Processing Strings in R

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Excercise

library(stringr)

The local zoo has made an inventory of its animal stock. However, the zoo keepers did a messy job with writing up totals as you can see below. You are hired to clean up the mess using R.

```
library(quanteda)
## Package version: 1.3.0
## Parallel computing: 2 of 4 threads used.
## See https://quanteda.io for tutorials and examples.
##
## Attaching package: 'quanteda'
## The following object is masked from 'package:utils':
##
       View
zoo <- c("bear x2", "Ostric7", "platypus x60", "x7 Eliphant", "x16 conDOR")
Use the functions in the stringr to clean up the string, taking out typos, etc. Generate an R dataframe
with the following variables: Species (character), Number (numeric).
zoo <- c("bear x2", "Ostric7", "platypus x60", "x7 Eliphant", "x16 conDOR")
zoo <- str to lower(zoo)</pre>
zoo <- str_replace(zoo, "x", "")</pre>
zoo[2] <- str_replace(zoo[2], "7", "h 7")</pre>
zoo[4] <- str_replace(zoo[4], "eliphant", "elephant")</pre>
animal <- str_extract(zoo, "[a-z]+")</pre>
str(animal)
## chr [1:5] "bear" "ostrich" "platypus" "elephant" "condor"
number <- str_extract(zoo, "\\d+")</pre>
str(number)
## chr [1:5] "2" "7" "60" "7" "16"
data <- data.frame(animal = as.character(animal), number = as.numeric(number), stringsAsFactors = FALSE</pre>
print(data)
##
       animal number
## 1
         bear
## 2 ostrich
                    7
## 3 platypus
                   60
## 4 elephant
                    7
## 5
       condor
                   16
```

 $^{^{1}}$ This exercise is based on an example from Automated Data Collection With R, by Munzert et al (2015).

```
str(data)
                   5 obs. of 2 variables:
## 'data.frame':
## $ animal: chr "bear" "ostrich" "platypus" "elephant" ...
## $ number: num 2 7 60 7 16
#make a plot
library(ggplot2)
ggplot(data, aes(animal, number)) +
  geom_col() + theme_minimal()
  60
  40
  20
             bear
                            condor
                                            elephant
                                                             ostrich
                                                                            platypus
                                            animal
```