

Specific packages for R

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Part I

Datatable

Chapter 1

data.table (R)

1.1 Introduction

1.1.1 Introduction

data.table() function

alt loading (fread; fwrite)

melt/dcast

`:= stuff`

`.N`

`..select_cols`

"with" in 3rd part of `[, ,]`, or first?

setkey

`.SD`

`.SDcols`

vector using `.()` in things

whole h3 on data.tables?

`df[a,b,c]`

on a, don't have to use

`df$x==3`

, can just do

`x==3?`

on `b`, can do old way

`c("a", "b")`

or new

`.(a,b)`

can do 3th col using `.SDcols`

joins in `data.table`

Part II

Tidyverse

Chapter 2

tidyr

2.1 Introduction

2.1.1 Introduction

Chapter 3

ggplot2

3.1 Introduction

3.1.1 Introduction

aes. can do within each plot or at start for all

data. can explicitly do data = allows for eg:

```
data = . %>% something()
```

plot types: col; line; scatter

formatting axis

labels

themes

Chapter 4

dplyr

4.1 Introduction

4.1.1 Introduction

Chapter 5

purrr

5.1 Introduction

5.1.1 Introduction

Chapter 6

tibble

6.1 Introduction

6.1.1 Introduction

Chapter 7

RMarkdown

7.1 Introduction

7.1.1 Introduction

Chapter 8

Shiny (R)

8.1 Introduction

8.1.1 Introduction

Part III

Other

Chapter 9

caret (Classification And REgression Training)

9.1 Introduction

9.1.1 Introduction

includes xgboost.

Chapter 10

`rstan`

10.1 Introduction

10.1.1 Introduction

Chapter 11

mlr

11.1 Introduction

11.1.1 Introduction

machine learning for R?