Data Input in R

Nichole Bennett

Assumed Knowledge

file paths

some basic R/basic programming

data file formats

Input Data from Keyboard

concatenate function

```
y<-c(2,4,6,8)
```

good for very small variables

Input Data from Keyboard

scan function

```
x<-scan()
1:
```

good for intermediate sized variables

Input Data from File

read.table function

reads in .txt file and automatically creates a dataframe from it

read.table function

```
data<-read.table("/Users/nb/temp.txt", header=True)
```

variable

read.table function

filepath in double quotes

header statement

Working Directory

getwd()

setwd()

ctrl+d

Formatting Data in Excel

no spaces in header row

no blank spaces

values of variable go into same column

each row is an experimental unit

Wrong

control	preheated	prechilled
6.1	6.3	7.1
5.9	6.2	8.2
5.8	5.8	7.3
5.4	6.3	6.9

Right

Response	Treatment
6.1	control
5.9	control
5.8	control
5.4	control
6.3	preheated
6.2	preheated
5.8	preheated
6.3	preheated
7.1	prechilled
8.2	prechilled
7.3	prechilled
6.9	prechilled

from Crawley's *The R Book*

Variations of read function

read.table   white space-separated

read.csv   comma-separated
                            (".") as decimal)

read.csv2   semicolon-separated
                            (",") as decimal)

read.delim   tab-separated
                            (".") as decimal)

read.delim2   tab-separated
                            (",") as decimal)

Data Input in R

be careful about formatting

more advanced input possible