# Viewdist

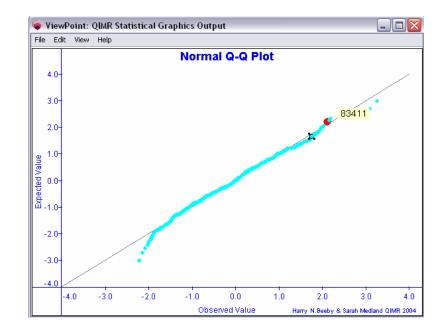
Plotting Program for quick visualisation of distributions
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#### Designed for use with the Mx %p function

- Reads in %p or data files
- Produces QQ plots or distribution against itself
- Aim to help identify outliers
- Can read in %p files for two models and plot the difference between the two files
  - Useful for identifying per family contribution to a
     LOD score at a specific loci

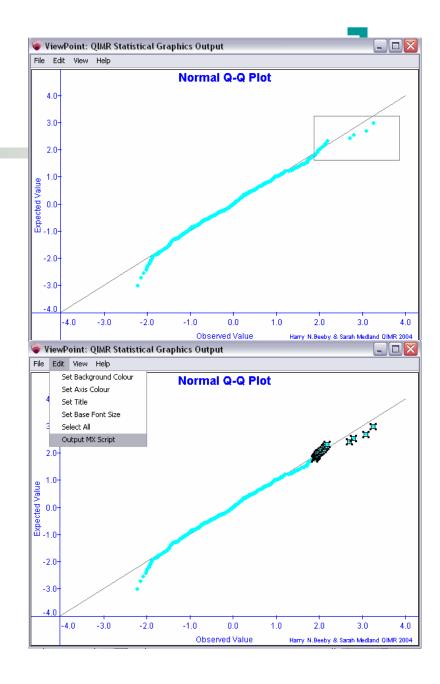
#### Outlier detection

- QQ plots observed scores against the expected distribution (normal or chisquare)
- The case identifier is shown as you pass the mouse over the data point



- Can select multiple data points
- Output a text file containing Mx commands to exclude the selected cases

```
select if fam ^= 1234;
select if fam ^= 5678;
select if fam ^= 9876;
```



- Working from a %p file
  - Can graph Z score or Mahalanobis distance
  - Can display the results for multiple models (max 6) if using the NModel option
    - Suits mixture distribution linkage approach
  - Can graph raw data from a dat file
    - Requires user to specify the columns to be plotted
- Can customise the plot and change the expected distribution
- Results can be printed or saved as jpg

### per case change in model fit

- If two %p files are read in using 'open difference files' the difference in -2LL can be calculated and plotted to determine which cases are contributing the most to change in chi-square
- Selecting these families and excluding them from the analysis can provide information regarding the robustness of the linkage finding

## Input format

- Tab or Space delimited
- Required columns
  - Identifiers
  - Data
- Optional Columns
  - Model (specify -1 if not included in data file)