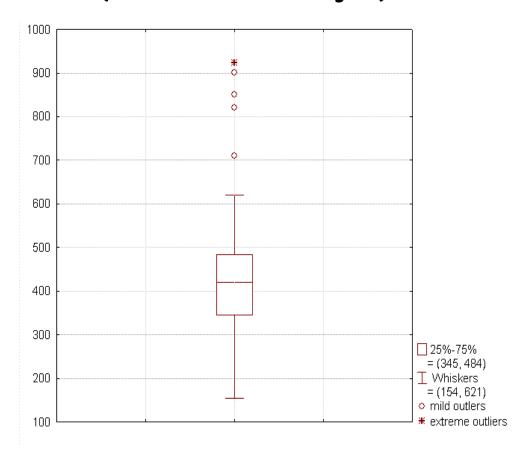
Box Plot (aka box-and-whisker diagram)



For	this	data	set.
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- Smallest non-outlier observation = 154
- Lower quartile $Q_1 = 345$
- Median $Q_2 = 420$
- Upper quartile $Q_3 = 484$
- Interquartile range $IQR = Q_3 Q_1 = 484 345 = 139$
- Largest non-outlier observation = 621
- Mild outliers (o) are between 1.5*IQR and 3*IQR above Q_3 : (692.5, 901] and below Q_1 : [-72, 136.5)

22 Q3 =

15 Q2 =

Q1 =

- Extreme outliers (*) are above $Q_3 + 3*IQR = 901$ or below $Q_1 3*IQR = -72$
- The data is skewed to the right (positively skewed)

Rule for Whiskers:

The **lower whisker** starts at Q_1 and extends downward to $Q_1 - 1.5(IQR)$ or the minimum value, whichever is greater.

The **upper whisker** starts at Q_3 and extends upward to $Q_3 + 1.5(IQR)$ or the maximum value, whichever is lower.

References

http://en.wikipedia.org/wiki/Box_plot

Exploratory Data Analysis, John W. Tukey, Addison-Wesley, Reading, MA 1977