Pokemon

Curso de Estadística Descriptiva

9/1/2019

Pokemon (Py -> R)

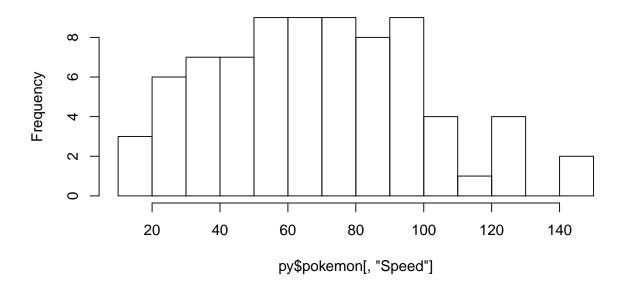
Limpieza de datos en Python

```
import pandas as pd
pokemon = pd.read_csv("../../data/Pokemon.csv")
print(pokemon.head())
##
                       Name Type 1 Type 2 ...
                                                 Speed
                                                        Generation Legendary
## 0
                  Bulbasaur Grass
                                    Poison
                                                    45
                                                                        False
                                                                 1
## 1
                                                    60
                                                                 1
                                                                        False
                    Ivysaur Grass
                                    Poison ...
                                                                 1
## 2
                   Venusaur Grass Poison ...
                                                    80
                                                                        False
## 3 VenusaurMega Venusaur Grass
                                    Poison
                                                    80
                                                                 1
                                                                        False
## 4
                 Charmander
                              Fire
                                       {\tt NaN}
                                                    65
                                                                        False
##
## [5 rows x 12 columns]
print(pokemon.shape)
## (800, 12)
pokemon = pokemon[pokemon["Generation"]==1]
pokemon = pokemon[["Type 1", "Type 2", "Speed"]]
print(pokemon.shape)
## (166, 3)
pokemon = pokemon.dropna()
print(pokemon.shape)
## (78, 3)
```

Transmisión de los datos de Python a R



Velocidad de los Pokemon



Pokemon (R \rightarrow Py)

Carga de datos en R

```
pokemon2 <- read.csv("../../data/Pokemon.csv", header = TRUE)
head(pokemon2)</pre>
```

##			Name	Type.1	Type.2	Total	НР	Attack	Defense	Sp Atk	Sp Def
##	1				Poison			49	49	65	65
##	2	Ivysaur 0		Grass	Poison	405	60	62	63	80	80
##	3	Venusaur		Grass	Poison	525	80	82	83	100	100
##	4	VenusaurMega	Venusaur	Grass	Poison	625	80	100	123	122	120
##	5	Ch	Fire		309	39	52	43	60	50	
##	6	Ch	Fire		405	58	64	58	80	65	
##		Speed Generat									
##	1	45	1 1	False							
##	2	60	1 1	False							
##	3	80	1 1	False							
##	4	80	1 1	False							
##	5	65	1 1	False							
##	6	80	1 1	False							

library(tidyverse) ## -- Attaching packages ----- tidyverse 1.3.0 --## v ggplot2 3.3.0 0.3.4 v purrr ## v tibble 3.0.1 v dplyr 0.8.5 ## v tidyr 1.0.3 v stringr 1.4.0 ## v readr 1.3.1 v forcats 0.5.0 ## -- Conflicts ------ tidyverse_conflicts() --## x dplyr::filter() masks stats::filter() ## x dplyr::lag() masks stats::lag() pokemon2 <- pokemon2 %>% filter(Generation == 1) %>% select(Type.1, Type.2, Speed) %>% na.omit() summary(pokemon2) ## Speed Type.1 Type.2 ## Water :31 :88 Min. : 15.00 ## Normal:24 Flying:23 1st Qu.: 50.00 :14 Poison :22 Median : 70.00 ## Bug ## Fire :14 Psychic: 7 Mean : 72.58 ## Poison:14 Ground:6 3rd Qu.: 92.25 ## Grass :13 Water : 4 Max. :150.00 ## (Other):56 (Other):16

Transmisión de datos de R a Python

```
print(r.pokemon2.head())
```

```
## Type.1 Type.2 Speed
## 0 Grass Poison 45
## 1 Grass Poison 60
## 2 Grass Poison 80
## 3 Grass Poison 80
## 4 Fire 65
```