Multipanel plotting in R

with base graphics
Compared to what?

- Tufte
by hand

ggplot2

lattice
par(mfrow)
layout()
split.screen()
par(mfrow)
par(mfrow)

Normal (n = 60)

Unipolar depression (n = 69)

Bipolar depression (n = 35)

Alcoholism (n = 30)

Schizophrenia (n = 20)

Dementia (n = 93)

John et al. 1988, Science, 239, p162
and reprinted in Tufte, Envisioning Information, p78
Figure 1. Beanplots of potential correlates of extinction risk for five groups of vertebrate species in Canada. The short vertical lines indicate species for which data are available. The estimated density of the distribution of values is shown for at-risk (white) and not-at-risk (gray) species in the form of curved polygons (beans). The median of each distribution is shown with a long vertical black line. Note the log-distributed horizontal axes. Missing plots were either data deficient (depth midpoint for freshwater fishes, range area for terrestrial and marine mammals, life span and maximum size for birds) or not applicable (all others). Relative age at maturity is the age at maturity divided by life span. Relative size at maturity is the size at maturity divided by maximum size.

Abbreviations: g, grams; m, meters; mm, millimeters; m$^2$.km$^{-2}$, meters per square kilometer; °, degrees.

Anderson et al. 2011, Bioscience, 61, p538
layout()
Anderson et al. 2011, Fish. Fish, 12, p317
split.screen()
Fig. 10. Frequency distributions for spatial (G.M.b_s) and temporal (G.M.b_t) regression coefficients for all moths (a, b), aphids (c, d), birds (e, f) and all species (g, h).
(a) Original

(b) Original static method

(c) Revised

(d) Revised robust–dynamic method

Anderson et al. In Review
Each taxon in the analysis was assigned a diet-based fractional trophic level, mostly from the online database FishBase. Primary producers are trophic level one by definition, and were not included in our analyses; herbivores and filter feeders are trophic level two; and omnivores and carnivores are at higher trophic levels. MTL is the catch- or biomass-weighted average of trophic levels of taxa recorded in a particular year. Ecopath with Ecosim models were compiled from well-documented sources and run for 100 years with zero catch to reach unfished states, and then four main scenarios of fishery development (fishing down, fishing through, based on availability, and increase to overfishing) were applied during years 101 to 200. Global catch data were obtained from the United Nations Food and Agriculture Organization (FAO), while catch data for individual Large Marine Ecosystems came from the Sea Around Us Project of the University of British Columbia; trends in catch MTL from these two sources are nearly identical. Long-term scientific trawl surveys from 15 Large Marine Ecosystems provide biomass estimates for regularly recorded taxa, and were obtained from a variety of sources. Biomass estimates for individual taxa were typically not corrected for differential catchability among taxa; furthermore, invertebrate biomass estimates were seldom included in the provided data. MTL time series from individual surveys were combined into a single global time series using a linear mixed effects model with 'Large Marine Ecosystem' modelled as a random effect. Stock assessment biomass values were obtained from the RAM Legacy database; total biomass was preferentially used in the analysis unless spawning biomass was the only time series available. Pearson correlations were used to assess whether MTL followed a linear trend.
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...Has that ever happened?

Remember Windows ME?

I knew it!
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