

Images

Why need image ?

Images can be used to set the tone for a site in less time than it takes to read a description. If you do not have photographs to use on your website, there are companies who sell stock images;

Images should...

- Be relevant
- Convey information
- Convey the right mood
- Be instantly recognisable
- Fit the color palette

Storing Images on Your Site

all of the images are stored in a folder called images.

On a big site you might like to add subfolders inside the images folder. For example, images such as logos and buttons might sit in a folder called interface, product photographs might sit in a page called products, and images related to news might live in a folder called news.


```

```



RESULT

src

This tells the browser where it can find the image file.

alt

This provides a text description of the image which describes the image if you cannot see it.

title

You can also use the **title** attribute with the **** element to provide additional information about the image. Most browsers will display the content of this attribute in a tooltip when the user hovers over the image.

Height & Width of Images

```

```

RESULT



Where to Place Images in Your Code

1: before a paragraph

The paragraph starts on a new line after the image.

2: inside the start of a

Paragraph The first row of text aligns with the bottom of the image.

3: in the middle of a

paragraph

The image is placed between the words of the paragraph that it appears in.

```

```

```
<p>There are around 10,000 living species of birds
that inhabit different ecosystems from the
Arctic to the Antarctic. Many species undertake
long distance annual migrations, and many more
perform shorter irregular journeys.</p>
```

```
<hr />
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RESULT



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Old version

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Three Rules for Creating Images

1. Save images in the right format
2. Save images at the right size
3. Use the correct resolution

Tools to Edit & Save Images

The most popular tool amongst web professionals is **Adobe Photoshop**.



Online Editors

- www.photoshop.com
- www.pixlr.com
- www.splashup.com
- www.ipiccy.com

Formats JPEG



GIF or PNG

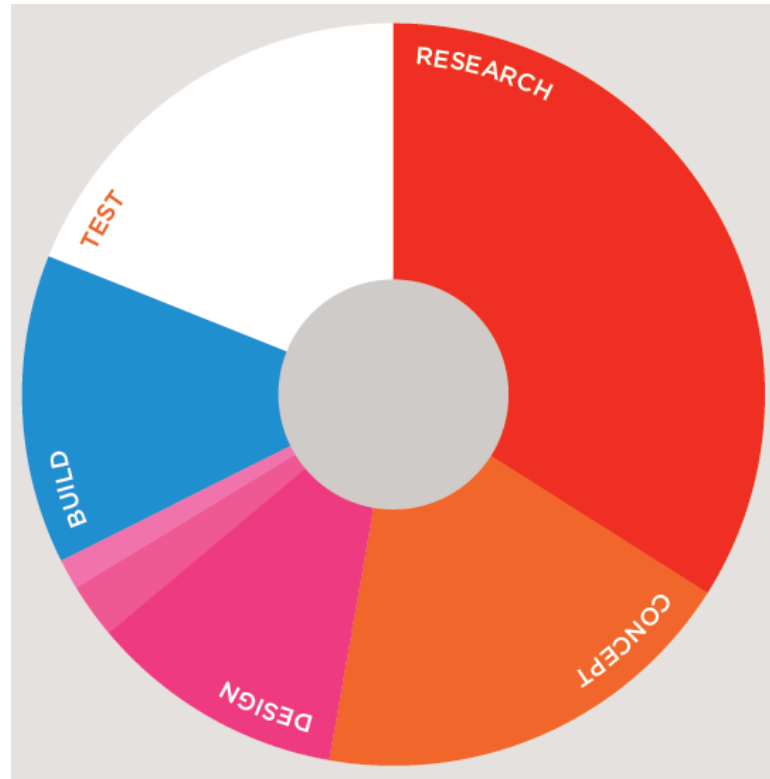
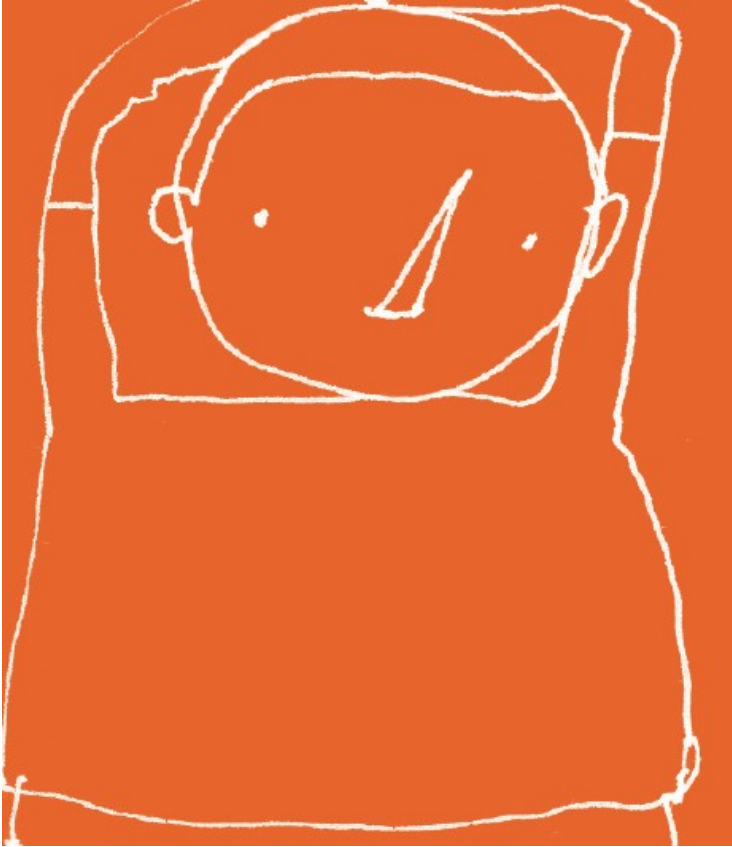
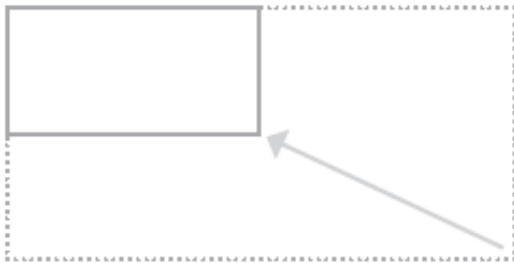


Image Dimensions

The images you use on your website should be saved at the same width and height that you want them to appear on the page.

REDUCING IMAGE SIZE

You can reduce the size of images to create a smaller version of the image.



— 100% 50% 25% 12.5%

INCREASING IMAGE SIZE

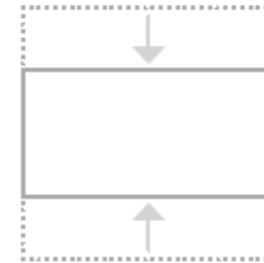
You can't increase the size of photos significantly without affecting the image quality.



— 100% 50% 25% 12.5%

CHANGING SHAPE

Only some images can be cropped without losing valuable information (see next page).



— 100% 50% 25% 12.5%

Cropping Images

PORTRAIT



Here you can see an illustration of a giraffe that is best suited to appearing in **portrait**.

LANDSCAPE

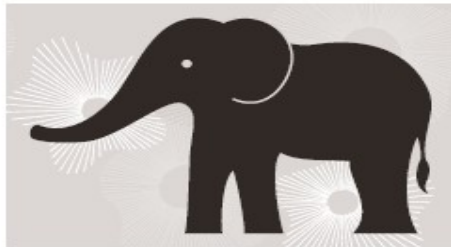


If we **crop** this illustration to make it landscape we lose the head and feet.



If we **add extra space** to the left and right of the illustration the background is not continued.

LANDSCAPE

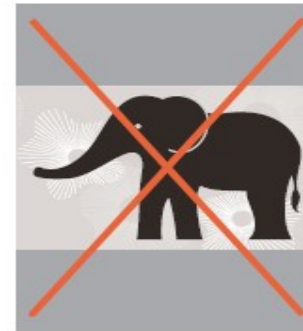


Here you can see an illustration of an elephant that is best suited to appearing in **landscape**.

PORTRAIT



If we **crop** this illustration to make it portrait we lose the trunk and the hindquarters.



If we **add extra space** to the top and bottom of the illustration the background is not continued.

Image Resolution

Images created for the web should be saved at a resolution of 72 ppi. The higher the resolution of the image, the larger the size of the file.



- JPGs, GIFs, and PNGs belong to a type of image format known as **bitmap**.
- Images in **print** materials (such as books and magazines) are made up of tiny circles called **dots**. These images are usually printed at a resolution of **300** dots per inch (dpi).
- For this image:
JPEG at 300 dpi = 1,526kb
JPEG at 72 ppi = 368kb



Vector Images

- Vector images differ from bitmap images and are resolution-independent. Vector images are commonly created in programs such as Adobe Illustrator.
- The current method of using vector images for display on websites involves saving a bitmap version of the original vector image and using that.
- Scalable Vector Graphics (SVG) are a relatively new format used to display vector images directly on the web (eliminating the need to create bitmap versions of them), however its use is not yet widespread.

Animated GIFs

- Animated GIFs show several frames of an image in sequence and therefore can be used to create simple animations.
- Some designers frown on animated GIFs because they remember a lot of amateur web designers overusing them in the 1990's.

Transparency

- If the transparent part of the image has straight edges and it is 100% transparent (that is, not semi-opaque), you can save the image as a GIF (with the transparency option selected).
- If the transparent part of the image has diagonal or rounded edges or if you want a semiopaque transparency or a dropshadow, then you will need to save it as a PNG.



Caption

HTML

chapter-05/figure-and-figure-caption.html

```
<figure>
  
  <br />
  <figcaption>Sea otters hold hands when they
    sleep so they don't drift away from each
    other.</figcaption>
</figure>
```

RESULT



Sea otters hold hands when they sleep so they don't drift away from each other.

<figure>

Images often come with captions. HTML5 has introduced a new <figure> element to contain images and their caption so that the two are associated.

You can have more than one image inside the <figure> element as long as they all share the same caption.

<figcaption>

The <figcaption> element has been added to HTML5 in order to allow web page authors to add a caption to an image.

Before these elements were created there was no way to associate an element with its caption.

Older browsers that do not understand HTML5 elements simply ignore the new elements and display the content of them.

exercise

- Inside the `<body>` section, add multiple `` tags to display different images. Use placeholder images or real images for this exercise.
- Use attributes like `src` for the image source, `alt` for alternative text, `width` to set the width of the image, and `height` to set the height of the image. Adjust the values of `width` and `height` to see how they affect the display of images.
- Test your HTML file in a web browser to observe how different `width` and `height` values affect the display of images. Make sure the alternative text is displayed when images are unavailable.
- Optionally, you can add links to the images or wrap them in `<a>` tags to create clickable images that lead to other pages or larger versions of the images.