

# Images

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## Images in HTML

- Images are of various types.
- Web supports only few types.
- MIME is "Multipurpose Internet Mail Extensions"

Image Type	MIME	Extention
APNG Animated Portable Network Graphics	image/apng	.apng
PNG Protobal Network Graphics	image/png	.png
GIF Graphic Interchange Format	image/gif	.gif
JPEG Joint Photographic Expert Group	image/jpeg	.jpg, .jpeg, .jfif
TIFF Tagged Image File Format	image/tiff	.tiff
ICO Microsoft Icon	image/icon	.ico
SVG Scalar Vector Graphics	image/svg	.svg
Webp Web Picture Format	image/webp	.webp

- PNG | APNG      - High Definition
- High Resolution
  - More space in memory
  - Use PNG or APNG when you are providing images for download.
  - Not good for on screen presentation [more memory]

JPG | JPEG      - High Definition

- High Resolution
- Compressed Image
- Less space in memory
- Good for on screen presentation
- Not good for zoom and download.

GIF              - Low definition

- Low resolution
- same memory
- less colors [256]
- animated images
- bullets, logo, lines

SVG              - It is XML format image

- Vector Graphics
- Not pixel based
- You zoom in the picture, it quality will increase.
- Good for architectural diagrams

Webp            - It is web picture format

- It can embed picture along with content and locks the content.
- you can't download

TIFF             - Sliced image format

- Scanned documents

- You can embed images into web page by using <img> element.
- It is a void element.

<img>

Attributes:

1. alt        : It specifies the alternative text to display when image fails to load.
2. src        : It refers to the path and name of image.

Syntax:



3. title : It refers to the screen tip to display when mouse is over image.

Syntax:

```

```

4. width : It specifies width of image in pixels or percentage.

5. height : It specifies height of image in pixels or percentage.

Note: Size in % will adjust according to the browser.  
It often called as "Fluid-Image".

```
<img width="300">
```

```
<img width="50%">
```

6. align : It aligns the image left or right. Align is used to wrap text around.

```
<img align="left | right">
```

7. hspace : Horizontal space around image

8. vspace : Vertical space around image

```
<img vspace="45" hspace="20">
```

9. border: Sets border for image.

```
<img border="2">
```

Advanced Attributes:

10. crossorigin : It is used when image is accessed from remote server.

```
corsorigin = "anonymous | use credentials"
```

11. decoding : It defines how image have to load along with other contents.

```
decoding = "async | sync"
```

sync : load image and block others

async : load along with other contents.

12. importance : It defines the priority of image.

importance = low, high, auto