

# *EDA-LA*

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*DATA SET:- The datasets provided include the players data for the Career Mode from FIFA 15 to FIFA 20 ("players\_20.csv"). The data allows multiple comparison of the same players across the last 6 version of the videogame*

*<https://www.kaggle.com/stefanoleone992/fifa-20-complete-player-dataset>*

*Github link :- [https://github.com/1nt18is056/eda\\_la](https://github.com/1nt18is056/eda_la)*

6 rows | 1-10 of 104 columns



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R Markdown ↕





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RStudio

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Addins

Project: (None)

edala.Rmd

46 9. Summarising the data

47 {r}

48 summary(players\_data)

49

sofifa\_id

Min. : 2

player\_url

Length:15465

short\_name

Length:15465

long\_name

Length:15465

age

Min. :16.00

dob

Length:15465

height\_cm

Min. :155.0

1st Qu.:178043

Class :character

1st Qu.:176.0

1st Qu.:21.00

Class :character

1st Qu.:0

Median :200844

Mode :character

Median :181.0

Median :24.00

Mode :character

Median :0

Mean :189299

Mean :24.76

Mean :181.1

Mean :24.76

Mean :0

Mean :0

3rd Qu.:214326

3rd Qu.:186.0

3rd Qu.:186.0

3rd Qu.:28.00

3rd Qu.:186.0

3rd Qu.:0

Max. :225562

Max. :203.0

Max. :44.00

Max. :44.00

Max. :0

Max. :0

weight\_kg

Min. : 50.00

nationality

Length:15465

club

Length:15465

overall

Min. :40.00

potential

Min. :40.00

value\_eur

Min. :0

wage\_eur

Min. :0

player\_positions

Length:15465

1st Qu.: 70.00

Class :character

1st Qu.:0

1st Qu.:64.00

1st Qu.:0

1st Qu.:0

Class :character

Median : 75.00

Mode :character

Median :64.00

Median :68.00

Median :0

Median :0

Mode :character

Mean : 75.48

Mean :63.95

Mean :68.48

Mean :68.48

Mean :0

Mean :0

Mean :0

3rd Qu.: 80.00

3rd Qu.:69.00

3rd Qu.:73.00

3rd Qu.:73.00

3rd Qu.:0

3rd Qu.:0

3rd Qu.:0

Max. :110.00

Max. :93.00

Max. :95.00

Max. :95.00

Max. :0

Max. :0

Max. :0

preferred\_foot

Length:15465

international\_reputation

Min. :1.000

weak\_foot

Min. :1.000

skill\_moves

Min. :1.000

work\_rate

Length:15465

body\_type

Length:15465

Class :character

1st Qu.:1.000

1st Qu.:3.000

1st Qu.:2.000

Class :character

Class :character

Mode :character

Median :1.000

Median :3.000

Median :2.000

Mode :character

Mode :character

Mean :1.126

Mean :2.932

Mean :2.267

Mean :2.932

Mean :2.267

Mean :2.267

3rd Qu.:1.000

3rd Qu.:3.000

3rd Qu.:3.000

3rd Qu.:3.000

3rd Qu.:3.000

3rd Qu.:3.000

Max. :5.000

Max. :5.000

Max. :5.000

Max. :5.000

Max. :5.000

Max. :5.000

real\_face

Length:15465

release\_clause\_eur

Mode:logical

player\_tags

Length:15465

team\_position

Length:15465

team\_jersey\_number

Min. : 1.0

loaned\_from

Length:15465

Class :character

NA's:15465

Class :character

Class :character

1st Qu.: 8.0

Class :character

Mode :character

Mode :character

Mode :character

Median :17.0

Mode :character

Mean :19.8

Mean :19.8

Mean :19.8

3rd Qu.:26.0

3rd Qu.:26.0

Max. :99.0

Max. :99.0

Max. :99.0

NA's :232

NA's :232

joined

Length:15465

contract\_valid\_until

Min. :2014

nation\_position

Length:15465

nation\_jersey\_number

Min. : 1.00

pace

Min. :22.00

shooting

Min. :22.00

passing

Min. :24.00

Class :character

1st Qu.:2015

Class :character

1st Qu.: 6.00

1st Qu.:62.00

1st Qu.:41.00

1st Qu.:49.00

Mode :character

Median :2016

Mode :character

Median :12.00

Median :69.00

Median :53.00

Median :57.00

Mean :2017

Mean :12.03

Mean :68.09

Mean :51.67

Mean :55.74

Mean :55.74

3rd Qu.:2019

3rd Qu.:18.00

3rd Qu.:76.00

3rd Qu.:62.00

3rd Qu.:63.00

3rd Qu.:63.00

Max. :2021

Max. :28.00

Max. :97.00

Max. :93.00

Max. :91.00

Max. :91.00

NA's :239

NA's :14409

NA's :1703

NA's :1703

NA's :1703

NA's :1703

dribbling

Min. :25.00

defending

Min. :21

physic

Min. :28.0

gk\_diving

Min. :35.00

gk\_handling

Min. :36.00

gk\_kicking

Min. :21.00

gk\_reflexes

Min. :31.00

gk\_speed

Min. :20.0

1st Qu.:54.00

1st Qu.:33

1st Qu.:58.0

1st Qu.:59.00

1st Qu.:55.00

1st Qu.:53.00

1st Qu.:60.00

1st Qu.:39.0

Median :62.00

Median :53

Median :66.0

Median :64.00

Median :61.00

Median :59.00

Median :65.00

Median :44.0

Mean :60.62

Mean :50

Mean :64.6

Mean :64.71

Mean :60.82

Mean :59.45

Mean :65.95

Mean :43.9

3rd Qu.:68.00

3rd Qu.:63

3rd Qu.:72.0

3rd Qu.:70.00

3rd Qu.:67.00

3rd Qu.:65.00

3rd Qu.:72.00

3rd Qu.:49.0

Max. :96.00

Max. :90

Max. :91.0

Max. :88.00

Max. :87.00

Max. :92.00

Max. :90.00

Max. :66.0

NA's :1703

NA's :1703

NA's :1703

NA's :13762

NA's :13762

NA's :13762

NA's :13762

NA's :13762

gk\_positioning

Min. :25.00

player\_traits

Min. :21

attacking\_crossing

Min. :28.0

attacking\_finishing

Min. :35.00

attacking\_heading\_accuracy

Min. :36.00

attacking\_short\_passing

Min. :21.00

1st Qu.:54.00

1st Qu.:33

1st Qu.:58.0

1st Qu.:59.00

1st Qu.:55.00

1st Qu.:53.00

1st Qu.:60.00

1st Qu.:39.0

Median :62.00

Median :53

Median :66.0

Median :64.00

Median :61.00

Median :59.00

Median :65.00

Median :44.0

Mean :60.62

Mean :50

Mean :64.6

Mean :64.71

Mean :60.82

Mean :59.45

Mean :65.95

Mean :43.9

3rd Qu.:68.00

3rd Qu.:63

3rd Qu.:72.0

3rd Qu.:70.00

3rd Qu.:67.00

3rd Qu.:65.00

3rd Qu.:72.00

3rd Qu.:49.0

Max. :96.00

Max. :90

Max. :91.0

Max. :88.00

Max. :87.00

Max. :92.00

Max. :90.00

Max. :66.0

NA's :1703

NA's :1703

NA's :1703

NA's :13762

NA's :13762

NA's :13762

NA's :13762

NA's :13762

16:56 Chunk 2 R Markdown

Console



ls	st	rs	lw	lf	cf
----	----	----	----	----	----

mentality_positioning	mentality_vision	mentality_penalties	mentality_composure	defending_marking	defending_standing_tackle
Length:15465	Length:15465	Length:15465	Mode:logical	Length:15465	Length:15465
Class :character	Class :character	Class :character	NA's:15465	Class :character	Class :character
Mode :character	Mode :character	Mode :character		Mode :character	Mode :character
defending_sliding_tackle	goalkeeping_diving	goalkeeping_handling	goalkeeping_kicking	goalkeeping_positioning	goalkeeping_reflexes
Length:15465	Length:15465	Length:15465	Length:15465	Length:15465	Length:15465
Class :character	Class :character	Class :character	Class :character	Class :character	Class :character
Mode :character	Mode :character	Mode :character	Mode :character	Mode :character	Mode :character
ls	st	rs	lw	lf	cf
Length:15465	Length:15465	Length:15465	Length:15465	Length:15465	Length:15465
Class :character	Class :character	Class :character	Class :character	Class :character	Class :character
Mode :character	Mode :character	Mode :character	Mode :character	Mode :character	Mode :character
rf	rw	lam	cam	ram	lm
Length:15465	Length:15465	Length:15465	Length:15465	Length:15465	Length:15465
Class :character	Class :character	Class :character	Class :character	Class :character	Class :character
Mode :character	Mode :character	Mode :character	Mode :character	Mode :character	Mode :character
lcm	cm	rcm	rm	lwb	ldm
Length:15465	Length:15465	Length:15465	Length:15465	Length:15465	Length:15465
Class :character	Class :character	Class :character	Class :character	Class :character	Class :character
Mode :character	Mode :character	Mode :character	Mode :character	Mode :character	Mode :character
cdm	rdm	rwb	lb	lcb	cb
Length:15465	Length:15465	Length:15465	Length:15465	Length:15465	Length:15465
Class :character	Class :character	Class :character	Class :character	Class :character	Class :character
Mode :character	Mode :character	Mode :character	Mode :character	Mode :character	Mode :character
rcb	rb				
Length:15465	Length:15465				
Class :character	Class :character				
Mode :character	Mode :character				



edala.Rmd x

## 10. Displaying Dimension of the data

```
51 {r}
52 dim(players_data)
53
```

```
[1] 15465    104
```

## 11.Displaying length of attack column

```
55 ~ ``{r}``
56 length(players_data$potential)
57 ^ ```
```

```
[1] 15465
```

## 58 12.Displaying column names of data

```
59 {r}
60 colnames(players_data)
61 }
```



[1]	"sofifa_id"	"player_url"	"short_name"	"long_name"
[5]	"age"	"dob"	"height_cm"	"weight_kg"
[9]	"nationality"	"club"	"overall"	"potential"
[13]	"value_eur"	"wage_eur"	"player_positions"	"preferred_foot"
[17]	"international_reputation"	"weak_foot"	"skill_moves"	"work_rate"
[21]	"body_type"	"real_face"	"release_clause_eur"	"player_tags"
[25]	"team_position"	"team_jersey_number"	"loaned_from"	"joined"
[29]	"contract_valid_until"	"nation_position"	"nation_jersey_number"	"pace"
[33]	"shooting"	"passing"	"dribbling"	"defending"
[37]	"physic"	"gk_diving"	"gk_handling"	"gk_kicking"
[41]	"gk_reflexes"	"gk_speed"	"gk_positioning"	"player_traits"
[45]	"attacking_crossing"	"attacking_finishing"	"attacking_heading_accuracy"	"attacking_short_passing"
[49]	"attacking_volleys"	"skill_dribbling"	"skill_curve"	"skill_fk_accuracy"
[53]	"skill_long_passing"	"skill_ball_control"	"movement_acceleration"	"movement_sprint_speed"
[57]	"movement_agility"	"movement_reactions"	"movement_balance"	"power_shot_power"
[61]	"power_jumping"	"power_stamina"	"power_strength"	"power_long_shots"
[65]	"mentality_aggression"	"mentality_interceptions"	"mentality_positioning"	"mentality_vision"
[69]	"mentality_penalties"	"mentality_composure"	"defending_marking"	"defending_standing_tackle"
[73]	"defending_sliding_tackle"	"goalkeeping_diving"	"goalkeeping_handling"	"goalkeeping_kicking"
[77]	"goalkeeping_positioning"	"goalkeeping_reflexes"	"ls"	"st"
[81]	"rs"	"lw"	"lf"	"cf"
[85]	"rf"	"rw"	"lm"	"cam"
[89]	"ram"	"lm"	"lcm"	"cm"
[93]	"rcm"	"rm"	"lwb"	"ldm"
[97]	"cdm"	"rdm"	"rwb"	"lb"
[101]	"lcb"	"cb"	"rcb"	"rb"

```
62 13.Displaying structure of some columns in the data
```

63

```
64 14.Displaying type of some dat
65 ```{r}
66 typeof(players_data$height_cm)
```

67 ▲





RStudio

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Run

19.Display 1st and 2nd row and all columns

{r}

players\_data[1:2,]

Description: df [2 x 104]

sofifa_id	player_url	short_name	long_name	age	dob	height_cm	weight_kg	nationality
1	158023 https://sofifa.com/player/158023/lionel-messi/15/157759	L. Messi	Lionel Andr�s Messi Cuccittini	27	1987-06-24	169	67	Argentina
2	20801 https://sofifa.com/player/20801/c-ronaldo-dos-santos-aveiro/15/157759	Cristiano Ronaldo	Cristiano Ronaldo dos Santos Aveiro	29	1985-02-05	185	80	Portugal

2 rows | 1-10 of 104 columns

20.Display all rows and first 3 columns

{r}

players\_data[,3]

[1] "L. Messi" "Cristiano Ronaldo" "A. Robben" "Z. Ibrahimovi  " "M. Neuer" "L. Su  rez" "E. Hazard" "R. van Persie"

[9] "B. Schweinsteiger" "F. Rib  ry" "G. Bale" "R. Lewandowski" "P. Lahm" "Sergio Ramos" "Thiago Silva"

[17] "David Silva" "L. Modri  " "J. Rodr  guez" "Neymar" "T. Courtois" "M. Hummels" "A. Di Mar  a" "M. Reus"

[25] "T. M  ller" "S. Ag  ero" "M. A  zil" "Xavi" "Y. Tour  " "W. Rooney" "V. Kompany" "M. G  tze"

[33] "Sergio Busquets" "T. Kroos" "K. Benzema" "E. Cavani" "Diego Costa" "A. Vidal" "H. Lloris" "Javi Martinez"

[41] "Juan Mata" "P.   tch" "C. T  vez" "Piqu  " "A. Turan" "A. Sanchez" "A. S  nchez" "Oscar"

[49] "S. Nasri" "M. Benatia" "S. Khedira" "G. Higua  n" "Casillas" "A. Pirlo" "Xabi Alonso"

[57] "D. De Rossi" "G. Chiellini" "W. Sneijder" "S. Santi Cazorla" "Cesc F   bregas" "D. God  n" "P. Pogba"

[65] "Isco" "I. G  nd  z" "De Gea" "J. Cuadrado" "D. Sturridge" "M. Pjanji  " "A. Ramsey" "Pedro"

[73] "E. Garay" "B. Matuidi" "S. Ruffier" "I. Rakiti  " "A. Candreva" "R. Weidenfeller" "J. Terry" "P. Mertesacker"

[81] "J. Toulalan" "Pepe" "A. Barzagli" "N. Vidi  " "J. Mascherano" "Negro" "Dani Alves" "Jes  s Navas"

[89] "Diego L  pez" "I. Akinfeev" "J. Farf  n" "Jo  o Moutinho" "S. Handanovi  " "Miranda" "C. Marchisio" "C. Bravo"

[97] "E. D  eko" "M. Mand  uki  " "S. Kagawa" "Hulk" "C. Eriksen" "M. ter Stegen" "A. Griezmann" "C. Vela"

[105] "D. Alaba" "Lucas" "M. Ham  ik" "M. Balotelli" "D. Mertens" "Marcelo" "N. Mat  " "B. Leno"

[113] "Koke" "J. Mart  nez" "G. Rossi" "A. Begovi  " "J. Vertonghen" "Sokratis" "B. H  wedes" "willian"

[121] "N. Suboti  " "N. Gait  n" "S. Doumbia" "J. Hart" "S. Mignolet" "David Luiz" "Lu  z Gustavo" "G. Buffon"

[129] "S. Gerrard" "T. Howard" "Danny" "J  lio C  sar" "R. Adler" "Alex" "Diego" "Diego"

[137] "P. Zabaleta" "Gabi" "M. Gomez" "R. Palacios" "Dante" "E. Lavezzi" "Borja Valero" "L. Baines"

[145] "S. Mandanda" "Filipe Lu  s" "J. B  ,aszczkowski" "L. Piszczek" "Hernanes" "F. Muslera" "F. Amorebielsa" "S. Feghouli"

[153] "R. Varane" "A. Laporte" "Coutinho" "Thiago" "K. De Bruyne" "T. Walcott" "Jordi Alba" "J. Wilshere"

[161] "K. Strootman" "H. Mkhitaryan" "Roberto Firmino" "G. dos Santos" "N.   zhin" "Leandro Cast  n" "S. Joveti  " "S. Joveti  "

[169] "Iturraspe" "W. Bony" "A. Sch  rle" "Gervinho" "S. Bender" "J. Hern  ndez" "M. Sakho" "Nani"

[177] "Ram  res" "S. Eto'o" "M. Klose" "Jos   Reina" "D. Berbatov" "D. Drogba" "A. Cole" "R. van der Vaart"

[185] "Fernando Torres" "N. de Jong" "C. Carrasco" "Felipe Melo" "Fernandinho" "S. Kie  ling" "T. Zengin" "Soldado"

[193] "Lu  s  o" "D. Agger" "C. Dempsey" "R. Montolivo" "Llorente" "M. Bousoufa" "G. Cahill" "L. Koscielny"

[201] "Diego Alves" "M. A  rtel" "Y. Cabaye" "B. Ivanovi  " "Rodrigo" "Beto" "C. Bacca" "S. El Shaarawy"

[209] "Parejo" "E. Mangala" "R. Lukaku" "Susaeta" "M. Verratti" "R. Sterling" "IA  go Mart  nez" "Bernard"

[217] "A. Witsel" "E. Banega" "C. Benteke" "Paulinho" "Munia  n" "C. Immobile" "X. Shaqiri"

[225] "J. Draxler" "M. Schneiderlin" "Rui Patr  cio" "K. Trapp" "N. Otamendi" "H. Badstuber" "M. Gonalons"

[233] "R. Rodriguez" "C. Emenike" "Jos   Casilla" "S. Sam" "W. Szcz  sny" "A. Dzyuba" "S. Rond  n"

[241] "M. Demb  l  " "G. Castro" "K. Boateng" "Be  at" "A. Cerci" "L. R  my" "D. Lovren" "D. Tadi  "

[249] "K. Mirallas" "S. Kj  r" "O. Kiv  rak" "F. Totti" "Tiago" "A. Barry" "A. Cassano" "T. Rosicky  "

[257] "Quaresma" "Ronaldo" "Mikel Arteta" "J. Defoe" "P. Evra" "E. Adebayor" "Iraola" "Aduriz"

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Chunk 2

R Markdown

Console

Windows Taskbar



R Markdown 

RStudio

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Addins

Project: (None)

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Run

Knit

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Addins

[657] "L. Cigarini"

[665] "Rafinha"

[673] "C. Jacob"

[681] "M. De Sciglio"

[689] "D'Aria"

[697] "Bruno Fernandes"

[705] "A. Potuk"

[713] "L. Fer"

[721] "J. Clasie"

[729] "M. wakaso"

[737] "B. Natkho"

[745] "Diego Capel"

[753] "Y. Mulumbu"

[761] "T. Jantschke"

[769] "C. Gibson"

[777] "C. DiabatA"

[785] "A. Guardado"

[793] "M. Schwarzer"

[801] "R. Santa Cruz"

[809] "T. Barnetta"

[817] "A. Meier"

[825] "R. Huth"

[833] "Tito"

[841] "H. Bedimo"

[849] "D. Abraham"

[857] "F. Gago"

[865] "N. Moisaner"

[873] "Ricardo"

[881] "Y. Nagatomo"

[889] "M. KovaA\u008diA"

[897] "RA\u00mulo"

[905] "J. Ananidze"

[913] "A. Paloschi"

[921] "R. Knoche"

[929] "T. Necid"

[937] "S. Corchia"

[945] "J. Veltman"

[953] "Fabiano"

[961] "V. wanyama"

[969] "MontaA\u00s"

[977] "J. Cork"

[985] "J. Baumgartlinger"

[993] "Aleix"

[657] "Siqueira"

[665] "M. BiAjevac"

[673] "E. Giaccherini"

[681] "M. Perin"

[689] "M. Salah"

[697] "G. Rulli"

[705] "J. Geis"

[713] "C. Smalling"

[721] "H. Son"

[729] "T. Heurtaux"

[737] "V. Aboubakar"

[745] "V. Kavlak"

[753] "I. TraorA"

[761] "F. Montero"

[769] "S. Defour"

[777] "S. Rudy"

[785] "Bueno"

[793] "Eliseu"

[801] "R. M\u0000rquez"

[809] "C. Ledesma"

[817] "N. Valdez"

[825] "Amaya"

[833] "Roberto"

[841] "S. Davis"

[849] "S. Naismith"

[857] "A. Kasaev"

[865] "I. Piatti"

[873] "C. S\u0000nchez"

[881] "M. DeviA"

[889] "A. Correa"

[897] "A. Maher"

[905] "Hugo Mallo"

[913] "Marlos"

[921] "L. Bittencourt"

[929] "M. Sissoko"

[937] "W. Khazri"

[945] "C. Vargas"

[953] "F. Borini"

[961] "Candeias"

[969] "A. Mandi"

[977] "Z. JunuzoviA"

[985] "M. Schmiedebach"

[993] "K. Bellarabi"

[657] "M. ErdinA\u00s"

[665] "P. Osvaldo"

[673] "S. Okazaki"

[681] "L. Kurzawa"

[689] "I. Gueye"

[697] "N. MaksimoviA"

[705] "A. Florenzi"

[713] "A\u0000u0081lvaro Dom\u0000nguez"

[721] "C. Atsu"

[729] "A. Mehmedi"

[737] "A. Lopes"

[745] "S. Aigner"

[753] "R. Neust\u0000dter"

[761] "Pizzi"

[769] "E. Elia"

[777] "S\u0000lvio"

[785] "Henrique"

[793] "S. Parker"

[801] "A. Ivanschitz"

[809] "Fernando Navarro"

[817] "A. KonA"

[825] "B. D\u0000kemaili"

[833] "A. Dikan"

[841] "T. Sivok"

[849] "J. Diaby"

[857] "J. Vargas"

[865] "Felipe Santana"

[873] "M. Abdellaoue"

[881] "N. VeldevA\u00s"

[889] "D. Origi"

[897] "S. Zaza"

[905] "M. Gabbiadini"

[913] "A. DragoviA"

[921] "V. Germain"

[929] "J. Kana-Biyik"

[937] "I. Fetfatzidis"

[945] "Z. KuzmanoviA"

[953] "F. Di Santo"

[961] "F. Rossi"

[969] "V. van Dijk"

[977] "W. Reid"

[985] "Y. El Arabi"

[993] "EdenA\u0000son"

[657] "P. Wernbloom"

[665] "D. Ya Konan"

[673] "S. La Cruz"

[681] "Jorginho"

[689] "M\u0000rrio Fernandes"

[697] "J. Dos Santos"

[705] "Rub\u0000n Pardo"

[713] "L. Kweuke"

[721] "Andr\u0000s Fern\u0000ndez"

[729] "A\u0000der"

[737] "Casemiro"

[745] "F. Lustenberger"

[753] "C. Tra\u0000sch"

[761] "P. Wollscheid"

[769] "P. TytoA\u0000"

[777] "L. SanA"

[785] "D. Tarasov"

[793] "R. Lambert"

[801] "J. Olsson"

[809] "J. Vald\u0000s"

[817] "S. Muntari"

[825] "A. Dom\u0000nguez"

[833] "V. Gabulov"

[841] "M. Sissoko"

[849] "M. Jarvis"

[857] "F. Higua\u0000n"

[865] "Welligton"

[873] "C. Noboa"

[881] "Hernane"

[889] "F. A\u0000u0090uriA\u0000u008diA"

[897] "M. Batshuayi"

[905] "A. Musa"

[913] "N. Clyne"

[921] "V. Ibarbo"

[929] "Yoel"

[937] "Jonathan Viera"

[945] "J. Rodriguez"

[953] "F. Djordjevic"

[961] "Xand\u0000fo"

[969] "O. Niasse"

[977] "L. Fejsa"

[985] "A. Finnbogason"

[993] "Diogo Figueiras"

[657] "M. Berg"

[665] "Guilherme"

[673] "J. Aranguren"

[681] "B. Keita"

[689] "G. Xhaka"

[697] "C. Erkin"

[705] "S. Umriti"

[713] "R\u0000mulo"

[721] "E. Choupo-Moting"

[729] "Iago Aspas"

[737] "C\u0000dric"

[745] "J. De Guzm\u0000n"

[753] "B. Ideye"

[761] "M. Badelj"

[769] "Antunes"

[777] "Adri\u0000n"

[785] "A. Nyom"

[793] "D. Kuyl"

[801] "R. Sch\u0000fer"

[809] "A. Boruc"

[817] "Artur Moraes"

[825] "P. Web\u0000"

[833] "V. Malafeev"

[841] "N. Kranj\u0000A\u0000u008dar"

[849] "Charles"

[857] "Jardel"

[865] "Nacho Monreal"

[873] "Wanderson"

[881] "P. P\u0000rez"

[889] "Sergi Roberto"

[897] "J. Campbell"

[905] "D. Klaassen"

[913] "S. Ta\u0000der"

[921] "M. JojiA"

[929] "F. Tabanou"

[937] "Andr\u0000 Martins"

[945] "V. Moses"

[953] "Jefferson"

[961] "L. Narsingh"

[969] "N. Ghilas"

[977] "Maicon"

[985] "Mexer"

[993] "H. Kiyotake"

[657] "A. Fern\u0000ndez"

[665] "Luiz Adriano"

[673] "D. Berardi"

[681] "M. van Ginkel"

[689] "L. Digne"

[697] "J. Rodwell"

[705] "A. G\u0000mez"

[713] "Neto"

[721] "S. Giovinco"

[729] "K. Manolas"

[737] "V. Chiriche\u0000"

[745] "M. Harnik"

[753] "B. EcuA\u0000lA\u0000 Manga"

[761] "E. G\u0000l\u0000m"

[769] "Maur\u0000cio"

[777] "D. Caligiuri"

[785] "G. Medel"

[793] "N. Rimando"

[801] "K. Kuranyi"

[809] "T. Starke"

[817] "Sergio Garc\u0000a"

[825] "A. OriA\u0000n"

[833] "A. Anyukov"

[841] "I. Afellay"

[849] "Adriano"

[857] "S. Ireland"

[865] "P. CissA"

[873] "O. Alonso"

[881] "A. Januzaj"

[889] "V. Fischer"

[897] "F. Sch\u0000r"

[905] "M. Arnold"

[913] "B. Martins Indi"

[921] "F. Forster"

[929] "G. Fofana"

[937] "G. Kondogbia"

[945] "T. Kraft"

[953] "D. Janmaat"

[961] "M. Braithwaite"

[969] "V\u0000ctor Rodr\u0000guez"

[977] "T. Huddleston"

[985] "A. Marches\u0000n"

[993] "I. Slimani"

[657] "Manuel da Costa"

[665] "M. Pereira"

[673] "M. Icardi"

[681] "Fernando"

[689] "JesA\u0000 Rodr\u0000guez"

[697] "A. Ljaji\u0000"

[705] "M. Yanga-M\u0000biwa"

[713] "M. H\u0000lger"

[721] "R. Alessandrini"

[729] "P. Herrmann"

[737] "H. Herrera"

[745] "K. Grosicki"

[753] "B. Dost"

[761] "M. Z\u0000jrate"

[769] "M. Isla"

[777] "S. Fletcher"

[785] "Portillo"

[793] "Alan"

[801] "J. Heitinga"

[809] "A. Kerzhakov"

[817] "G. Pazzini"

[825] "A. Pyatov"

[833] "C. Maggio"

[841] "O. Peralta"

[849] "Valera"

[857] "L. Sch\u0000ne"

[865] "P. Diop"

[873] "N. Al Shamrani"

[881] "M. Meyer"

[889] "J. Bo\u0000tius"

[897] "Andr\u0000 Gomes"

[905] "E. A\u0000u0081lvarez Balanta"

[913] "F. Ghoulam"

[921] "P. Hetemaj"

[929] "A. McCarthy"

[937] "Lu\u0000s Neto"

[945] "H. Nordtveit"

[953] "Douglas"

[961] "Juan Dominguez"

[969] "T. Huddleston"

[977] "D. Santon"

[985] "A. Marches\u0000n"

[993] "Derley"

[657] "B. Tra\u0000moulinas"

[665] "M. Parolo"

[673] "Lucas Piazon"

[681] "T. Hazard"

[689] "Bruma"

[697] "S. Caulker"

[705] "Koo Ja Cheol"

[713] "Marc Bartra"

[721] "A. Szalai"

[729] "B. Stambouli"

[737] "S. Bolat"

[745] "Xavi Torres"

[753] "Daniel Carri\u0000\u0000"

[761] "D. Aogo"

[769] "M. Su\u0000irez"

[777] "R. Shishkin"

[785] "J. IljiA\u0000u008diA"

[793] "W. Samuel"

[801] "F. Balmont"

[809] "Jonatan Soriano"

[817] "G. Johnson"

[825] "G. G\u0000l\u0000n\u0000l"

[833] "J. Drobn\u0000\u0000"

[841] "L. Osman"

[849] "D. Digard"

[857] "Carlos Mart\u0000nez"

[865] "M. Sall"

[873] "M. Suba\u0000jiA"

[881] "L. Shaw"

[889] "I. Hajrovi\u0000"

[897] "M. Lestienne"

[905] "F. Delph"

[913] "O. Onazi"

[921] "F. Caicedo"

[929] "L. de Jong"

[937] "L. Ocampos"

[945] "Y. Mollo"

[953] "M. Sau"

[961] "Tom\u0000s Pina"

[969] "L. Cattermole"

[977] "Bamba Anderson"

[985] "J. Schmid"

[993] "Derley"

[ reached getopt("max.print") -- omitted 14465 entries ]

23. Adding a new column to dataframe

24. Display sum of weight\_kg column

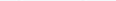
[1] 2800613

16:56

Chunk 2

R Markdown

Console



age, attacking\_crossing, attacking\_finishing, attacking\_heading\_accuracy, attacking\_short\_passing, attacking\_volley, body\_type, cam, cb, cdm, cf, club, cm, contract\_valid\_until, defending, defending\_marking, defending\_sliding\_tackle, defending\_standing\_tackle, dob, dribbling, gk\_diving, gk\_handling, gk\_kicking, gk\_positioning, gk\_reflexes, gk\_speed, goalkeeping\_diving, goalkeeping\_handling, goalkeeping\_kicking, goalkeeping\_positioning, goalkeeping\_reflexes, height\_cm, international\_reputation, joined, lam, lb, lcb, lcm, ldm, lf, lm, loaned\_from, long\_name, ls, lw, lwb, mentality\_aggression, mentality\_composure, mentality\_interceptions, mentality\_penalties, mentality\_positioning, mentality\_vision, movement\_acceleration, movement\_agility, movement\_balance, movement\_reactions, movement\_sprint\_speed, nation\_jersey\_number, nation\_position, nationality, overall, pace, passing, physic, player\_positions, player\_tags, player\_traits, player\_url, potential, power\_jumping, power\_long\_shots, power\_shot\_power, power\_stamina, power\_strength, preferred\_foot, ram, rb, rcb, rcm, rdm, real\_face, release\_clause\_eur, rf, rm, rs, rw, rwb, shooting, short\_name, skill\_ball\_control, skill\_curve, skill\_dribbling, skill\_fk\_accuracy, skill\_long\_passing, skill\_moves, sofifa\_id, st, team\_jersey\_number, team\_position, value\_eur, wage\_eur, weak\_foot, weight\_kg, work\_rate

age, attacking\_crossing, attacking\_finishing, attacking\_heading\_accuracy, attacking\_short\_passing, attacking\_volley, body\_type, cam, cb, cdm, cf, club, cm, contract\_valid\_until, defending, defending\_marking, defending\_sliding\_tackle, defending\_standing\_tackle, dob, dribbling, gk\_diving, gk\_handling, gk\_kicking, gk\_positioning, gk\_reflexes, gk\_speed, goalkeeping\_diving, goalkeeping\_handling, goalkeeping\_kicking, goalkeeping\_positioning, goalkeeping\_reflexes, height\_cm, international\_reputation, joined, lam, lb, lcb, lcm, ldm, lf, lm, loaned\_from, long\_name, ls, lw, lwb, mentality\_aggression, mentality\_composure, mentality\_interceptions, mentality\_penalties, mentality\_positioning, mentality\_vision, movement\_acceleration, movement\_agility, movement\_balance, movement\_reactions, movement\_sprint\_speed, nation\_jersey\_number, nation\_position, nationality, overall, pace, passing, physic, player\_positions, player\_tags, player\_traits, player\_url, potential, power\_jumping, power\_long\_shots, power\_shot\_power, power\_stamina, power\_strength, preferred\_foot, ram, rb, rcb, rcm, rdm, real\_face, release\_clause\_eur, rf, rm, rs, rw, rwb, shooting, short\_name, skill\_ball\_control, skill\_curve, skill\_dribbling, skill\_fk\_accuracy, skill\_long\_passing, skill\_moves, sofifa\_id, st, team\_jersey\_number, team\_position, value\_eur, wage\_eur, weak\_foot, weight\_kg, work\_rate



R Markdown 



RStudio

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Project: (None)

edala.Rmd

Run

Knit

153

154

155 36.Finding variance of data

156 {r}

157 var(players\_data\$height\_cm)

158

[1] 44.02564

159

160

161 37.order the height\_cm column in ascending order

162 {r}

163 order(players\_data[7])

164

warning in xtfrm.data.frame(x) : cannot xtfrm data frames

[1] 13518 4103 13939 3211 3487 5841 1228 1631 2549 6511 10783 11144 12348 13745 2798 3344 3601 3837 3881 5851 6260 6358 10071 14397 14567 294 417 2265 2478 2660 3188 3567 3776 3924 3926

[36] 4776 5323 5439 6097 6125 6236 9372 11143 11471 11669 12776 13708 14341 216 726 1246 1343 1930 2330 3094 3248 3283 3713 4252 5735 6241 6278 7039 7079 7086 7164 7255 7905 9059 9435

[71] 10953 11436 12163 13135 15065 213 376 710 1191 1344 1499 2249 2257 2814 3268 3508 3834 4027 4116 4165 4247 4259 4456 4460 4498 5028 5381 5423 5430 5572 6070 6225 6476 6679 6697

[106] 6723 7228 7423 7480 7698 8036 8343 8909 8941 9587 9787 10086 10617 10784 11009 11077 11138 11374 12000 12181 12186 12308 12521 12606 12814 12823 12931 13023 13126 13211 13428 13502 13707 13906 13972

[141] 13993 13996 14000 14091 14128 14412 14500 14989 15025 15336 15355 453 1569 1740 1935 2052 2109 2193 2297 2760 3101 3251 3537 3836 4235 4925 5227 6177 6447 6747 6950 7390 7574 8430 10453

[176] 10542 10967 11948 12165 12253 13328 13373 13390 14172 14969 15268 15385 15430 198 204 665 674 1068 1333 13989 2286 2430 2575 2581 2650 2852 3392 3464 3611 3694 3929 3976 4055 4149 4218

[211] 4408 4523 4610 4640 4669 4873 5171 5178 5428 5445 6611 6783 6924 7091 7111 7222 7233 7332 7477 7636 7715 8296 8614 9074 9106 9317 9411 9487 10313 10370 10680 10780 10919 11389 11443

[246] 11984 12593 12803 12821 12974 13110 13112 13590 13693 13927 14739 14773 14820 14979 15249 15267 15271 60 548 646 808 908 939 996 1027 1045 1084 1255 1282 1315 1326 1418 1466 1560 1660

[281] 1715 1792 1836 1840 1858 1861 1867 1920 2015 2067 2092 2175 2196 2356 2512 2641 2707 2809 2818 2833 2851 2894 3002 3009 3093 3298 3372 3509 3638 3781 3806 3856 3908 3925 4093

[316] 4105 4191 4265 4525 4668 4697 4738 5329 5373 5392 5417 5570 5638 5737 5852 5859 5985 5988 6087 6141 6228 6291 6464 6482 6486 6653 7052 7196 7314 7326 8078 8085 8205 8230 8240

[351] 8241 8299 8313 8440 8609 8808 9019 9060 9186 9237 9245 9421 9469 9527 9636 9717 9785 9825 9859 9876 9891 9959 10052 10120 10447 10489 10581 10625 10704 10980 10982 11084 11151 11314 11322

[386] 11331 11399 11594 11699 11748 12051 12137 12175 12211 12463 12479 12529 12647 12649 12659 12674 12735 12826 12847 12910 12934 12990 13044 13059 13131 13214 13215 13326 13397 13531 13712 13809 13957 14100 14155

[421] 14490 14529 14566 14613 14645 14760 14832 14891 14968 14981 15139 15151 15256 15426 1 72 109 222 224 406 721 785 791 941 960 1024 1029 1157 1337 1417 1786 1839 1910 1985 2040

[456] 2296 2299 2854 2861 3092 3164 3306 3330 3371 3373 3377 3561 3666 3688 3701 4076 4234 4299 4323 4401 4541 4625 4664 4817 4823 4874 5002 5316 5401 5410 5513 5527 5559 5666 5709

[491] 5837 6123 6163 6272 6427 6436 7104 7333 7416 7420 7473 7504 7818 8073 8087 8121 8150 8202 8286 8526 8697 8731 8838 8922 9415 9441 9561 9803 9846 9870 9916 10068 10229 10368

[526] 10535 10934 11431 11438 11473 11623 11732 11856 11972 12117 12141 12316 12361 12582 12622 12715 12746 12753 13447 13568 13611 13804 13811 14055 14359 14465 14950 15077 15227 15344 10 14 17 28 59

[561] 88 144 159 214 229 260 357 478 538 546 561 572 627 650 852 881 905 940 974 986 1034 1044 1158 1167 1297 1302 1340 1471 1492 1563 1565 1618 1721 1739 1763

[596] 1855 1877 1929 1953 2019 2041 2059 2114 2119 2224 2225 2270 2285 2306 2320 2348 2394 2444 2542 2580 2612 2651 2656 2666 2717 2755 2762 2771 2794 2797 2827 2830 2872 2883 2888

[631] 2900 2919 2929 3028 3040 3084 3120 3163 3200 3244 3274 3319 3411 3462 3558 3575 3693 3702 3731 3735 3865 3918 3978 4032 4033 4185 4238 4307 4399 4427 4472 4515 4531 4612 4620

[666] 4627 4628 4661 4678 4685 4708 4733 4735 4782 4805 4826 4880 4932 5087 5128 5129 5219 5256 5327 5362 5459 5522 5535 5537 5563 5578 5588 5623 5631 5650 5656 5691 5744 5745 5779

[701] 5856 5882 6047 6142 6180 6220 6259 6270 6330 6347 6385 6443 6454 6498 6510 6532 6604 6657 6678 6696 6712 6848 6867 6891 6892 6899 6939 7032 7085 7095 7124 7215 7250 7259 7261

[736] 7263 7361 7382 7383 7387 7402 7407 7448 7512 7589 7604 7664 7672 7749 7828 7844 7891 7942 7947 7995 8014 8091 8110 8165 8254 8282 8318 8340 8389 8444 8447 8468 8508 8568 8631

[771] 8661 8682 8686 8947 8977 8988 9013 9068 9082 9094 9096 9101 9127 9152 9185 9204 9255 9268 9344 9356 9381 9397 9400 9444 9484 9515 9542 9583 9631 9707 9762 9775 9793 9800 9830

[806] 9854 9887 9921 9983 10048 10050 10072 10093 10099 10117 10192 10218 10223 10234 10238 10248 10282 10384 10401 10408 10510 10544 10559 10628 10657 10664 10775 10789 10849 10901 10915 10938 10983 11025 11032

[841] 11034 11113 11186 11321 11328 11371 11450 11463 11500 11515 11516 11631 11680 11686 11720 11737 11743 11807 11852 11936 11939 11943 12003 12036 12036 12040 12048 12056 12161 12220 12241 12282 12300 12330 12405

[876] 12442 12448 12495 12501 12502 12551 12560 12605 12607 12614 12620 12642 12719 12742 12766 12770 12874 12875 12882 12888 12965 12983 12999 13006 13017 13170 13212 13364 13387 13410 13413 13420 13421 13430 13462

[911] 13476 13545 13612 13645 13652 13688 13692 13697 13749 13787 13814 13819 13910 13962 13999 14029 14050 14058 14106 14143 14235 14272 14284 14300 14348 14385 14388 14456 14493 14517 14522 14535 14557 14586 14683

[946] 14695 14716 14740 14779 14815 14826 14847 14851 14875 14881 14887 14918 14929 14951 14957 15184 15191 15216 15240 15250 15269 15373 15416 15418 15434 47 92 155 304 412 463 729 790 922 1049

[981] 1110 1165 1171 1206 1256 1433 1504 1573 1625 1750 1954 1992 2145 2244 2311 2355 2379 2406 2419 2508

[ reached getoption("max.print") -- omitted 14465 entries ]

165

166

167 38.order the potential column in descending order

168 {r}

169 order(players\_data\$potential,decreasing =TRUE)

170

16:56 Chunk 2

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20:51 15-07-2021



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167 38.order the potential column in descending order

168 {r}

169 order(players\_data\$potential,decreasing =TRUE)

170

[1] 1 2 19 6 12 20 32 3 4 5 7 21 13 33 45 64 8 9 10 11 22 23 24 25 34 46 47 65 101 102 103 152 153 154 401

[36] 528 1515 14 15 16 17 18 26 27 35 36 37 38 48 66 67 68 104 105 106 208 402 678 886 887 2329 28 29 30 31 39 40 41 42 49

[71] 50 51 69 70 71 72 107 108 155 156 157 209 210 211 212 213 214 215 216 220 403 404 405 406 679 680 681 888 889 890 2781 2782 3311 43 44 52

[106] 53 73 74 109 110 111 112 113 114 158 159 160 161 162 163 217 218 219 220 221 222 223 224 225 290 291 292 293 294 295 407 529 530 531 532

[141] 682 683 684 685 891 1147 1148 1149 1516 1517 1518 1519 2330 2783 54 55 56 57 58 59 60 61 62 63 75 76 77 115 116 117 118 119 120 121 122

[176] 123 164 165 166 167 168 169 170 171 226 227 228 229 230 231 232 233 234 296 297 298 299 300 301 302 303 304 305 306 307 308 309 408 409 410

[211] 411 412 533 534 535 536 537 538 686 687 688 689 690 892 893 894 895 1150 1151 1152 1520 1888 1889 1890 1891 1892 2331 5428 6234 9001 78 79 80 81 82

[246] 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 124 125 126 127 172 173 174 175 235 236 237 238 239 240 310 311 312

[281] 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 413 414 415 416 417 418 419 420 421 422 423 424 425 539 540 541 542 543 544 691

[316] 692 693 694 695 696 697 698 699 896 897 898 899 900 901 902 903 1153 1154 1155 1156 1157 1158 1521 1522 1523 1524 1525 1526 1527 1528 1893 1894 1895 1896 2332

[351] 2333 2784 2785 2786 3312 3885 3886 3887 3888 3889 4638 4639 4640 4641 5429 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147

[386] 148 149 150 151 176 177 241 242 243 244 245 246 247 248 328 329 330 331 332 333 334 335 336 337 338 339 426 427 428 429 430 431 432 433 434

[421] 435 436 437 438 439 440 441 442 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 700 701 702 703 704 705 706 707 708 709 904

[456] 905 906 907 908 909 910 911 1159 1160 1161 1162 1163 1164 1165 1166 1167 1529 1530 1531 1532 1533 1897 1898 1899 1900 1901 1902 1903 2334 2335 2336 2337 2338 2787 2788

[491] 2789 2790 3313 3314 3890 3891 3892 3893 4642 4643 4644 4645 4646 4647 7114 7115 8102 9002 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194

[526] 195 196 197 198 199 200 201 202 203 204 205 206 207 249 250 251 340 341 342 343 344 443 444 445 446 447 448 449 450 451 452 453 561 562 563

[561] 564 565 566 567 568 569 570 571 572 573 574 575 710 711 712 713 714 715 716 717 718 719 720 721 722 723 912 913 914 915 916 917 918 919 920

[596] 921 922 923 924 925 1168 1169 1170 1171 1172 1173 1174 1534 1535 1536 1537 1538 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 2339 2340 2341 2342 2343 2344 2345 2346

[631] 2791 2792 2793 2794 2795 2796 2797 2798 2799 3315 3316 3317 3318 3319 3320 3894 3895 4648 4649 4650 5430 5431 6235 6236 7116 8103 8104 8105 9003 9004 9005 9006 9823 10552 252

[666] 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287

[701] 288 289 345 346 347 348 454 455 456 457 458 459 460 461 462 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 724 725 726

[736] 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944

[771] 945 946 1175 1176 1177 1178 1179 1180 1181 1182 1183 1184 1185 1186 1187 1188 1189 1190 1191 1192 1193 1194 1195 1196 1197 1539 1540 1541 1542 1543 1544 1545 1546 1547 1548

[806] 1549 1550 1551 1552 1553 1554 1555 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 2347 2348 2349 2350 2351 2352 2800 2801 2802 2803 2804 2805 2806 2807 3321 3322 3896 3897

[841] 3898 4651 4652 4653 4654 4655 5432 5433 5434 5435 6237 6238 6239 7117 7118 7119 7120 7121 8106 9007 9824 9825 9826 9827 10553 10554 10555 11382 11383 11989 11990 349 350 351 352

[876] 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387

[911] 388 389 390 391 392 393 394 395 396 397 398 399 400 463 464 465 593 594 595 596 597 598 743 744 745 746 747 748 749 750 751 752 753 754 755

[946] 756 757 758 759 760 761 762 763 764 765 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971

[981] 972 973 974 1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214

[ reached getoption("max.print") -- omitted 14465 entries ]

171

172

173 39.Rank of potential column

174 {r}

175 rank(players\_data\$height\_cm)

176

[1] 495.0 11023.5 6742.0 15232.5 14920.0 7721.0 1835.0 12470.0 9304.0 763.0 4161.5 9304.0 10175.5 763.0 9304.0 9304.0 763.0 2294.0 6742.0 2905.0 15442.5 14683.5 6742.0 7721.0 11860.0 1390.5

[27] 9304.0 763.0 13651.0 3598.0 14683.5 3598.0 13651.0 8396.0 10175.5 10175.5 13121.5 6742.0 13121.5 14006.0 2294.0 14683.5 15320.0 1835.0 14683.5 4161.5 1089.5 5786.0 2905.0 13121.5 13651.0 10175.5

[53] 14683.5 11023.5 4161.5 9304.0 11023.5 11860.0 763.0 348.5 11860.0 5786.0 11860.0 13121.5 3598.0 6742.0 14920.0 3598.0 9304.0 6742.0 4161.5 495.0 13121.5 2905.0 13121.5 10175.5 7721.0 13121.5

[79] 12470.0 15418.5 9304.0 13121.5 11860.0 14006.0 2294.0 11860.0 1835.0 763.0 15320.0 11860.0 4980.5 1089.5 14920.0 11860.0 5786.0 11023.5 14920.0 12470.0 1390.5 6742.0 4161.5 13651.0 3598.0 4161.5

[105] 6742.0 1390.5 9304.0 13121.5 495.0 2294.0 15122.0 14006.0 4980.5 11023.5 1835.0 15453.0 13651.0 11023.5 12470.0 2905.0 14920.0 1835.0 4980.5 15320.0 14920.0 13651.0 12470.0 14393.0 9304.0 14393.0

[131] 4980.5 11860.0 12470.0 14393.0 13121.5 1835.0 4980.5 6742.0 13651.0 2905.0 13121.5 1835.0 2905.0 763.0 11023.5 8396.0 2905.0 10175.5 6742.0 14006.0 15122.0 4161.5 14393.0 13651.0 1089.5 1390.5

[157] 7721.0 3598.0 763.0 1390.5 11860.0 4980.5 7721.0 2905.0 6742.0 10175.5 10175.5 9304.0 12470.0 8396.0 9304.0 5786.0 11023.5 2905.0 12470.0 2905.0 6742.0 5786.0 10175.5 13121.5 13651.0 13121.5

[183] 3598.0 3598.0 11860.0 2294.0 12470.0 9304.0 3598.0 14393.0 14683.5 5786.0 14683.5 14393.0 11023.5 8396.0 15232.5 225.5 14920.0 11860.0 13121.5 14393.0 2905.0 225.5 11023.5 8396.0 7721.0 4980.5

[209] 6742.0 12470.0 14006.0 6742.0 113.5 763.0 7721.0 62.0 11860.0 2294.0 14006.0 7721.0 5786.0 495.0 7721.0 495.0 12470.0 7721.0 14006.0 13651.0 763.0 9304.0 14006.0 12470.0 6742.0 8396.0

[235] 14393.0 2294.0 4980.5 15320.0 15122.0 13651.0 11023.5 1390.5 11860.0 2905.0 4980.5 10175.5 13121.5 7721.0 4980.5 14006.0 12470.0 6742.0 9304.0 2905.0 4980.5 2905.0 8396.0 2905.0 763.0

[261] 1835.0 14393.0 8396.0 8396.0 14683.5 2905.0 15122.0 12470.0 8396.0 11023.5 2294.0 3598.0 1390.5 3598.0 14006.0 11023.5 4980.5 6742.0 3598.0 7721.0 15418.5 13651.0 6742.0 15232.5 10175.5 3598.0

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Chunk 2

R Markdown

Console

ENG IN

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