

# BIG IDEAS IN STATISTICS

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# THE REAL WORLD

# VARIABILITY

# DESIGN

For sheer delight, see  
[http://www.york.ac.uk/depts/maths/histstat/images/latin\\_square.gif](http://www.york.ac.uk/depts/maths/histstat/images/latin_square.gif)

# SAMPLING

Sample and population

# “BIAS”

# GRAPHS AND DIAGRAMS

## EXCELLENT PRACTICE

See Tufte, *The Visual Display of Quantitative Information*  
Could even see <http://www.rss.org.uk/pdf/Graphs%20and%20diagrams.pdf>

## AWFUL PRACTICE

Tufte tells you all about it, with examples!  
OCR's "Uplink" spring 2006  
UCAS et al "What do graduates do?" for 2007  
[prospects.ac.uk](http://prospects.ac.uk)  
*And others too numerous to mention ...*

Get a feel for it at <http://www.math.yorku.ca/SCS/Gallery/>

# "MODELLING"

# INFERENCE

# INTERPRETATION

# REAL PROBLEMS

# STATISTICAL LITERACY

## GAISE

Guidelines for Assessment and Instruction in  
Statistics Education

<http://www.amstat.org/education/gaise/>

## NEW ZEALAND MATHS CURRICULUM

[http://www.minedu.govt.nz/web/downloadable/  
dl3526\\_v1/math-nzc.pdf](http://www.minedu.govt.nz/web/downloadable/dl3526_v1/math-nzc.pdf)