R2

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0.1 RStudio - Discovery Tour

- Open RStudio

- Discuss the sub windows

- How to generate an R-script + execute line by line

- Pane with Environment & History Tab

- Pane with Files, plots, packages, help Tab

- How to invoke help e.g. ?mean

- Meaning of ?/??

- Top: Tools Tab: Useful settings

    - General
        * "Restore .RData into workspace at startup"
        * "Save workspace to .RData on exit"
    - Packages
        * "CRAN Mirror"
    - Sweave
        * Knitr/pdflatex
    - Git/SVN

0.2 Package installation

- From within RStudio

    1. In subwindow "Files/Plots/Packages/.."
        - Packages/Install TAB
        - Add the packages: lme4 mcmc
        - Click install buttom
    2. **Manually** in the console
        - *install.packages(c("lme4", "mcmc"))*

- **Manually** from the R command line

- – Invoke R
- – R>*install.packages(c("lme4", "mcmc"))*
- I prefer the command line option because it exposes all the options:
  - – Check out ?install.packages()
  - – *?installed.packages()*

0.3   Loading packages/libraries

- List ALL installed packages AND give a short description
  - – *library()*
- Search function :: Gives the search path for the R objects
  - – *search()*
- Ex.: load lme4
  - – *library(lme4)*
  - – *search()*
  - – *?lme4*

0.4   Unload package/libraries

- Ex.: unload lme4
  - – *detach("package:lme4",unload=TRUE)*
  - – *search()*
  - – *?lme4*

In [ ]: