3. The correct HTML code to insert an image
A)<img> image.gif </gif>
B)<image src="image.gif">
C)<image href="image.gif">
D) <img src="image.gif">

4. Which tag is used for List items?
A)<li>
B)<ol>
C)<ul>
D) <dl>

5. Which of the following can't be the value of list-style-type?
A)square
B)circle
C)ellipse
D) disc

## STRETCH YOURSELF

1. Write an HTML code to create the following lists:
Streams
o Non-Medical science
o Medical science
o Commerce
o Humanities
Subjects for Non-Medical Science
o English
o Computer Science
o Physics
o Chemistry
o Maths
Give examples of two structural tags and two formatting tags in HTML.

2. What are the different possible values of ALIGN attributes of <Img> tag? What are their effects?

3. What happens if the image to be displayed in the web page is not available? What is the use of ALT attribute in such a case?

## ANSWERS

Answers to Check Yourself:
1. C
2. A
3. D
4. A
5. C