R Graphics: New approaches to data exploration and presentation

Discussion

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Two important developments for graphics in R

lattice, an R implementation of Trellis
(Deepayan Sarkar)

ggplot, an R implementation of Grammar of Graphics (Hadley Wickham)

iplots, an R implementation of Interactive Graphics (iAugsburg)
lattice

+ Makes Trellis available
+ Flexible (cf. what Deepayan showed)

- Based on R graphics (unavoidable!)
- No GUI and no interaction

What was John Chambers’ Mission for R?
“Enable effective and rapid exploration of data.”
Oxboys

Circles
Scales
Comparisons
Ages?

GSCE marks

> head(Gcsemv)

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NA’s?

71.2, 76.8 ?

Course max
ggplot

+ Makes Grammar of Graphics ideas available
+ Flexible commands

- (also) Based on R graphics (unavoidable!)
- (still) No GUI and no interaction

What was John Chambers’ Mission for R?
“Enable effective and rapid exploration of data.”
Aspen trees/gypsy moths

• How do chemical concentrations depend on the other factors?
• How does insect growth depend on the factors?
• Insect growth and chemicals?
Summary comments

• Two excellent projects and both authors deserve our congratulations and thanks

  BUT
  – Both emphasise presentation over exploration
  – Neither offers interaction

• What was John Chambers’ Mission again?