Introduction to R

CIBIO-InBIO Advanced Course May 6-8, 2015 @ Vairão Campus

PROGRAMME

DAY 1

What is R? Installation (R and R-studio), main structure, seeking help
 Functions and packages (and seeking more help)
 Variable modes and operators: numeric (integer, double), character,
 logical and complex
 Data types I: vectors, matrices, arrays, data frames and lists
 Data types II: special data structures

DAY 2

1: Data import-export, workspaces and directories
2: Data indexing (rows, columns, which(), etc.)
3: Reviewing and tabulating your data (summaries, table(), plot(), str(), xtabs(), etc.)
4: Flow functions and cycles (if(), for(), while())

DAY 3

- 1: Simple plotting
- 2: More plotting possibilities (ggplot2)
- 3: Some advanced features: build your functions
- 4: Practice session (individual work and resolving doubts)

par(pin=c(6.8, 6.8), mar=c(3.5,3.5,0.2,0.2)+0.1, cex.lab=2, font.lab=2.5, cex #Observations# plot(shapeF[,1], shapeF[,2] lourF, bg=backgrndF, asp=1, x #mtDNAmeans# bg=bgSP, cex=3, lwd=5) points(LSM.F[,1], LSM.F[.lab=2, font.lab=2.5, cex par(pin=c(6.8, 6.8), max #Observations# plot(shapeF[,1], shapeF[F, bg=backgrndF, asp=1, x #mtDNAmeans# SP, bg=bgSP, cex=3, lwd=5) points(LSM.F[,1], LSM.F[,2], par(pin=c(6.8, 6.8), mar=c(3.5,3 0.⁰1, cex.lab=1.5, font.lab=2.5, c #Observations#





