CEFET/RJ

Ordenação

Eduardo Ogasawara
eduardo.ogasawara@cefet-rj.br
https://eic.cefet-rj.br/~eogasawara

Exemplo

```
weight <- c(60, 72, 57, 90, 95, 72)
height <- c(1.75, 1.80, 1.65, 1.90, 1.74, 1.91)
subject <- c("A", "B", "C", "D", "E", "F")
```

Criando uma tabela básica

```r
d <- data.frame(weight=weight, height=height, subject=subject)
head(d)
```

```
##   weight height subject
## 1     60   1.75       A
## 2     72   1.80       B
## 3     57   1.65       C
## 4     90   1.90       D
## 5     95   1.74       E
## 6     72   1.91       F
```

Ordenação e ordem

```
sort(d$height)
```

```
## [1] 1.65 1.74 1.75 1.80 1.90 1.91
```

```
order(d$height)
```

```
## [1] 3 5 1 2 4 6
```

A função de ordenação ordena um vetor. A função de ordem obtém o índice do vetor original que corresponde ao vetor ordenado.

Reordenando a tabela

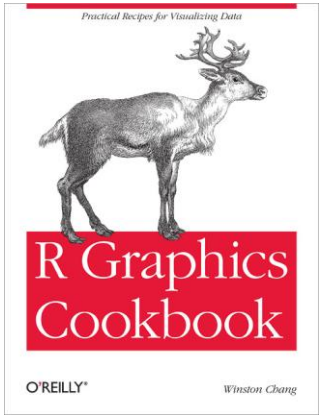
```
o <- order(d$height)
ds <- d[o,]
head(ds)
```

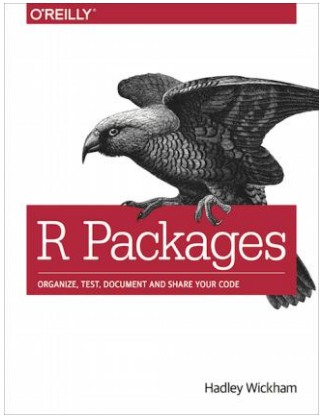
```
##   weight height subject
## 3     57   1.65       C
## 5     95   1.74       E
## 1     60   1.75       A
## 2     72   1.80       B
## 4     90   1.90       D
## 6     72   1.91       F
```

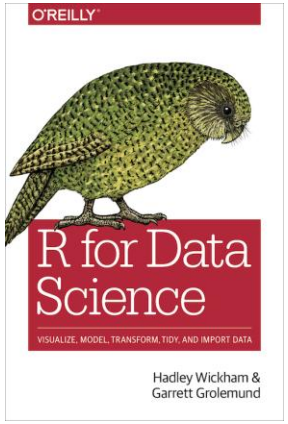
Passar um vetor inteiro para linhas em uma tabela seleciona as linhas de acordo com a ordem especificada.

Referências

Material: https://eic.cefet-rj.br/~eogasawara/tutorial-r







Hands-on Programming with R: https://rstudio-education.github.io/hopr/index.html
R Graphics Cookbook: https://r-graphics.org
R Packages: https://r-pkgs.org/index.html
R for Data Science: https://r4ds.had.co.nz

https://rstudio-education.github.io/hopr/basics.html

[1] G. Grolemund, 2014, Hands-On Programming with R: Write Your Own Functions and Simulations. O'Reilly Media, Inc.