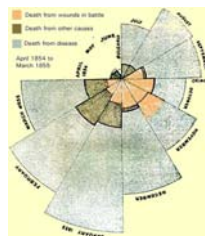# A Bibliography on Statistical Graphing Practices
B. Dudek, October 6, 2010 version

Also see the section on statistical graphics in the stat toolkit bibliography.

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Commercial Graphing Software (obviously a limited list)

Origin Lab. Home for Origin 8; commercial software targeted to science and engineering.
http://www.originlab.com/

SigmaPlot. Scientific; technical; commercial software.
My long time favorite for publication quality graphs.
http://www.sigmaplot.com

Blogs and Miscellaneous Sites

Edward Tufte's web site and the home of Graphics Press:
http://www.edwardtufte.com/tufte/index

Ask E.T.
Edward Tufte's moderated Forum. Quirky, fun, extremely helpful.
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http://www.interactivegraphics.org/Home.html
Contains R code for their graphics.

Pie Charts – Don't use them
http://pubs.logicalexpressions.com/Pub0009/LPMArticle.asp?ID=390

Manet
http://stats.math.uni-augsburg.de/MANET/
Interactive graphics for data sets with missing data

DataScope web site. Lewi and Woulters' statistical graphics site. Includes a link to Lewi's Etext "Speaking of Graphics"
http://www.datascope.be/

William Briggs' Blog on bad graphing:
http://wmbriggs.com/blog/category/bad-graphics/

http://statisticalgraphics.blog.com/
An interesting blog

ASA Sections on: Statistical Computing and Statistical Graphics
http://stat-computing.org/

Bill Cleveland,'s web page at Bell labs. Includes a link the the Trellis web pages:
http://netlib.bell-labs.com/cm/ms/departments/sia/wsc/index.html

Healey's page on Perception in Visualization
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UCLA Academic Technology Services page on
SAS Graphics:
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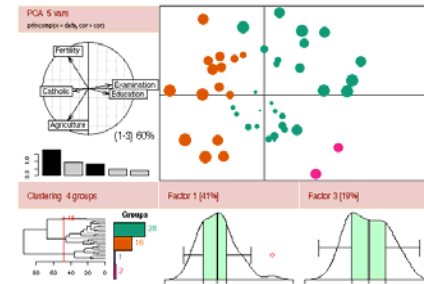Maindonald, J. H., & Braun, J. (2007). *Data analysis and graphics using R : an*

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Zuur, A. (2009). *Mixed effects models and extensions in ecology with R* (1st ed.). New York: Springer.

Web Sites on Graphical Display, Statistical Graphing Software, and R

R software – related links

The R Project for Statistical Computing
The home page for R.
http://www.r-project.org/

Quick-R. A fabulous web page by Robert Kabakoff that is designed to help SPSS/SAS/STAT users migrate to R. Actually the best web site I have found on R.
http://www.statmethods.net/

R Graphical Manual. A collection of R graphs from various R packages
http://bm2.genes.nig.ac.jp/RGM2/index.php

An R and S-PLUS Companion to Applied Regression
John Fox's text to accompany his Regression text
http://socserv.socsci.mcmaster.ca/jfox/Books/Companion//index.html

The R Graph Gallery page. Extensive. Great place to explore the capabilities in R.
http://addictedtor.free.fr/graphiques/

GGobi
http://www.ggobi.org/
GGobi is the primary open source visualization program for exploring high-dimensional data. The rggobi package in R permits transfer of data/objects between the two application.

GTK+
http://www.gtk.org/
The premier open-source graphical user interface toolkit.

Rggobi
http://www.ggobi.org/rggobi/

Lets R talk to ggobi.

RGtk2
http://www.ggobi.org/rgtk2/
Lets R talk to GTK+.

Classifly
http://had.co.nz/classifly/
An R package that enables exploration of classification boundaries in high dimensions.

GGPLOT2
http://had.co.nz/ggplot2/
An amazing R package that contains a large set of functions to become a replacement
framework for plotting functions in the base package of R and the lattice capabilities.

Mondrian
http://stats.math.uni-augsburg.de/Mondrian/
*"Mondrian is a general purpose statistical data-visualization system. It features
outstanding visualization techniques for data of almost any kind, and has its particular
strength compared to other tools when working with Categorical Data, Geographical
Data and LARGE Data."* (description from web site)
It uses Rserve to link to R and use functions in its base and add-on packages.
It also has capabilities in mapping/spatial analysis.
exploRase
http://www.metnetdb.org/MetNet_exploRase.htm
*"exploRase is a MetNet tool written in R for the exploratory multivariate analysis of
Systems Biology data. It provides a graphical user interface (GUI) on top of the
analysis functionality provided by R and the Bioconductor project."* (description taken
from the exploRase page)
Although a bioinformatics focus, it is a nice model of what can be achieved and is a nice
demo of integration of multiple open sources applications.

Web home of Theus and Urbanek text cited above.
http://www.interactivegraphics.org/Home.html
Contains R code for their graphics.

Using Color in R
http://research.stowers-institute.org/efg/Report/UsingColorInR.pdf