

Key Vocabulary...

Name	Purpose
HTML Hyper Text Mark-up language	This language is used to make the structure of a webpage and can be thought of a like a skeleton.
CSS Cascading Style Sheets	Code used to format a webpage and add style to it.
Tags	Instructions that are placed inside the
Web browser	Software needed to view webpages. Examples include Microsoft Edge, Google Chrome and Apple Safari.
DIVs	Code used to split up different parts of the webpage.
Hyperlink	Written code on a webpage that lets a user jump to another page or website.
Lists	Lists can be ordered or unordered on a webpage. These can used to make nav bars
Head	The part of the webpage that you don't see which has important information like the title in it. This is important as Google searches here when bringing back results.
Body	The bit of the webpage that you can see content on.
Nav Bar	A row of buttons, usually at the top of the page that gives options to go to different pages.

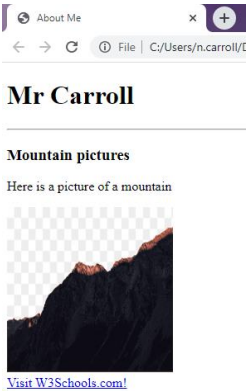


Picture This...

```
<!Doctype HTML>
<head>
  <title> About Me</title>
</head>
<body>
  <h1> Mr Carroll </h1>
  <hr />
  <h3> Mountain pictures</h3>
  <p> Here is a picture of a mountain</p>
  <img src = "mountain.jpg" height="200px"
width="200px" />
  <br>
  <a href="https://www.w3schools.com">Visit
W3Schools.com!</a>
</body>
</html>
```

The above code will produce this website.

This can be made using a simple text editor.



Useful Tags

Tag	Purpose
<html> </html>	Indicates that you going to write a webpage
<head> </head>	This holds the title, style tags and metadata about the page.
<title> </title>	This is the title that appears in the browser and search engine results.
<body> </body>	This defines the main section of the webpage.
<p> </p>	Starts a new paragraph
<h1> </h1>	Heading tags H1 – largest heading H6 – smallest heading
 	This is used to create a new line in the webpage.



Questions

1. Which tag would be used to create a break in the webpage?
2. Which tag would be used to create different sections on a webpage?
3. Which language is used to add style to a webpage ?
4. What is the name of the software that allows you look at website? Name as many examples of these as you can.
5. Explain the purpose of both the head and body sections of a webpage.

Deeper Learning...

The internet is a global network of computers that any computer can join. It is a WAN - which is a series of connected LANs.

The internet is leading to more and more people using cloud computing to store files and use web applications online.

Technologies and services available over the internet include:

- web pages – HTML documents that present images, sound and text accessed through a **web browser**.



**Homework:** Create a visualisation diagram on your favourite website. You must include drawings and annotations.

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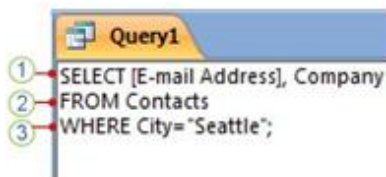


## Picture This...

## Always Remember...

This is an example of a simple database table.

First Name	Last Name	Address	City	Age
Mickey	Mouse	123 Fantasy Way	Anaheim	73
Bat	Man	321 Cavern Ave	Gotham	54
Wonder	Woman	987 Truth Way	Paradise	39
Donald	Duck	555 Quack Street	Mallard	65
Bugs	Bunny	567 Carrot Street	Rascal	58
Wiley	Coyote	999 Acme Way	Canyon	61
Cat	Woman	234 Purrfect Street	Hairball	32
Tweety	Bird	543	Itotitaw	28



```
SELECT
    customer_id
FROM
    sales.customers
WHERE
    city = 'New York'
```

**1.Data is a value with no obvious meaning.** eg 9.

**2.Information is data with meaning.** The average man's shoe size is 9.

**3.Knowledge is making use of information.** Should I stock plenty of size 9 shoes for men.

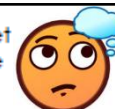


## Questions

1. Can you think of databases that we use in school?
2. Can you name three commands that we use to interrogate the database?
3. What does the 'Orderby' function do?
4. What is the difference between a primary key and a foreign key?
5. What is the difference between relational database and a flat file database?

## Deeper Learning...

Normalisation is used in relational databases to get rid of data redundancy. This means that the same data is not repeated in another table that is unlinked. The aim of this is to prevent human error when updating files. For example, your doctors share the same database as all hospitals, this is how they know your medical history. If they had separate files, treatment could be disastrous. If you had an allergy that either the doctor or the hospital was not aware of due to files not being updated and available to both parties, there could be serious consequences.



**Homework:** What is the difference between a flat file and a relational database?