

Specific packages for R

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Contents

Preface	2
I Datatable	3
1 data.table (R)	4
II Tidyverse	6
2 tidyr	7
3 ggplot2	8
4 dplyr	9
5 purrr	10
6 tibble	11
7 RMarkdown	12
8 Shiny (R)	13
III Other	14
9 caret (Classification And REgression Training)	15
10 rstan	16
11 mlr	17

Preface

This is a live document, and is full of gaps, mistakes, typos etc.

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?