Ch 1: Basics of R

arithmetic additional exploring vectors install base alternative started include character subsection session typing directory windows UNCTIONS code start § default workspace information to change size information to also: width workspace. figure installation check volume, row height demonstrations

session.

Ch 2: R Environment

```
directory. workspace, user objects.
              markdown species
    includetext
enu image
     packages objects base
 exploring package markup
     workspace session &
           learningworkspace.
  document.
          document objects, directory,
```

Chs 4,5: Data . . .

```
lists matrix character classes sapply() factor <ef><ac><rst frame, frames<e><<sf>code
                                    include levels argument time check of the ch
                 ates elements objects
                             returns i
                  default
CtO [,]
                                                                                                                                                                                                                                                                                                                                                       rows
                   data. >
               ectors note input frame
                exploring columns list true set
numeric column number package information extract false di<e><</ri>
                                                                       frame. missing<ef><ac><>le
matrices tables
methods
                                                                         <e><><f><e><<>f>
```