Mini Profect 01 - IMDB web scraping

```
library(tidyverse)
library(rvest) #scrape data from internet
```

```
url <- "https://www.imdb.com/search/title/?groups=top_100&sort=user_rating,desc"</pre>
```

```
# read html
imdb <-
read_html(url)</pre>
```

```
# movie title
titles <- imdb %>%
  html_nodes("h3.lister-item-header") %>%
  html_text2() # test2 delete some
```

```
# rating
ratings <- imdb %>%
  html_nodes("div.ratings-imdb-rating") %>%
  html_text2()
```

```
# num of votes
num_votes <-
imdb %>%
    html_nodes("p.sort-num_votes-visible") %>%
    html_text2()
```

```
# build a dataset

df <-
data.frame(
    titel = titles,
    rating = ratings,
    num_vote = num_votes
)
head(df)</pre>
```

A data.frame: 6 × 3

	titel	rating	num_vote
	<chr></chr>	<chr></chr>	<chr></chr>
1	1. The Shawshank Redemption (1994)	9.3	Votes: 2,664,233 Gross: \$28.34M Top 250: #1
2	2. The Godfather (1972)	9.2	Votes: 1,846,286 Gross: \$134.97M Top 250: #2
3	3. The Dark Knight (2008)	9.0	Votes: 2,637,193 Gross: \$534.86M Top 250: #3
4	4. The Lord of the Rings: The Return of the King (2003)	9.0	Votes: 1,836,808 Gross: \$377.85M Top 250: #7
5	5. Schindler's List (1993)	9.0	Votes: 1,349,105 Gross: \$96.90M Top 250: #6
6	6. The Godfather Part II (1974)	9.0	Votes: 1,264,610 Gross: \$57.30M Top 250: #4

Mini Project 02 - Specphone web scraping

```
library(tidyverse)
library(rvest)
Warning message in system("timedatectl", intern = TRUE):
"running command 'timedatectl' had status 1"
Warning message:
"Failed to locate timezone database"
— Attaching packages -
                                                             - tidyverse 1.3.1

✓ ggplot2 3.3.5

                    ✓ purrr
                              0.3.4

√ tibble 3.1.5

                              1.0.7
                    ✓ dplyr

✓ tidyr

         1.1.4

✓ stringr 1.4.0
```

```
url2 <- "https://specphone.com/vivo-X90-Pro.html"
```

```
# read html
spec <-
read_html(url2)</pre>
```

```
att <-
spec %>%
   html_nodes("div.topic") %>%
   html_text2()
```

```
value <-
spec %>%
  html_nodes("div.detail") %>%
  html_text2()
```

```
# build a dataset
df2 <-
data.frame(
    attibute = att,
    value = value
)
head(df2)</pre>
```

A data.frame: 6 × 2

	attibute	value
	<chr></chr>	<chr></chr>
1	วันเปิดตัว	พฤศจิกายน 2565
2	วันวางจำหน่าย	ยังไม่วางจำหน่าย
3	ขนาด	164.10 x 74.50 x 9.30 มม.
4	น้ำหนัก	214 กรัม
5	วัสดุ	Glass front, glass back or eco leather back
6	SIM	รองรับ 2 ซิมการ์ด (nano sim, nano sim)

```
# All Samsung Smartphones
samsung_url <- read_html("https://specphone.com/brand/samsung")</pre>
```

```
# link to all samsung smartphone
links <-
samsung_url %>%
   html_nodes("li.mobile-brand-item a") %>%
   html_attr("href")
```

links

```
'/Samsung-Galaxy-M13.html' · '/Samsung-Galaxy-A23.html' · '/Samsung-Galaxy-A13.html' ·
'/Samsung-Galaxy-M32-5G.html' · '/Samsung-Galaxy-A12-Nacho.html' ·
'/Samsung-Galaxy-Pocket-Neo.html' · '/Samsung-Galaxy-Young.html' · '/Samsung-Galaxy-J1-Mini.html' ·
'/Samsung-Galaxy-A01-Core-1-16GB.html' · '/Samsung-Galaxy-V-PLUS.html' ·
'/Samsung-Galaxy-Young-2.html' · '/Samsung-Galaxy-M02.html' · '/Samsung-Galaxy-A11.html' ·
'/Samsung-Galaxy-J2-Pro-2018.html' · '/Samsung-Galaxy-A12-2021.html' ·
'/Samsung-Galaxy-A21s-3-32GB.html' · '/Samsung-Galaxy-J5.html' · '/Samsung-Galaxy-J4.html' ·
'/Samsung-Galaxy-Core-2-Duos.html' · '/Samsung-Galaxy-Ace-Plus.html' · '/Samsung-Galaxy-A20.html' ·
'/Samsung-Galaxy-Chat.html' · '/Samsung-Galaxy-Gio.html' · '/Samsung-Galaxy-Tab-A7-Lite-LTE.html' ·
'/Samsung-Galaxy-Tab-A-10.5WIFI.html' · '/Samsung-Galaxy-Alpha.html' · '/Samsung-Galaxy-S3-Slim.html' ·
'/Samsung-Galaxy-S4-zoom.html' · '/Samsung-Galaxy-Xcover-2.html' ·
'/Samsung-Galaxy-Tab-8.9-3G-16GB.html' · '/Samsung-Galaxy-Tab-A8-LTE-2021.html' ·
'/Samsung-Galaxy-A8-2018.html' · '/Samsung-Galaxy-Tab4-8.0-wifi.html' ·
'/Samsung-Galaxy-M33-5G.html' · '/Samsung-Galaxy-A50.html' · '/Samsung-Galaxy-E7.html' ·
'/Samsung-Galaxy-S6.html' · '/Samsung-Galaxy-S20-FE.html' · '/Samsung-Galaxy-Tab-S4-WIFI.html' ·
'/Samsung-Galaxy-S7.html' · '/Samsung-Galaxy-Note-5-Exynos.html' ·
'/Samsung-Galaxy-TabPRO-12.2-LTE.html' · '/Samsung-Galaxy-S4-Active.html' ·
'/Samsung-Galaxy-Tab-Active-3.html' · '/Samsung-Galaxy-Tab-S3-9.7.html' ·
\hbox{'/Samsung-Galaxy-S6-edge.html'} \cdot \hbox{'/Samsung-Galaxy-Note-4-Exynos.html'} \cdot \hbox{'/Samsung-Galaxy-Note-4-Exynos.h
'/Samsung-Galaxy-Round.html' · '/Samsung-Galaxy-Note-20-Ultra-5G.html' · '/Samsung-ATIV-Q.html' ·
'/Samsung-ATIV-Smart-PC-PRO.html' · '/Samsung-Galaxy-S22-Ultra12-128GB.html' ·
'/Samsung-Galaxy-Z-Flip-5G.html' · '/Samsung-Galaxy-Z-Flip.html' ·
'/Samsung-Galaxy-Tab-S8-Ultra-5G.html' · '/Samsung-Galaxy-S21-Ultra-16-512GB.html' ·
'/Samsung-Galaxy-S10-Plus-Ram-12GB.html' · '/Samsung-Galaxy-Z-Fold-3.html' ·
'/Samsung-Galaxy-Z-Fold4.html' · '/Samsung-Galaxy-Z-Fold-2-5G.html'
```

```
full_links <- paste0("https://specphone.com", links)</pre>
```

```
result <- bind_rows(result, tmp)
print("Progress ...")
}

[1] "Progress ..."
[1] "Progress ..."</pre>
```

```
[1] "Progress ..."
```

```
# print(result)
print(head(result))
```

```
attribute
                                                        value
      วันเปิดตัว
                                                มิถุนายน 2565
1
2 วันวางจำหน่าย
                                              ยังไม่วางจำหน่าย
3
                                 165.40 x 76.90 x 8.40 มม.
          ขนาด
         น้ำหนัก
4
                                                     192 กรัม
5
           วัสดุ Glass front, plastic back, plastic frame
6
           SIM
                     รองรับ 2 ซิมการ์ด (nano sim, nano sim)
```

```
# weite csv
write_csv(result, "result_ss_phone.csv")
```