# HTML Images

Images can improve the design and the appearance of a web page.

## Example

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

## Example

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

## Example

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

# HTML Images Syntax

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

### Syntax

<img src="*url*" alt="*alternatetext*">

## The src Attribute

The required `src` attribute specifies the path (URL) to the image.

**Note:** When a web page loads, it is the browser, at that moment, that gets the image from a web server and inserts it into the page. Therefore, make sure that the image actually stays in the same spot in relation to the web page, otherwise your visitors will get a broken link icon. The broken link icon and the `alt` text are shown if the browser cannot find the image.

## Example

&lt;img src="img_chania.jpg" alt="Flowers in Chania"&gt;

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## The alt Attribute

The required `alt` attribute provides an alternate text for an image, if the user for some reason cannot view it (because of slow connection, an error in the src attribute, or if the user uses a screen reader).

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

### Example

&lt;img src="img_chania.jpg" alt="Flowers in Chania"&gt;

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If a browser cannot find an image, it will display the value of the `alt` attribute:

### Example

&lt;img src="wrongname.gif" alt="Flowers in Chania"&gt;

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**Tip:** A screen reader is a software program that reads the HTML code, and allows the user to "listen" to the content. Screen readers are useful for people who are visually impaired or learning disabled.

## Image Size - Width and Height

You can use the `style` attribute to specify the width and height of an image.

### Example

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

Alternatively, you can use the `width` and `height` attributes:

### Example

&lt;img src="img_girl.jpg" alt="Girl in a jacket" width="500" height="600"&gt;

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

**Note:** Always specify the width and height of an image. If width and height are not specified, the web page might flicker while the image loads.

## Width and Height, or Style?

The `width`, `height`, and `style` attributes are all valid in HTML.

However, we suggest using the `style` attribute. It prevents styles sheets from changing the size of images:

## Example

```
<!DOCTYPE html>
<html>
<head>
<style>
img {
  width: 100%;
}
</style>
</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>
```

## Images in Another Folder

If you have your images in a sub-folder, you must include the folder name in the `src` attribute:

## Example

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

## Images on Another Server/Website

Some web sites point to an image on another server.

To point to an image on another server, you must specify an absolute (full) URL in the `src` attribute:

## Example

```
<img src="https://www.w3schools.com/images/w3schools_green.jpg" alt="W3Schools.com">
```

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**Notes on external images:** External images might be under copyright. If you do not get permission to use it, you may be in violation of copyright laws. In addition, you cannot control external images; they can suddenly be removed or changed.

## Animated Images

HTML allows animated GIFs:

### Example

<img src="programming.gif" alt="Computer Man" style="width:48px;height:48px;">

## Image as a Link

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

### Example

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

## Image Floating

Use the CSS `float` property to let the image float to the right or to the left of a text:

### Example

```
<p><img src="smiley.gif" alt="Smiley face" style="float:right;width:42px;height:42px;">
The image will float to the right of the text.</p>

<p><img src="smiley.gif" alt="Smiley face" style="float:left;width:42px;height:42px;">
The image will float to the left of the text.</p>
```

Try it Yourself »

**Tip:** To learn more about CSS Float, read our CSS Float Tutorial.

## Common Image Formats

Here are the most common image file types, which are supported in all browsers (Chrome, Edge, Firefox, Safari, Opera):

| Abbreviation | File Format | File Extension |
|---|---|---|
| APNG | Animated Portable Network Graphics | .apng |
| GIF | Graphics Interchange Format | .gif |

| | | |
|---|---|---|
| ICO | Microsoft Icon | .ico, .cur |
| JPEG | Joint Photographic Expert Group image | .jpg, .jpeg, .jfif, .pjpeg, .pjp |
| PNG | Portable Network Graphics | .png |
| SVG | Scalable Vector Graphics | .svg |

## Chapter Summary

- Use the HTML `<img>` element to define an image
- Use the HTML `src` attribute to define the URL of the image
- Use the HTML `alt` attribute to define an alternate text for an image, if it cannot be displayed
- Use the HTML `width` and `height` attributes or the CSS `width` and `height` properties to define the size of the image
- Use the CSS `float` property to let the image float to the left or to the right

**Note:** Loading large images takes time, and can slow down your web page. Use images carefully.

## HTML Image Tags

| Tag | Description |
|---|---|
| <u>\<img\></u> | Defines an image |
| <u>\<map\></u> | Defines an image map |
| <u>\<area\></u> | Defines a clickable area inside an image map |
| <u>\<picture\></u> | Defines a container for multiple image resources |

For a complete list of all available HTML tags, visit our <u>HTML Tag Reference</u>.

## Video: HTML Images

# HTML
# Images