

```
library(tidyverse)
library(rvest)
```

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

```
print(url)
#read html
```

```
[1] "https://www.imdb.com/search/title/?groups=top_100&sort=user_rating,desc"
```

```
imdb <- read_html(url)
```

```
imdb
```

```
{html_document}
<html xmlns:og="http://ogp.me/ns#" xmlns:fb="http://www.facebook.com/2008/fbml"
[1] <head>\n<meta http-equiv="Content-Type" content="text/html; charset=UTF-8 .
[2] <body id="styleguide-v2" class="fixed">\n          <img height="1" width .
```

```
titles <- imdb %>%
  html_nodes("h3.lister-item-header") %>%
  html_text2()
```

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

```
#build a dataset
df <- data.frame(
  title = titles,
  rating = ratings

)
head(df)
```

A data.frame: 6 × 2

	title	rating
	<chr>	<dbl>
1	1. The Shawshank Redemption (1994)	9.3
2	2. The Godfather (1972)	9.2
3	3. Schindler's List (1993)	9.0
4	4. The Dark Knight (2008)	9.0
5	5. 12 Angry Men (1957)	9.0
6	6. The Godfather Part II (1974)	9.0

## Mini Project 02 -Specphone Phone Database

```
library(tidyverse)
library(rvest)
```

```
url <- read_html("https://specphone.com/Samsung-Galaxy-A04.html")
```

```
att <- url %>%  
  html_nodes("div.topic")%>%  
  html_text2()  
  
value <- url %>%  
  html_nodes("div.detail")%>%  
  html_text2()
```

```
data.frame(attribute = att ,value = value)
```

A data.frame: 31 × 2

attribute	value
<chr>	<chr>
วันเปิดตัว	ตุลาคม 2565
วันวางจำหน่าย	ยังไม่วางจำหน่าย
ขนาด	164.40 x 76.30 x 9.10 มม.
น้ำหนัก	192 กรัม
วัสดุ	Glass front, plastic back, plastic frame
SIM	รองรับ 2 ซิมการ์ด (nano sim, nano sim)
Technology	HSPA 42.2/5.76 Mbps, LTE-A
2G	850/900/1800/1900
3G	850/900/1900/2100
4G	850/900/1900/2100/2600
5G	-
ความเร็ว	HSPA 42.2/5.76 Mbps, LTE-A
ประเภท	PLS LCD
ขนาดหน้าจอ	6.50 นิ้ว
ความละเอียด	720 x 1600 pixels
ระบบปฏิบัติการ	Android 12
ชิปประมวลผล	Spreadtrum Unisoc SC9863A 1.6 GHz
ชิปกราฟิก	PowerVR GE8322
หน่วยความจำ	3 GB
ความจุ	32 GB
Memory Card	microSD (1)
กล้องหลัก	ตัวที่ 1: 50 MP, f/1.8, (wide), AF ตัวที่ 2: 2 MP, f/2.4, (depth)
ความละเอียดวิดีโอ	1080p@30fps
กล้องหน้า	ตัวที่ 1: 5 MP, f/2.2
Bluetooth	5.0, A2DP, LE
Wi-Fi	802.11 a/b/g/n/ac, dual-b
USB	Type-C
GPS	GLONASS, GALILEO, BDS
NFC	ไม่รองรับ
ความจุ	5,000 mAh
ประเภท	Non-removable Li-Po Batt

```
#all samsung smartphone
samsung_url = read_html("https://specphone.com/brand/Samsung")
```

```
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' · '/Samsung-Galaxy-S6-edge.html' ·  
 '/Samsung-Galaxy-Note-4-Exynos.html' · '/Samsung-Galaxy-Round.html' ·  
 '/Samsung-Galaxy-Note-20-Ultra-5G.html' · '/Samsung-ATIV-Q.html' · '/Samsung-ATIV-Smart-PC-PRO.html' ·  
 '/Samsung-Galaxy-S23-Ultra-5G8-256GB.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-S23-Ultra-5G.html' ·  
 '/Samsung-Galaxy-S10-Plus-Ram-12GB.html' · '/Samsung-Galaxy-Z-Fold-3.html'
```

```
full_links <- paste0("https://specphone.come",links)
```

'https://specphone.come/Samsung-Galaxy-M13.html' · 'https://specphone.come/Samsung-Galaxy-A23.html' ·  
'https://specphone.come/Samsung-Galaxy-A13.html' · 'https://specphone.come/Samsung-Galaxy-M32-5G.html' ·  
'https://specphone.come/Samsung-Galaxy-A12-Nacho.html' ·  
'https://specphone.come/Samsung-Galaxy-Pocket-Neo.html' ·  
'https://specphone.come/Samsung-Galaxy-Young.html' · 'https://specphone.come/Samsung-Galaxy-J1-Mini.html' ·  
'https://specphone.come/Samsung-Galaxy-A01-Core-1-16GB.html' ·  
'https://specphone.come/Samsung-Galaxy-V-PLUS.html' ·  
'https://specphone.come/Samsung-Galaxy-Young-2.html' · 'https://specphone.come/Samsung-Galaxy-M02.html' ·  
'https://specphone.come/Samsung-Galaxy-A11.html' ·  
'https://specphone.come/Samsung-Galaxy-J2-Pro-2018.html' ·  
'https://specphone.come/Samsung-Galaxy-A12-2021.html' ·  
'https://specphone.come/Samsung-Galaxy-A21s-3-32GB.html' ·  
'https://specphone.come/Samsung-Galaxy-J5.html' · 'https://specphone.come/Samsung-Galaxy-J4.html' ·  
'https://specphone.come/Samsung-Galaxy-Core-2-Duos.html' ·  
'https://specphone.come/Samsung-Galaxy-Ace-Plus.html' · 'https://specphone.come/Samsung-Galaxy-A20.html' ·  
'https://specphone.come/Samsung-Galaxy-Chat.html' · 'https://specphone.come/Samsung-Galaxy-Gio.html' ·  
'https://specphone.come/Samsung-Galaxy-Tab-A7-Lite-LTE.html' ·  
'https://specphone.come/Samsung-Galaxy-Tab-A-10.5WIFI.html' ·  
'https://specphone.come/Samsung-Galaxy-Alpha.html' · 'https://specphone.come/Samsung-Galaxy-S3-Slim.html' ·  
'https://specphone.come/Samsung-Galaxy-S4-zoom.html' ·  
'https://specphone.come/Samsung-Galaxy-Xcover-2.html' ·  
'https://specphone.come/Samsung-Galaxy-Tab-8.9-3G-16GB.html' ·  
'https://specphone.come/Samsung-Galaxy-Tab-A8-LTE-2021.html' ·  
'https://specphone.come/Samsung-Galaxy-A8-2018.html' ·  
'https://specphone.come/Samsung-Galaxy-Tab4-8.0-wifi.html' ·  
'https://specphone.come/Samsung-Galaxy-M33-5G.html' · 'https://specphone.come/Samsung-Galaxy-A50.html' ·  
'https://specphone.come/Samsung-Galaxy-E7.html' · 'https://specphone.come/Samsung-Galaxy-S6.html' ·  
'https://specphone.come/Samsung-Galaxy-S20-FE.html' ·  
'https://specphone.come/Samsung-Galaxy-Tab-S4-WIFI.html' · 'https://specphone.come/Samsung-Galaxy-S7.html' ·  
'https://specphone.come/Samsung-Galaxy-Note-5-Exynos.html' ·  
'https://specphone.come/Samsung-Galaxy-TabPRO-12.2-LTE.html' ·  
'https://specphone.come/Samsung-Galaxy-S4-Active.html' ·  
'https://specphone.come/Samsung-Galaxy-Tab-Active-3.html' ·  
'https://specphone.come/Samsung-Galaxy-Tab-S3-9.7.html' ·  
'https://specphone.come/Samsung-Galaxy-S6-edge.html' ·  
'https://specphone.come/Samsung-Galaxy-Note-4-Exynos.html' ·  
'https://specphone.come/Samsung-Galaxy-Round.html' ·  
'https://specphone.come/Samsung-Galaxy-Note-20-Ultra-5G.html' ·  
'https://specphone.come/Samsung-ATIV-Q.html' · 'https://specphone.come/Samsung-ATIV-Smart-PC-PRO.html' ·  
'https://specphone.come/Samsung-Galaxy-S23-Ultra-5G8-256GB.html' ·  
'https://specphone.come/Samsung-Galaxy-S22-Ultra12-128GB.html' ·  
'https://specphone.come/Samsung-Galaxy-Z-Flip-5G.html' ·  
'https://specphone.come/Samsung-Galaxy-Z-Flip.html' ·  
'https://specphone.come/Samsung-Galaxy-Tab-S8-Ultra-5G.html' ·  
'https://specphone.come/Samsung-Galaxy-S21-Ultra-16-512GB.html' ·  
'https://specphone.come/Samsung-Galaxy-S23-Ultra-5G.html' ·  
'https://specphone.come/Samsung-Galaxy-S10-Plus-Ram-12GB.html' ·  
'https://specphone.come/Samsung-Galaxy-Z-Fold-3.html'

```
for (link in full_links[1:10]){  
  ss_topic <- %>%  
  html_nodes("div.topic")%>%  
  html_text2()  
}
```