## My first Web\_Scraping with R

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```
##
    2019-04-24
                KOSPI
#
library(tidyverse)
library(httr)
library(rvest)
library(readr)
# KOSPI
# https://finance.naver.com/sise/sise_index.nhn?code=KOSPI
# HTTP
res <- GET(url = 'https://finance.naver.com/sise/sise_index.nhn?code=KOSPI')
status\_code(x = res) ##[1] 200 :
## [1] 200
readr::guess_encoding(file="C:/Users/iihsk/Desktop/ds_web scraping/Sisa web scraping/
                                                                                              .html")
## # A tibble: 5 x 2
##
     encoding confidence
     <chr>>
                    <dbl>
## 1 EUC-KR
## 2 GB18030
                     0.62
## 3 EUC-JP
                     0.42
## 4 Big5
                     0.35
## 5 ISO-8859-1
                     0.290
\#cat(content(x = res, as = 'text', encoding = 'EUC-KR'))
\#print(x = res)
                locale
Sys.setlocale(category = 'LC_ALL', locale = 'C')
## [1] "C"
tableContents <- res %>%
  read_html(encoding='EUC-KR') %>%
 html_nodes(css = '#contentarea_left > div.box_top_sub > div > div.subtop_sise_detail > table') %>%
 html_table(trim = TRUE)
# print(x = tableContents)
# glimpse(x = tableContents)
```

```
dim(tableContents) # 4
## NULL
Sys.setlocale(category = 'LC_ALL', locale = 'korean')
## [1] "LC_COLLATE=Korean_Korea.949;LC_CTYPE=Korean_Korea.949;LC_MONETARY=Korean_Korea.949;LC_NUMERIC=C
glimpse(data)
## Observations: 4
## Variables: 4
## $ X1 <chr> " ( )", " ", "52 ", " / "
## $ X2 <chr> "564,866", "2,229.75", "2,516.57", " 3 \n\t
## $ X3 <chr> " ()", " ", "52 ", " 3 \n\t
## $ X4 <chr> "6,002,015", "2,190.29", "1,984.53", " 3 \n\t
# 1 : 1~2 3~4
                   . tidy data
part1 <- data[,1:2];part2 <- data[,3:4]</pre>
colnames(part1) <- c(" "," ");colnames(part2) <- c(" "," ") # rbind</pre>
data <- rbind(part1, part2) #</pre>
data <- data[-dim(data)[1],] #</pre>
  : data[,""] <- data$ %>% str_remove_all(pattern = '\n\t/')
print(data[4,2]) # \n
## [1] " 3 \n\t
                                                                          58 \n\t
                                         251 \n\t
x <- data[4,2] %>% str_split(pattern = '\n\t ') # pattern
print(x)
## [[1]]
## [1] " 3 "
## [2] "
                                251 "
## [3] "
                                58 "
## [4] "
                                584 "
## [5] "
data[4,2]에 저장돼 있는 지저분한 꼴을 4개 항목으로 따로 저장하려는 작업입니다.
               separate.data
separate.data <- c()</pre>
for(i in 1:length(x[[1]])){
 separate.data[i] <- x[[1]][i] %>% str_trim()
}
# 5 ' '
                content
content <- c()
for(i in 1:5){
  content[i] <- separate.data[i] %>% str_sub(start=1, end=5)
#'' value
```

```
value <- c()</pre>
for(i in 1:5){
  value[i] <- separate.data[i] %>% str_sub(start=6, end=nchar(separate.data[i]))
# ' ' ' '
partial.data <- cbind(content, value)</pre>
print(partial.data)
       content
                     value
## [1,] " "3"
## [2,] " "251"
## [3,] " "58"
## [4,] " "584"
## [5,] " "0"
data <- data[-4,]</pre>
colnames(partial.data) <- colnames(data)</pre>
data <- rbind(data, partial.data)</pre>
print(data)
##
## 1
        () 564,866
## 2
                2,229.75
## 3
          52
               2,516.57
## 5 () 6,002,015
                2,190.29
## 6
## 7
           52
               1,984.53
## 11
                     3
## 21
                   251
## 31
                    58
## 4
                   584
## 51
                     0
write.csv(data, "20190423 KOSPI.csv", row.names=FALSE)
```