## CRAFHEP

## All kinds of everything



There are many different types of graphs, way to turn charts, but each is iust a different way to turn numbers into patterns to help us
to understand them more easily. Typical kinds to understond them more easily. Typical kinds of graphs include line graphs, pie charts and histograms.
Line graphs have vertical
and horizontol axes and
points are plotted and
ioined with lines. The
finance markets use these
all the time.

In pie charts you turn the numbers into slices (sectors)
 of a circle, the size of each slice being dependent on the relative size of each
the numbers. Businesses he numbers. Businessas
ove these sorts of charts love these sorts of charts as
it's easy to see how much of each of their products they are selling.

Graphical history
Graphs are mathematical tools and someone had by the stotisticm. The histogram was first introduced by he statistician Karl Pearson in the 1890s. As well as inventing and using graphs, he also found time to set up the first ever university statistics department.

The word histogram comes from the Greek words 'histos' meaning 'anything set upright' (here this refers to the upright bars on the graph) and 'gramma' meaning 'drawing, recording or writing'.
The pie chart was created by Scottish mathematician and engineer William Playfair around 1800. He was a serial graph inventor having also created the line graph, the bar graph and the little-known circle graph Graph inventors were quite the celebrities in their day.
Historian, scientist and philosopher Joseph Priestley created timelines in the 1760 s . These used bars to compare the lifespans of various people and


Histograms are another popular type of graph. Here you group together similar values into 'bins' so, for example, a bin
might have size 5 so that might have size 5 so that any values between 0 and
5 should be added into the first bin. In the final graph he number of values in each bin is plotted as a bar, the area of which is related to the amount of stuff in ach of the bins. Histograms are a good way to presen a wide range of data and the frequency with which ine graph, so histograms are very popular in busines too.
omputers today will allow you to take your spreadsheet data and turn it into all sorts of different ypes of graphs, so you can choose the one that is understand the basics, or you could end up showing rubbish.


Priestley Chart
civilisarions. They proved to be a commercial success and were reprinted many times. They were probably the inspiration for Playfair's later graph inventions. These early types of graphs made it easy to see the points that were being made and became a national
sensation. Priestley was even awarded a Doctor of Law degree for his wonderful lectures and graphs.

