

Creating a Qualitative Bar Chart Using R

The data in this example is wind directions from 12 U.S. cities on March 31, 2016. This data was obtained from weatherunderground.com on 3/31/2016.

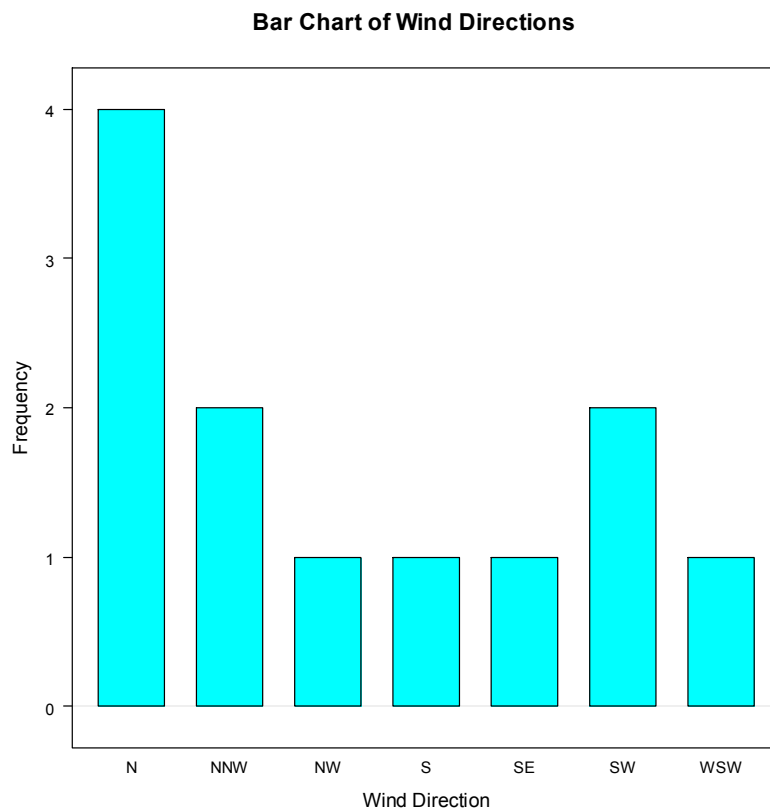
WSW	S	SW	SW	N	NNW	SE	N	NW	N	NNW	N
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Open the R program and type in the following. The first greater than sign (>) appears automatically. If you have written a complete command, R will run the command and then a greater than sign will appear on the next line when the “ENTER” key is pressed. If the command is not complete, a plus sign (+) will appear when the “ENTER” key is pressed.

The first line opens the R graphing package “lattice” which contains the “barchart” command.

```
> library(lattice)
> wndr <- c("WSW", "S", "SW", "SW", "N", "NNW", "SE", "N", "NW", "N", "NNW", "N")
> barchart(wndr, horizontal=FALSE, main="Bar Chart of Wind Directions",
+ xlab="Wind Direction", ylab="Frequency")
```

When you press “ENTER” after the last line, the boxplot will appear as shown below.



Right click on the graph and choose “Copy as Metafile”. Then paste the graph into a Microsoft Word document. If you right click on the pasted graph, and then choose “Text Wrapping” and “Behind Text”, you will be able to move the pasted graph around behind the text on the page.