

Bar Charts

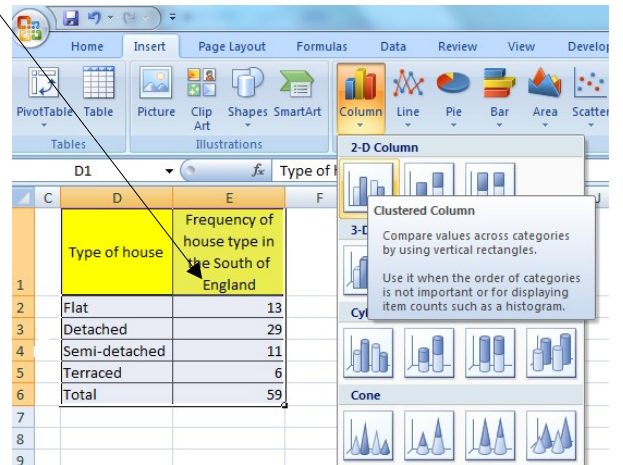
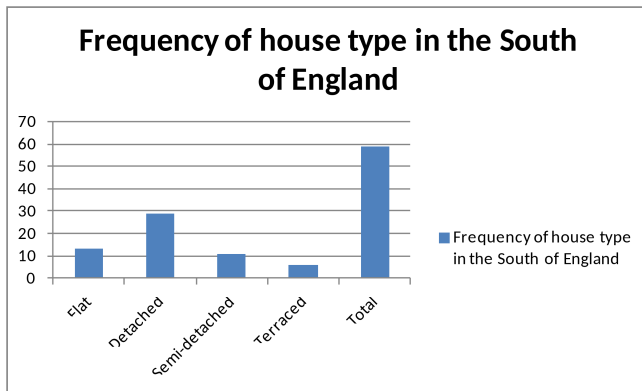
These instructions should be used together with the spreadsheet, House prices bar charts.xls.

Open this spreadsheet.

First calculate the frequencies for each category in the bar chart using the **Countif** function.

	A	B	C	D	E
2	House Prices South of England £1,000s	Type of house in South of England		Type of house	Frequency of house type in the South of England
1				Flat	=COUNTIF(B:B,"Flat")
2	100	Flat		Detached	=COUNTIF(B:B,"Detached")
3	200	Semi-detached		Semi-detached	=COUNTIF(B:B,"Semi-detached")
4	160	Semi-detached		Terraced	=COUNTIF(B:B,"Terraced")
5	125	Terraced		Total	=SUM(E2:E5)
6	152.5	Terraced			
7	120	Flat			
8	310	Detached			
9	480	Detached			
10	250	Detached			
11	50	Flat			
12	ONE	Detached			

Highlight D1:E5 then **Insert/Column** select the **Clustered Column**



Delete legend.

Click on the **legend** and **delete**

Sort bars in descending order.

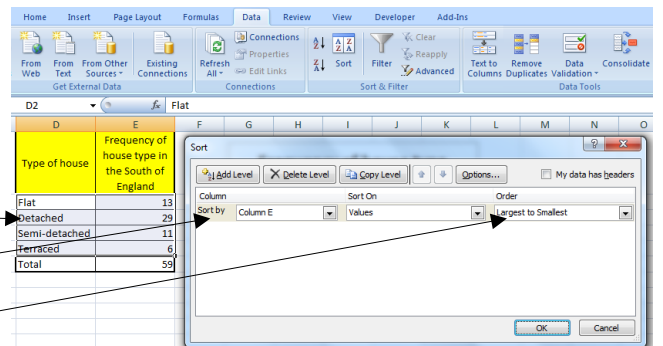
Highlight D2:E5

In the **Data** tab select **Sort**.

Column E is in **Sort by**

Largest to Smallest in **Order** box

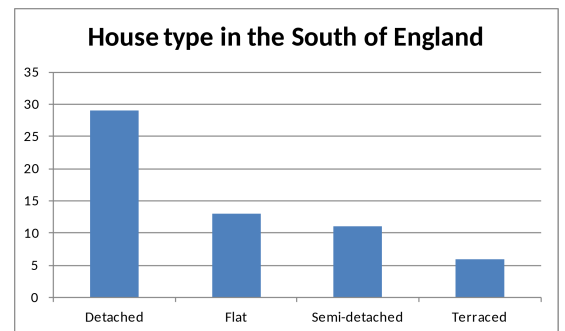
OK



Add a title.

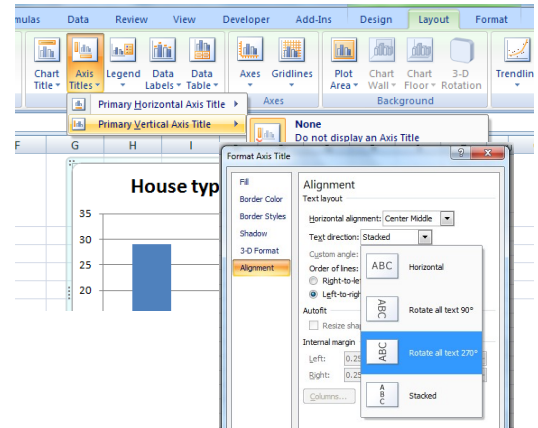
Click on the title and type in **House type in the South of England**

Add a vertical axis title.



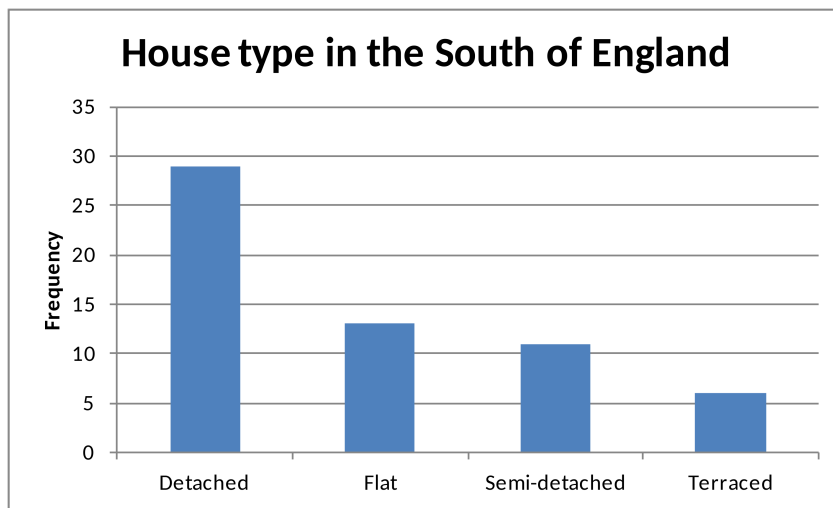
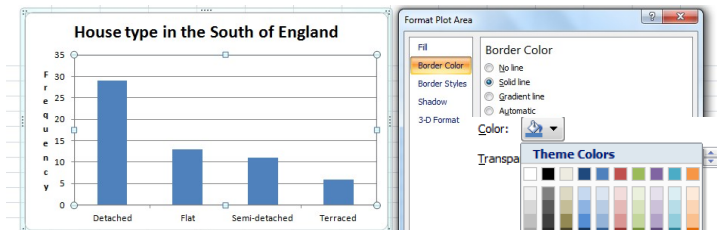
In **Layout** tab select **Axis Titles** then **Primary Vertical Axis Title** then **Vertical Title** and type **Frequency** and **Enter**.

To change the alignment of the text in the vertical title. Right click on the **vertical title** select **Format Axis Title** then **Alignment** then click on the arrow next to **Text direction** click on one of the options and **Close**



Add a chart border.

Right click on the chart select **Format Plot Area** then **Border Color** select **Solid line** open up the **Color** arrow select the colour and **Close**



Clustered Bar Charts

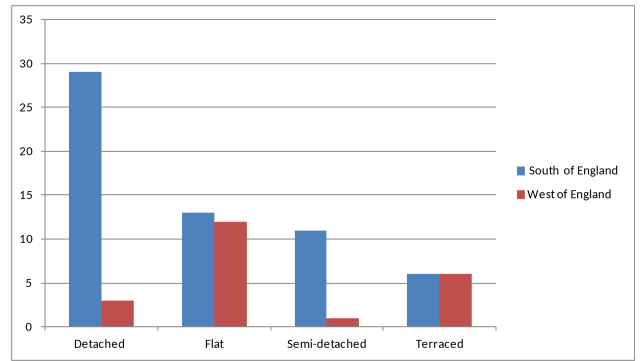
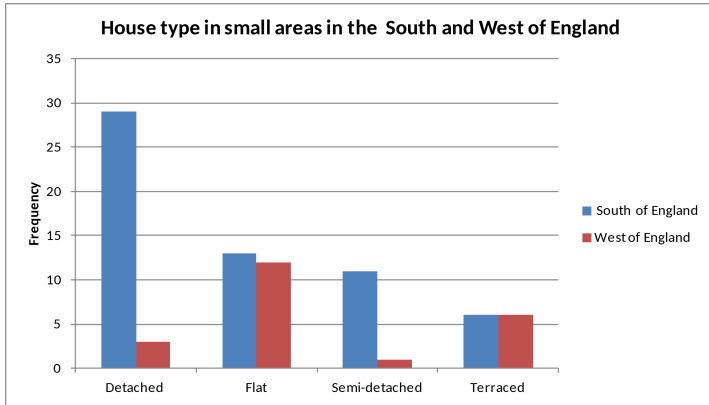
The process is exactly the same as for simple bar charts except you have two (or more) data sets.

	A	B	C	D	E	F	G	H
1	House Prices South of England £1,000s	Type of house in South of England	House Prices West England £1,000s	Type of house in West of England		Type of house	South of England	West of England
2	100.00	Flat	122.50	Flat		Detached	29	3
3	200.00	Semi-detached	535.00	Detached		Flat	13	12
4	160.00	Semi-detached	157.00	Terraced		Semi-detached	11	1
5	125.00	Terraced	445.00	Detached		Terraced	6	6
6	152.50	Terraced	124.90	Flat		Total	59	22
7	120.00	Flat	66.25	Flat				
8	310.00	Detached	745.00	Semi-detached				
9	480.00	Detached	197.50	Terraced				
10	250.00	Detached	88.00	Flat				

Use the **Countif** function to find the frequencies for each category for each variable

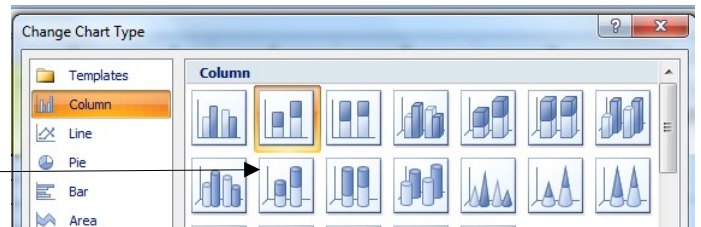
Highlight **F1:H5** then select the **Insert** tab then **Column** select **Clustered Column**

Add vertical label, main title and border.

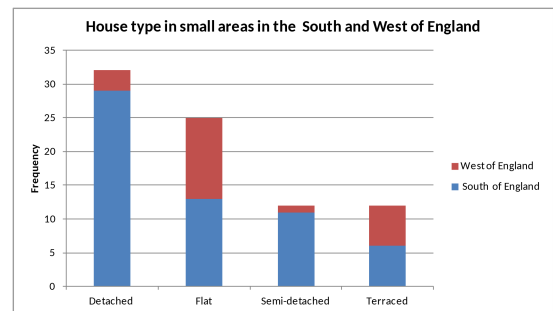


Stacked Bar Charts working from previous graph

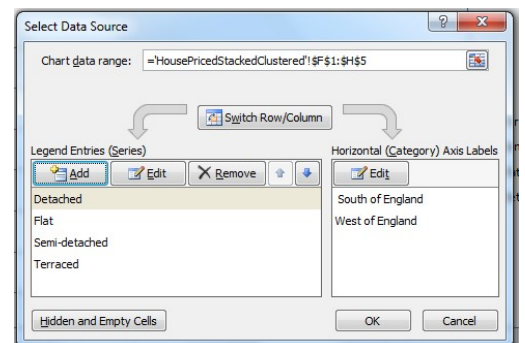
Right click on the chart select **Change Chart Type** then **Stacked Column**



This is wrong as we want two bars split into house type.



Right click on the chart select **Select Data** then **Switch Row/Column** and **OK**



Stacked Bar Charts directly from the data

Use the **Countif function** to find the frequencies for each category for each variable

Highlight **F1:H5** then select the **Insert tab** then **Column** select **Stacked Column**

Click on the chart select **Select Data** then **Switch Row/Column** and **OK**

Add **vertical label** and **main title** and **border**.

