

Lab Exercise 1

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```
library(dplyr)

##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##   filter, lag
## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union

library(rvest)
library(polite)
library(httr)
library(selectr)
library(xml2)

## 1st product tshirt

product = data.frame()

url<-"https://www.amazon.com.be/s?k=tshirt+men&crid=2GH9JI5MZELHZ&srefix=tshi%2Caps%2C277&ref=nb_sb_ss_
url2<-"https://www.amazon.com.be/-/en/s?k=tshirt+men&page=2&crid=2GH9JI5MZELHZ&qid=1707956978&srefix=t

#url 1

session<-bow(url,user_agent = "For Educational purposes only")
session

## <polite session> https://www.amazon.com.be/s?k=tshirt+men&crid=2GH9JI5MZELHZ&srefix=tshi%2Caps%2C277
##   User-agent: For Educational purposes only
##   robots.txt: 104 rules are defined for 4 bots
##   Crawl delay: 5 sec
##   The path is scrapable for this user-agent

scrapeNodes <- function(selector){
  scrape(session) %>%
    html_nodes(selector) %>%
    html_text(trim = TRUE)
}
```

```

productName <- scrapeNodes("h2.a-size-mini.a-spacing-none.a-color-base.s-line-clamp-2")
productName <- productName[1:31]

productPrice <- scrapeNodes("span.a-price")
productPrice <-productPrice[1:31]

productRatings <- scrapeNodes("i.a-icon.a-icon-star-small.a-star-small-4-5.aok-align-bottom")
productRatings <-productRatings[1:31]

productTNRV <- scrapeNodes("span.a-size-base.s-underline-text")
productTNRV <- productTNRV[1:31]

  product <- rbind(product, data.frame(Product_Name = productName,
                                     Price = productPrice,
                                     Ratings = productRatings,
                                     Total_Number_of_Reviews = productTNRV))

#url 2

product2 = data.frame()

session2<-bow(url2,user_agent ="For Educational purposes only")
session2

## <polite session> https://www.amazon.com.be/-/en/s?k=tshirt+men&page=2&crid=2GH9JI5MZELHZ&qid=1707956
##   User-agent: For Educational purposes only
##   robots.txt: 104 rules are defined for 4 bots
##   Crawl delay: 5 sec
##   The path is scrapable for this user-agent

scrapeNodes <- function(selector){
  scrape(session2) %>%
    html_nodes(selector) %>%
    html_text(trim = TRUE)
}

productName2 <- scrapeNodes("h2.a-size-mini.a-spacing-none.a-color-base.s-line-clamp-2")
productName2 <- productName2[1:26]

productPrice2 <- scrapeNodes("span.a-price")
productPrice2 <-productPrice2[1:26]

productRatings2 <- scrapeNodes("i.a-icon.a-icon-star-small.a-star-small-4-5.aok-align-bottom")
productRatings2 <-productRatings2[1:26]

productTNRV2 <- scrapeNodes("span.a-size-base.s-underline-text")
productTNRV2 <- productTNRV2[1:26]

  product2 <- rbind(product2, data.frame(Product_Name = productName2,
                                     Price = productPrice2,
                                     Ratings = productRatings2,
                                     Total_Number_of_Reviews = productTNRV2))

#url 3

```

```
url3<-"https://www.amazon.com.be/-/en/s?k=tshirt+men&page=3&crd=2GH9JI5MZELHZ&qid=1707957314&sprefix=t
```

```
product3 = data.frame()
```

```
session3<-bow(url3,user_agent ="For Educational purposes only")
session3
```

```
## <polite session> https://www.amazon.com.be/-/en/s?k=tshirt+men&page=3&crd=2GH9JI5MZELHZ&qid=1707957314
##   User-agent: For Educational purposes only
##   robots.txt: 104 rules are defined for 4 bots
##   Crawl delay: 5 sec
##   The path is scrapable for this user-agent
```

```
scrapeNodes <- function(selector){
  scrape(session3) %>%
    html_nodes(selector) %>%
    html_text(trim = TRUE)
}
```

```
productName3 <- scrapeNodes("h2.a-size-mini.a-spacing-none.a-color-base.s-line-clamp-2")
productName3 <- productName3[1:18]
```

```
productPrice3 <- scrapeNodes("span.a-price")
productPrice3 <-productPrice3[1:18]
```

```
productRatings3 <- scrapeNodes("i.a-icon.a-icon-star-small.a-star-small-4-5.aok-align-bottom")
productRatings3 <-productRatings3[1:18]
```

```
productTNRV3 <- scrapeNodes("span.a-size-base.s-underline-text")
productTNRV3 <- productTNRV3[1:18]
```

```
product3 <- rbind(product3, data.frame(Product_Name = productName3,
                                       Price = productPrice3,
                                       Ratings = productRatings3,
                                       Total_Number_of_Reviews = productTNRV3))
```

```
#url 4
```

```
url4<-"https://www.amazon.com.be/-/en/s?k=tshirt+men&page=4&crd=1GGHABKSR7J7M&qid=1707963509&sprefix=%
```

```
product4 = data.frame()
```

```
session4<-bow(url4,user_agent ="For Educational purposes only")
session4
```

```
## <polite session> https://www.amazon.com.be/-/en/s?k=tshirt+men&page=4&crd=1GGHABKSR7J7M&qid=1707963509
##   User-agent: For Educational purposes only
##   robots.txt: 104 rules are defined for 4 bots
##   Crawl delay: 5 sec
##   The path is scrapable for this user-agent
```

```
scrapeNodes <- function(selector){
  scrape(session4) %>%
    html_nodes(selector) %>%
    html_text(trim = TRUE)
}
```

```

}

productName4 <- scrapeNodes("h2.a-size-mini.a-spacing-none.a-color-base.s-line-clamp-2")
productName4 <- productName4[1:15]

productPrice4 <- scrapeNodes("span.a-price")
productPrice4 <- productPrice4[1:15]

productRatings4 <- scrapeNodes("i.a-icon.a-icon-star-small.a-star-small-4-5.aok-align-bottom")
productRatings4 <- productRatings4[1:15]

productTNRV4 <- scrapeNodes("span.a-size-base.s-underline-text")
productTNRV4 <- productTNRV4[1:15]

product4 <- rbind(product4, data.frame(Product_Name = productName4,
                                     Price = productPrice4,
                                     Ratings = productRatings4,
                                     Total_Number_of_Reviews = productTNRV4))

#url 5

url5<-"https://www.amazon.com.be/-/en/s?k=tshirt+men&page=6&crd=1GGHABKSR7J7M&qid=1707964011&sprefix=%"

product6 = data.frame()

session6<-bow(url5,user_agent = "For Educational purposes only")
session6

## <polite session> https://www.amazon.com.be/-/en/s?k=tshirt+men&page=6&crd=1GGHABKSR7J7M&qid=1707964
##   User-agent: For Educational purposes only
##   robots.txt: 104 rules are defined for 4 bots
##   Crawl delay: 5 sec
##   The path is scrapable for this user-agent

scrapeNodes <- function(selector){
  scrape(session6) %>%
    html_nodes(selector) %>%
    html_text(trim = TRUE)
}

productName6 <- scrapeNodes("h2.a-size-mini.a-spacing-none.a-color-base.s-line-clamp-2")
productName6 <- productName6[1:10]

productPrice6 <- scrapeNodes("span.a-price")
productPrice6 <- productPrice6[1:10]

productRatings6 <- scrapeNodes("i.a-icon.a-icon-star-small.a-star-small-4-5.aok-align-bottom")
productRatings6 <- productRatings6[1:10]

productTNRV6 <- scrapeNodes("span.a-size-base.s-underline-text")
productTNRV6 <- productTNRV6[1:10]

product6 <- rbind(product6, data.frame(Product_Name = productName6,
                                     Price = productPrice6,
                                     Ratings = productRatings6,

```

```

Total_Number_of_Reviews = productTNRV6))

finalproducts <-rbind(product, product2, product3, product4, product6)
finalproducts

```

##	
## 1	Lot de 3 Tee Shirts Homme - 60% Coton 40%
## 2	Lot de 3 t-shirts
## 3	
## 4	Lot de 3 Débardeurs Homme - s
## 5	
## 6	
## 7	
## 8	
## 9	
## 10	
## 11	Slim Fit Henley shirt,Coton Musclé t-sh
## 12	
## 13	
## 14	
## 15	
## 16	
## 17	
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## 19	
## 20	
## 21	Lot de 2 Tee Shirts Homme - 100% Polye
## 22	
## 23	
## 24	Lot de 4 Tee Shirts Homme - 60% Coton 40% Polyester - Manches Courtes - Col R
## 25	
## 26	
## 27	
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## 30	
## 31	
## 32	Men's Q
## 33	T-shirts à manches long
## 34	T-shirts à manches longu
## 35	
## 36	
## 37	
## 38	
## 39	
## 40	Men's Short Sleeve Shirt Capybara Graphi
## 41	Set of 4 Men's T-Shirts - 60% Cotton 4
## 42	Générique Metallica Master of Puppets
## 43	
## 44	Men's L
## 45	Men's Intimate

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T-Shirts Masculin
T-shirts à manches long

Men's Qu
T-shirts à manches long
T-shirts à manches longu

Men's Guns N' Roses Bour

Men's Qu
T-shirts à manches long
T-shirts à manches longu

Set o
Men's Qu
T-shirts à manches long
T-shirts à manches longu

O.

## 100 Disney The Nightmare Before Christmas Jack Current Mood T-Shirt for Men Official Product S-X									
##		Price		Ratings		Total_Number_of_Reviews			
## 1	39,95	€39,95€	4,3	étoile(s)	sur 5		Chercher plutôt		
## 2	29,95	€29,95€	4,3	étoile(s)	sur 5		tshirt men		
## 3	29,95	€29,95€	4,5	étoile(s)	sur 5			25	
## 4	29,95	€29,95€	4,5	étoile(s)	sur 5			695	
## 5	12,90	€12,90€	4,5	étoile(s)	sur 5			77	
## 6	16,92	€16,92€	4,5	étoile(s)	sur 5			9	
## 7	17,49	€17,49€	4,5	étoile(s)	sur 5			43 060	
## 8	18,20	€18,20€	4,4	étoile(s)	sur 5			36 963	
## 9	22,18	€22,18€	4,5	étoile(s)	sur 5	Une autre façon d'acheter			
## 10	22,92	€22,92€	4,6	étoile(s)	sur 5			129	
## 11	39,41	€39,41€	4,4	étoile(s)	sur 5			2 144	
## 12	29,95	€29,95€	4,6	étoile(s)	sur 5			5 528	
## 13	52,95	€52,95€	4,5	étoile(s)	sur 5			22 565	
## 14	20,12	€20,12€	4,4	étoile(s)	sur 5			49	
## 15	25,00	€25,00€	4,5	étoile(s)	sur 5			22 968	
## 16	23,99	€23,99€	4,4	étoile(s)	sur 5			6	
## 17	45,82	€45,82€	4,4	étoile(s)	sur 5			30 645	
## 18	17,99	€17,99€	4,3	étoile(s)	sur 5			48	
## 19	19,25	€19,25€	4,4	étoile(s)	sur 5			6 737	
## 20	30,00	€30,00€	4,5	étoile(s)	sur 5			95	
## 21	19,90	€19,90€	4,3	étoile(s)	sur 5			757	
## 22	20,95	€20,95€	4,4	étoile(s)	sur 5			150	
## 23	35,00	€35,00€	4,4	étoile(s)	sur 5			2 159	
## 24	18,90	€18,90€	4,4	étoile(s)	sur 5			7	
## 25	24,99	€24,99€	4,3	étoile(s)	sur 5			35	
## 26	21,48	€21,48€	4,5	étoile(s)	sur 5			53	
## 27	24,99	€24,99€	4,5	étoile(s)	sur 5			43	
## 28	24,95	€24,95€	4,6	étoile(s)	sur 5			4 004	
## 29	12,55	€12,55€	4,5	étoile(s)	sur 5			399	
## 30	19,95	€19,95€	4,5	étoile(s)	sur 5			77	
## 31	29,95	€29,95€	4,3	étoile(s)	sur 5			17 789	
## 32	€27.98	€27.98	4.3	out of 5 stars				293	
## 33	€42.13	€42.13	4.6	out of 5 stars				612	
## 34	€30.43	€30.43	4.3	out of 5 stars				122	
## 35	€25.74	€25.74	4.5	out of 5 stars				14,121	
## 36	€18.69	€18.69	4.3	out of 5 stars				39	
## 37	€25.30	€25.30	4.3	out of 5 stars				26	
## 38	€11.88	€11.88	4.6	out of 5 stars				757	
## 39	€10.07	€10.07	4.4	out of 5 stars				99	
## 40	€19.90	€19.90	4.4	out of 5 stars				912	
## 41	€44.95	€44.95	4.4	out of 5 stars				119	
## 42	€23.98	€23.98	4.6	out of 5 stars				9,279	
## 43	€21.48	€21.48	4.3	out of 5 stars				1,140	
## 44	€24.99	€24.99	4.4	out of 5 stars				13,755	
## 45	€24.15	€24.15	4.6	out of 5 stars		Another way to buy			
## 46	€36.19	€36.19	4.4	out of 5 stars				628	
## 47	€18.81	€18.81	4.6	out of 5 stars				1,741	
## 48	€25.20	€25.20	4.5	out of 5 stars				3,749	
## 49	€21.11	€21.11	4.6	out of 5 stars				1,233	
## 50	€28.85	€28.85	4.4	out of 5 stars				55	
## 51	€40.00	€40.00	4.4	out of 5 stars				2	
## 52	€17.13	€17.13	4.3	out of 5 stars				165	

## 53	€24.99	€24.99	4.7 out of 5 stars	500
## 54	€18.27	€18.27	4.4 out of 5 stars	7
## 55	€19.49	€19.49	4.4 out of 5 stars	1,857
## 56	€24.57	€24.57	4.4 out of 5 stars	Another way to buy
## 57	€25.74	€25.74	4.5 out of 5 stars	77
## 58	€27.98	€27.98	4.3 out of 5 stars	293
## 59	€42.13	€42.13	4.6 out of 5 stars	186
## 60	€30.43	€30.43	4.4 out of 5 stars	2,575
## 61	€25.74	€25.74	4.4 out of 5 stars	242
## 62	€8.99	€8.99	4.5 out of 5 stars	1
## 63	€22.90	€22.90	4.5 out of 5 stars	823
## 64	€17.82	€17.82	4.4 out of 5 stars	2
## 65	€21.30	€21.30	4.4 out of 5 stars	24
## 66	€21.77	€21.77	4.6 out of 5 stars	6
## 67	€13.49	€13.49	4.5 out of 5 stars	7,697
## 68	€18.74	€18.74	4.7 out of 5 stars	144
## 69	€21.10	€21.10	4.6 out of 5 stars	130
## 70	€21.80	€21.80	4.6 out of 5 stars	13,217
## 71	€18.48	€18.48	4.3 out of 5 stars	10,748
## 72	€21.76	€21.76	4.3 out of 5 stars	1,136
## 73	€16.00	€16.00	4.6 out of 5 stars	1
## 74	€29.99	€29.99	4.5 out of 5 stars	1
## 75	€34.95	€34.95	4.5 out of 5 stars	61
## 76	€27.98	€27.98	4.3 out of 5 stars	293
## 77	€42.13	€42.13	4.4 out of 5 stars	20
## 78	€30.43	€30.43	4.5 out of 5 stars	70
## 79	€25.74	€25.74	4.4 out of 5 stars	4,075
## 80	€23.45	€23.45	4.3 out of 5 stars	14,270
## 81	€56.93	€56.93	4.5 out of 5 stars	3,747
## 82	€18.72	€18.72	4.4 out of 5 stars	868
## 83	€32.22	€32.22	4.3 out of 5 stars	2
## 84	€24.84	€24.84	4.5 out of 5 stars	6
## 85	€43.68	€43.68	4.4 out of 5 stars	48
## 86	€24.23	€24.23	4.6 out of 5 stars	293
## 87	€14.56	€14.56	4.6 out of 5 stars	2
## 88	€17.14	€17.14	4.4 out of 5 stars	1,416
## 89	€20.00	€20.00	4.5 out of 5 stars	2,144
## 90	€34.95	€34.95	4.6 out of 5 stars	1
## 91	€27.98	€27.98	4.3 out of 5 stars	293
## 92	€42.13	€42.13	4.4 out of 5 stars	31
## 93	€30.43	€30.43	4.5 out of 5 stars	1,033
## 94	€25.74	€25.74	4.5 out of 5 stars	2,706
## 95	€31.15	€31.15	4.6 out of 5 stars	3
## 96	€19.95	€19.95	4.4 out of 5 stars	1,327
## 97	€34.79	€34.79	4.4 out of 5 stars	1
## 98	€18.25	€18.25	4.6 out of 5 stars	27
## 99	€23.40	€23.40	4.6 out of 5 stars	111
## 100	€19.95	€19.95	4.6 out of 5 stars	14

#2nd Product Phones

```
library(dplyr)
library(rvest)
library(polite)
library(httr)
```



```

library(selectr)
library(xml2)

#link 1
urlp<-"https://www.amazon.com.be/s?k=phones&crd=2TJEA216QCAPX&sprefix=phon%2Caps%2C435&ref=nb_sb_noss"

productp = data.frame()

sessionp<-bow(urlp,user_agent ="For Educational purposes only")
sessionp

## <polite session> https://www.amazon.com.be/s?k=phones&crd=2TJEA216QCAPX&sprefix=phon%2Caps%2C435&ref=nb_sb_noss
## User-agent: For Educational purposes only
## robots.txt: 104 rules are defined for 4 bots
## Crawl delay: 5 sec
## The path is scrapable for this user-agent

scrapeNodes <- function(selector){
  scrape(sessionp) %>%
    html_nodes(selector) %>%
    html_text(trim = TRUE)
}

productNamep <- scrapeNodes("h2.a-size-mini.a-spacing-none.a-color-base.s-line-clamp-4")
productNamep <- productNamep[1:25]

productPricep <- scrapeNodes("span.a-price")
productPricep <- productPricep[1:25]

productRatingp <- scrapeNodes("i.a-icon.a-icon-star-small.a-star-small-4-5.aok-align-bottom")
productRatingp <- productRatingp[1:25]

productTNRVp <- scrapeNodes("span.a-size-base.s-underline-text")
productTNRVp <- productTNRVp[1:25]

productp <- rbind(productp, data.frame(Product_Name = productNamep,
                                         Price = productPricep,
                                         Ratings = productRatingp,
                                         Total_Number_of_Reviews = productTNRVp))

#link 2

urlp2<-"https://www.amazon.com.be/-/en/s?k=phones&page=2&crd=2TJEA216QCAPX&qid=1708165997&sprefix=phon"

productp2 = data.frame()

sessionp2<-bow(urlp2,user_agent ="For Educational purposes only")
sessionp2

## <polite session> https://www.amazon.com.be/-/en/s?k=phones&page=2&crd=2TJEA216QCAPX&qid=1708165997&sprefix=phon
## User-agent: For Educational purposes only

```

```

##      robots.txt: 104 rules are defined for 4 bots
##      Crawl delay: 5 sec
##      The path is scrapable for this user-agent

scrapeNodes <- function(selector){
  scrape(sessionp2) %>%
    html_nodes(selector) %>%
    html_text(trim = TRUE)
}

productName2 <- scrapeNodes("h2.a-size-mini.a-spacing-none.a-color-base.s-line-clamp-4")
productName2 <- productName2[1:27]

productPrice2 <- scrapeNodes("span.a-price")
productPrice2 <- productPrice2[1:27]

productRatingp2 <- scrapeNodes("i.a-icon.a-icon-star-small.a-star-small-4-5.aok-align-bottom")
productRatingp2 <- productRatingp2[1:27]

productTNRVp2 <- scrapeNodes("span.a-size-base.s-underline-text")
productTNRVp2 <- productTNRVp2[1:27]

  productp2 <- rbind(productp2, data.frame(Product_Name = productName2,
    Price = productPrice2,
    Ratings = productRatingp2,
    Total_Number_of_Reviews = productTNRVp2))

#link 3

urlp3<-"https://www.amazon.com.be/-/en/s?k=phones&page=3&crd=2TJEA216QCAPX&qid=1708167598&srefix=phon"

productp3 = data.frame()

sessionp3<-bow(urlp3,user_agent = "For Educational purposes only")
sessionp3

## <polite session> https://www.amazon.com.be/-/en/s?k=phones&page=3&crd=2TJEA216QCAPX&qid=1708167598&
##      User-agent: For Educational purposes only
##      robots.txt: 104 rules are defined for 4 bots
##      Crawl delay: 5 sec
##      The path is scrapable for this user-agent

scrapeNodes <- function(selector){
  scrape(sessionp3) %>%
    html_nodes(selector) %>%
    html_text(trim = TRUE)
}

productName3 <- scrapeNodes("h2.a-size-mini.a-spacing-none.a-color-base.s-line-clamp-4")
productName3 <- productName3[1:58]

productPrice3 <- scrapeNodes("span.a-price")
productPrice3 <- productPrice3[1:58]

```

```

productRatingp3 <- scrapeNodes("i.a-icon.a-icon-star-small.a-star-small-4-5.aok-align-bottom")
productRatingp3 <-productRatingp3[1:58]

productTNRVp3 <- scrapeNodes("span.a-size-base.s-underline-text")
productTNRVp3 <- productTNRVp3[1:58]

productp3 <- rbind(productp3, data.frame(Product_Name = productNamep3,
Price = productPricep3,
Ratings = productRatingp3,
Total_Number_of_Reviews = productTNRVp3))

finalproducts2 <-rbind(productp, productp2, productp3)
finalproducts2

```

```

##
## 1 ARZOPA Portable Monitor, S1 Table 15.6'' 1080P FHD Laptop M
## 2 NEW'C Lot de 3, Verre Trempé pour iPhone 14, 13, 13 Pro (6,1"), Film Protection
## 3 Lot de 2 chargeurs rapides pour Samsung 25 W USB C Chargeur pour Phone 12 Pro Max 11
## 4 Dexnor Coque intégrale pour iPhone 11 6,1" 360°
## 5 McMgc i15Pro Max Téléphone Portable Débloqué, 6,3 Pouces Waterdrop Android 9.0
## 6 Zawaer Babyphone Caméra, Moniteur Vidéo pour Bébé Babyphone, Babyphone Sans fil, Babyph
## 7 Samsung Galaxy A14 - Smartphone Android, écran
## 8
## 9 Nothing Phone (2) - 256 Go + 12 Go Ram, Glyph Interface, Nothing OS 2.0, Dor
## 10
## 11
## 12
## 13 Xiaomi Poco C65 Smartphone 8 + 256 Go No Contract Cell Phone 6,74" É
## 14
## 15
## 16
## 17 Samsung Galaxy A23 5G, Smartphone Android 12, écran Infinity-V 6,6"¹, 4 G
## 18
## 19 NeoMan Reno4 Smartphone, écran 5.5", 1 Go A
## 20
## 21
## 22 Kziwii 3 pièces Verre trempé Compatible avec ASUS ROG Phone 2
## 23 smartect Verre Trempé [3 Pièces, Clear] pour Telekom T Phone 5G, Protec
## 24 Avantree CK11 Kit mains libres Bluetooth 5.0 pour voiture, haut-parleur de qualité, support S
## 25 Motorola Moto G54 G5 Smartphone (écran FHD+ 6,5", double caméra de 50 MP, 8/256 Go, 5000 m
## 26 NEW'C Pack of 3 Tempered Glass Screen Protector for iPhone 14, 13, 13 Pro (6.1 In
## 27 2 Pack Fast Charger for Samsung 25W USB C Charger for Phone
## 28 Dexnor iPhone 11 Case 6.1 inch Full Body 360 Degree Heavy
## 29
## 30 artfone 4G Senior Cell Phone, 4G Big
## 31 Nokia 3310 2G M
## 32 Ulefone ARMOR 21 Android 13 Unbreakable Smartphone Infinite Halo, 122dB Speaker, 9600mAh M
## 33 Z
## 34 Samsung Galaxy A23 5G Mobile Phone Android
## 35
## 36
## 37
## 38 Doro - 68

```

```

## 39      Xiaomi Redmi 9A Smartphone 2GB RAM 32GB ROM Mobile Phone, 6.53 Inch HD Screen M
## 40                                             The Phone B
## 41                                             USHINING GSM Cell
## 42      Ulefone Armor 22 Unbreakable Smartphone, 64MP+64MP Camera (Night Vision), 16GB+256GB, 66
## 43      TOKVIA T221 Mobile Phone for People SOS Button Button,Mobile Phones for the M
## 44
## 45                                             Doro 6040
## 46      Kziwii 3-Piece Tempered Glass Screen Protector Film Compatibl
## 47      smartect Tempered Glass [3 Pieces, Clear] for Telekom T Phone 5G, H
## 48      Avantree CK11 Bluetooth 5.0 Handsfree Car Kit Q
## 49      deleyCON CTIA 4 Pin TRRS Microphone Extension
## 50                                             GSM Ser
## 51      I14 Pro Max Smartphone for Android
## 52
## 53      NEW'C Pack of 3 Tempered Glass Screen Protector for iPhone 14, 13, 13 Pro (6.1 In
## 54      2 Pack Fast Charger for Samsung 25W USB C Charger for Phone
## 55      Dexnor iPhone 11 Case 6.1 inch Full Body 360 Degree Heavy
## 56
## 57      Blackview BV8900 Unbreakable Portable Smartphone 2023, 16GB+256GB Android 13 Unlocked Phone 4G
## 58      JOYIN Jouet pour bébé de 6 à 12 mois - Téléphone portable avec 4 modes de jeu et plus de 50
## 59                                             Mini Phone 1.5 Inch 3G GSM Cell
## 60                                             Cheap SIM Free Unlocked Cell Phone
## 61
## 62      Oqtiq Car Phone Holder, Car Phone Holder with Suction Cup, Telefoonhouder Auto, 3 in 1 Car
## 63
## 64
## 65
## 66      DOOGEE S110 (2023), Helio G99 22GB + 256GB, Batteria 10800mAh / 66W, Rugged 4G Unl
## 67      Blackview BV6200 Pro Heavy Duty Phone, 13000mAh Battery, 8GB + 128GB (1T Extension),
## 68
## 69      Samsung Galaxy A14 Android Smartphone, 6.6 In
## 70      Doro 6880 - 4G S
## 71      SOYES S23 Pro Mini Smartphone 3.0 Inch Gl
## 72      USHINING GSM Unlocked Senior Cell Phone, Senior Cl
## 73      Kziwii 3-Piece Tempered Glass Screen Protector Film Compatibl
## 74      smartect Tempered Glass [3 Pieces, Clear] for Telekom T Phone 5G, H
## 75      Avantree CK11 Bluetooth 5.0 Handsfree Car Kit Q
## 76      deleyCON CTIA 4 Pin TRRS Microphone Extension
## 77      Ulefone 3G Unlocked Mobile Phone Note 6, 8.5 mm Ultra Thin Dual SIM Smar
## 78      Ulefone Power Armor 18T Ultra Outdoor Mobile Phone 5G Smartphone 2023, Dimens
## 79      Ulefone Armor 24 GB 256 GB Outdoor Smartphone Android 13 No Con
## 80      OUKITEL WP33 Pro Unbreakable Android 13 Mobile Phone, 2200mAh, 24GB+256GB Unbreakable Sm
## 81      Tytlyworth Car Temporary Parking
## 82
## 83
## 84
## 85      Doro 2404 - 2G S
## 86      UMIDIGI A13 Pro Max 5G Mobile Phone, 12GB RAM/256GB ROM Smartphone, Screen 6.8 Inch HD+ 5G WIFI
## 87
## 88      Redmi 13 (Midnight Black 8GB RAM, 256 Storage) - 6.7-inch 90Hz Disp
## 89      Babymoov Y00 Moov Motorised Video Babyphone, 360° Camera, Large 4.3
## 90      HNOOM Mobile Phone Bag Women Wallet PU Lea
## 91      Unlocked Mobile Phone, 6.1 Inch
## 92

```

## 93									
## 94				Ulefone Android 13 Phone Note 16 Pro, Up to 16GB RAM+128GB ROM, 8MP+50MP, Dual SIM					
## 95									
## 96								Super Small Mini Smartphone 3G Dual	
## 97									
## 98				Blackview BV6200 Android 13 Unbreakable Mobile Phone, 13000mAh Battery/18W, 8GB+64GB ROM/TF-					
## 99				FOSSIBOT 10600 mAh Unbreakable Smartphone Battery F101, Speaker 3.5W Max, 24MP Camera					
## 100				Blackview Mobile Phone 4G, A55 (2022) Smartphone Cheap Android 11 (Screen 6.52" HD+					
## 101								I14pro Max Smartphone Android Smartphone U	
## 102								Nokia Vodafone 3310	
## 103				BACKBONE One Mobile Gaming Controller for Android and Plus iPhone 15 Series (I					
## 104									
## 105				Ushining G181 Mobile Phone for Elderly with Large Buttons, High Volume, SOS Fun					
## 106				HONOR X6 Mobile Phone, Smartphone Battery 5000 mAh, Triple Camera					
## 107									
## 108				OUKITEL C33 Android 13 Mobile Phone, Cheap Smartphone 15GB+256GB (2TB Expansion), 6.8 inch HD+ S					
## 109								TESSAN 6 in 1 Multi-Socket Electric Wall Socket	
## 110								TESSAN Multi USB Socket, 3 Sockets and 2 USB Ports	
##		Price		Ratings	Total_Number_of_Reviews				
## 1	169,99	€169,99€	4,4 étoile(s)	sur 5	293				
## 2	6,95	€6,95€	4,5 étoile(s)	sur 5	20				
## 3	2,32	€2,32€	4,4 étoile(s)	sur 5	70				
## 4	19,98	€19,98€	4,3 étoile(s)	sur 5	4,075				
## 5	22,99	€22,99€	4,3 étoile(s)	sur 5	14,270				
## 6	68,63	€68,63€	4,3 étoile(s)	sur 5	3,747				
## 7	73,33	€73,33€	4,6 étoile(s)	sur 5	868				
## 8	39,99	€39,99€	4,6 étoile(s)	sur 5	2				
## 9	46,99	€46,99€	4,5 étoile(s)	sur 5	6				
## 10	138,00	€138,00€	4,6 étoile(s)	sur 5	48				
## 11	159,00	€159,00€	4,4 étoile(s)	sur 5	293				
## 12	579,00	€579,00€	4,3 étoile(s)	sur 5	2				
## 13	699,00	€699,00€	4,4 étoile(s)	sur 5	1,416				
## 14	329,00	€329,00€	4,3 étoile(s)	sur 5	2,144				
## 15	837,00	€837,00€	4,4 étoile(s)	sur 5	1				
## 16	969,00	€969,00€	4,5 étoile(s)	sur 5	<NA>				
## 17	27,80	€27,80€	4,4 étoile(s)	sur 5	<NA>				
## 18	143,46	€143,46€	4,6 étoile(s)	sur 5	<NA>				
## 19	149,00	€149,00€	4,5 étoile(s)	sur 5	<NA>				
## 20	155,00	€155,00€	4,5 étoile(s)	sur 5	<NA>				
## 21	158,99	€158,99€	4,3 étoile(s)	sur 5	<NA>				
## 22	90,08	€90,08€	4,4 étoile(s)	sur 5	<NA>				
## 23	93,68	€93,68€	4,5 étoile(s)	sur 5	<NA>				
## 24	224,00	€224,00€	4,4 étoile(s)	sur 5	<NA>				
## 25	235,00	€235,00€	4,5 étoile(s)	sur 5	<NA>				
## 26	€6.95€6.95		4.5 out of 5 stars		33,797				
## 27	€2.32€2.32		4.4 out of 5 stars		110				
## 28	€19.98€19.98		4.3 out of 5 stars		883				
## 29	€22.99€22.99		4.5 out of 5 stars		1				
## 30	€29.90€29.90		4.4 out of 5 stars		2,994				
## 31	€45.00€45.00		4.4 out of 5 stars		79				
## 32	€61.80€61.80		4.4 out of 5 stars		8				
## 33	€64.80€64.80		4.4 out of 5 stars		2,441				
## 34	€329.99€329.99		4.5 out of 5 stars		15				
## 35	€99.99€99.99		4.3 out of 5 stars		768				

## 36	€232.70€232.70	4.3 out of 5 stars	166
## 37	€59.00€59.00	4.4 out of 5 stars	126
## 38	€112.00€112.00	4.4 out of 5 stars	566
## 39	€119.00€119.00	4.4 out of 5 stars	561
## 40	€209.00€209.00	4.3 out of 5 stars	999
## 41	€99.99€99.99	4.5 out of 5 stars	26
## 42	€61.90€61.90	4.3 out of 5 stars	538
## 43	€8.99€8.99	4.6 out of 5 stars	436
## 44	€13.95€13.95	4.6 out of 5 stars	783
## 45	€31.11€31.11	4.4 out of 5 stars	9,348
## 46	€239.99€239.99	4.4 out of 5 stars	444
## 47	€41.99€41.99	4.5 out of 5 stars	18,261
## 48	€145.99€145.99	4.7 out of 5 stars	5
## 49	€53.62€53.62	4.6 out of 5 stars	1
## 50	€65.66€65.66	4.7 out of 5 stars	131
## 51	€8.99€8.99	<NA>	2,235
## 52	€10.99€10.99	<NA>	75
## 53	€6.95€6.95	4.5 out of 5 stars	33,797
## 54	€2.32€2.32	4.4 out of 5 stars	110
## 55	€19.98€19.98	4.3 out of 5 stars	883
## 56	€22.99€22.99	4.3 out of 5 stars	1
## 57	€29.90€29.90	4.4 out of 5 stars	63
## 58	€279.99€279.99	4.5 out of 5 stars	29
## 59	€16.47€16.47	4.3 out of 5 stars	2
## 60	€26.81€26.81	4.3 out of 5 stars	100
## 61	€60.98€60.98	4.3 out of 5 stars	37
## 62	€9.99€9.99	4.4 out of 5 stars	10,272
## 63	€12.99€12.99	4.3 out of 5 stars	5,451
## 64	€153.86€153.86	4.6 out of 5 stars	244
## 65	€175.00€175.00	4.3 out of 5 stars	320
## 66	€124.52€124.52	4.3 out of 5 stars	53
## 67	€59.99€59.99	4.3 out of 5 stars	14
## 68	€299.99€299.99	4.3 out of 5 stars	12
## 69	€169.99€169.99	4.5 out of 5 stars	5,182
## 70	€42.87€42.87	4.7 out of 5 stars	270
## 71	€138.00€138.00	4.6 out of 5 stars	5
## 72	€107.00€107.00	4.7 out of 5 stars	118
## 73	€59.48€59.48	<NA>	9,348
## 74	€73.28€73.28	<NA>	444
## 75	€38.18€38.18	<NA>	323
## 76	€8.99€8.99	<NA>	17
## 77	€10.99€10.99	<NA>	42
## 78	€39.99€39.99	<NA>	6
## 79	€9.87€9.87	<NA>	193
## 80	€1.97€1.97	<NA>	852
## 81	€84.99€84.99	<NA>	426
## 82	€629.99€629.99	<NA>	1
## 83	€679.99€679.99	<NA>	851
## 84	€329.99€329.99	<NA>	100
## 85	€369.99€369.99	<NA>	845
## 86	€5.08€5.08	<NA>	1,128
## 87	€59.04€59.04	<NA>	5
## 88	€62.21€62.21	<NA>	3
## 89	€159.14€159.14	<NA>	12

## 90	€59.99€59.99	<NA>	183
## 91	€319.99€319.99	<NA>	10
## 92	€35.78€35.78	<NA>	75
## 93	€89.94€89.94	<NA>	9
## 94	€142.00€142.00	<NA>	138
## 95	€160.71€160.71	<NA>	125
## 96	€219.90€219.90	<NA>	1,041
## 97	€19.52€19.52	<NA>	7
## 98	€78.37€78.37	<NA>	10,048
## 99	€89.44€89.44	<NA>	Another way to buy
## 100	€32.99€32.99	<NA>	1,510
## 101	€69.99€69.99	<NA>	348
## 102	€159.99€159.99	<NA>	101
## 103	€206.84€206.84	<NA>	105
## 104	€65.00€65.00	<NA>	113
## 105	€99.90€99.90	<NA>	Another way to buy
## 106	€122.05€122.05	<NA>	23
## 107	€139.99€139.99	<NA>	1,939
## 108	€139.99€139.99	<NA>	652
## 109	€100.92€100.92	<NA>	6,111
## 110	€68.52€68.52	<NA>	4,427

10 reviews per 10 movies

```
#movie 1
url01 <- "https://www.imdb.com/title/tt15314262/reviews?ref_=tt_urv"

session01<-bow(url01,user_agent ="For Educational purposes only")
session01

## <polite session> https://www.imdb.com/title/tt15314262/reviews?ref_=tt_urv
##   User-agent: For Educational purposes only
##   robots.txt: 35 rules are defined for 3 bots
##   Crawl delay: 5 sec
##   The path is scrapable for this user-agent

scrapeNodes <- function(selector){
  scrape(session01) %>%
    html_nodes(selector) %>%
    html_text(trim = TRUE)
}

movie_category <- rep("Movie",10)

movie_name <- scrapeNodes("a.subnav_heading")
movie_name <- rep(movie_name,10)
movie_name <- movie_name[1:10]

movie_reviewer <- scrapeNodes("span.display-name-link")
movie_reviewer <- movie_reviewer[1:10]

movie_review <- scrapeNodes("div.text.show-more__control")
movie_review <- movie_review[1:10]

movie_date <- scrapeNodes("span.review-date")
```

```

movie_date <- movie_date[1:10]

movie_rating <- scrapeNodes("span.rating-other-user-rating")
movie_rating <- movie_rating[1:10]

moviereviews1= data.frame()
moviereviews1 <- rbind(moviereviews1, data.frame(
  category = movie_category,
  name = movie_name,
  reviewer = movie_reviewer,
  reviews = movie_review,
  "date of review" =movie_date,
  ratings = movie_rating))

Sys.sleep(5)

#movie 2

url02 <- "https://www.imdb.com/title/tt6166392/reviews?ref_=tt_urv"

session<-bow(url02,user_agent ="For Educational purposes only")
session

## <polite session> https://www.imdb.com/title/tt6166392/reviews?ref_=tt_urv
##   User-agent: For Educational purposes only
##   robots.txt: 35 rules are defined for 3 bots
##   Crawl delay: 5 sec
##   The path is scrapable for this user-agent

scrapeNodes <- function(selector){
  scrape(session) %>%
    html_nodes(selector) %>%
    html_text(trim = TRUE)
}

movie_category <- rep("Movie",10)

movie_name2 <- scrapeNodes("a.subnav_heading")
movie_name2 <- rep(movie_name2,10)
movie_name2 <- movie_name2[1:10]

movie_reviewer2 <- scrapeNodes("span.display-name-link")
movie_reviewer2 <- movie_reviewer2[1:10]

movie_review2 <- scrapeNodes("div.text.show-more__control")
movie_review2 <- movie_review2[1:10]

movie_date2 <- scrapeNodes("span.review-date")
movie_date2 <- movie_date2[1:10]

movie_rating2 <- scrapeNodes("span.rating-other-user-rating")
movie_rating2 <- movie_rating2[1:10]

moviereviews2= data.frame()

```



```

moviereviews2 <- rbind(moviereviews2, data.frame(
  category = movie_category,
  name = movie_name2,
  reviewer = movie_reviewer2,
  reviews = movie_review2,
  "date of review" =movie_date2,
  ratings = movie_rating2))

Sys.sleep(5)

#movie 3

url03 <- "https://www.imdb.com/title/tt11762114/reviews?ref_=tt_urv"

session<-bow(url03,user_agent ="For Educational purposes only")
session

## <polite session> https://www.imdb.com/title/tt11762114/reviews?ref_=tt_urv
##   User-agent: For Educational purposes only
##   robots.txt: 35 rules are defined for 3 bots
##   Crawl delay: 5 sec
##   The path is scrapable for this user-agent
scrapeNodes <- function(selector){
  scrape(session) %>%
    html_nodes(selector) %>%
    html_text(trim = TRUE)
}

movie_category <- rep("Movie",10)

movie_name3 <- scrapeNodes("a.subnav_heading")
movie_name3 <- rep(movie_name3,10)
movie_name3 <- movie_name3[1:10]

movie_reviewer3 <- scrapeNodes("span.display-name-link")
movie_reviewer3 <- movie_reviewer3[1:10]

movie_review3 <- scrapeNodes("div.text.show-more__control")
movie_review3 <- movie_review3[1:10]

movie_date3 <- scrapeNodes("span.review-date")
movie_date3 <- movie_date3[1:10]

movie_rating3 <- scrapeNodes("span.rating-other-user-rating")
movie_rating3 <- movie_rating3[1:10]

moviereviews3= data.frame()
moviereviews3 <- rbind(moviereviews3, data.frame(
  category = movie_category,
  name = movie_name3,
  reviewer = movie_reviewer3,
  reviews = movie_review3,
  "date of review" =movie_date3,

```

```

        ratings = movie_rating3))

Sys.sleep(5)

#movie 4

url04 <- "https://www.imdb.com/title/tt6495056/reviews?ref_=tt_urv"

session<-bow(url04,user_agent ="For Educational purposes only")
session

## <polite session> https://www.imdb.com/title/tt6495056/reviews?ref_=tt_urv
##   User-agent: For Educational purposes only
##   robots.txt: 35 rules are defined for 3 bots
##   Crawl delay: 5 sec
##   The path is scrapable for this user-agent
scrapeNodes <- function(selector){
  scrape(session) %>%
    html_nodes(selector) %>%
    html_text(trim = TRUE)
}

movie_category <- rep("Movie",10)

movie_name4 <- scrapeNodes("a.subnav_heading")
movie_name4 <- rep(movie_name4,10)
movie_name4 <- movie_name4[1:10]

movie_reviewer4 <- scrapeNodes("span.display-name-link")
movie_reviewer4 <- movie_reviewer4[1:10]

movie_review4 <- scrapeNodes("div.text.show-more__control")
movie_review4 <- movie_review4[1:10]

movie_date4 <- scrapeNodes("span.review-date")
movie_date4 <- movie_date4[1:10]

movie_rating4 <- scrapeNodes("span.rating-other-user-rating")
movie_rating4 <- movie_rating4[1:10]

moviereviews4= data.frame()
moviereviews4 <- rbind(moviereviews4, data.frame(
  category = movie_category,
  name = movie_name4,
  reviewer = movie_reviewer4,
  reviews = movie_review4,
  "date of review" =movie_date4,
  ratings = movie_rating4))

Sys.sleep(5)

#movie 5

```

```

url05 <- "https://www.imdb.com/title/tt21188080/reviews?ref_=tt_urv"

session<-bow(url05,user_agent ="For Educational purposes only")
session

## <polite session> https://www.imdb.com/title/tt21188080/reviews?ref_=tt_urv
##   User-agent: For Educational purposes only
##   robots.txt: 35 rules are defined for 3 bots
##   Crawl delay: 5 sec
##   The path is scrapable for this user-agent

scrapeNodes <- function(selector){
  scrape(session) %>%
    html_nodes(selector) %>%
    html_text(trim = TRUE)
}

movie_category <- rep("Movie",10)

movie_name5 <- scrapeNodes("a.subnav_heading")
movie_name5 <- rep(movie_name5,10)
movie_name5 <- movie_name5[1:10]

movie_reviewer5 <- scrapeNodes("span.display-name-link")
movie_reviewer5 <- movie_reviewer5[1:10]

movie_review5 <- scrapeNodes("div.text.show-more__control")
movie_review5 <- movie_review5[1:10]

movie_date5 <- scrapeNodes("span.review-date")
movie_date5 <- movie_date5[1:10]

movie_rating5 <- scrapeNodes("span.rating-other-user-rating")
movie_rating5 <- movie_rating5[1:10]

moviereviews5= data.frame()
moviereviews5 <- rbind(moviereviews5, data.frame(
  category = movie_category,
  name = movie_name5,
  reviewer = movie_reviewer5,
  reviews = movie_review5,
  "date of review" =movie_date5,
  ratings = movie_rating5))

Sys.sleep(5)

#movie 6

url06 <- "https://www.imdb.com/title/tt15009428/reviews?ref_=tt_urv"

session<-bow(url06,user_agent ="For Educational purposes only")
session

## <polite session> https://www.imdb.com/title/tt15009428/reviews?ref_=tt_urv

```

```

##      User-agent: For Educational purposes only
##      robots.txt: 35 rules are defined for 3 bots
##      Crawl delay: 5 sec
##      The path is scrapable for this user-agent

scrapeNodes <- function(selector){
  scrape(session) %>%
    html_nodes(selector) %>%
    html_text(trim = TRUE)
}

movie_category <- rep("Movie",10)

movie_name6 <- scrapeNodes("a.subnav_heading")
movie_name6 <- rep(movie_name6,10)
movie_name6 <- movie_name6[1:10]

movie_reviewer6 <- scrapeNodes("span.display-name-link")
movie_reviewer6 <- movie_reviewer6[1:10]

movie_review6 <- scrapeNodes("div.text.show-more__control")
movie_review6 <- movie_review6[1:10]

movie_date6 <- scrapeNodes("span.review-date")
movie_date6 <- movie_date6[1:10]

movie_rating6 <- scrapeNodes("span.rating-other-user-rating")
movie_rating6 <- movie_rating6[1:10]

moviereviews6= data.frame()
moviereviews6 <- rbind(moviereviews6, data.frame(
  category = movie_category,
  name = movie_name6,
  reviewer = movie_reviewer6,
  reviews = movie_review6,
  "date of review" =movie_date6,
  ratings = movie_rating6))

Sys.sleep(5)

#movie 7

url07 <- "https://www.imdb.com/title/tt0109830/reviews?ref_=tt_urv"

session<-bow(url07,user_agent ="For Educational purposes only")
session

## <polite session> https://www.imdb.com/title/tt0109830/reviews?ref_=tt_urv
##      User-agent: For Educational purposes only
##      robots.txt: 35 rules are defined for 3 bots
##      Crawl delay: 5 sec
##      The path is scrapable for this user-agent

scrapeNodes <- function(selector){
  scrape(session) %>%
    html_nodes(selector) %>%

```

```

    html_text(trim = TRUE)
}

movie_category <- rep("Movie",10)

movie_name7 <- scrapeNodes("a.subnav_heading")
movie_name7 <- rep(movie_name7,10)
movie_name7 <- movie_name7[1:10]

movie_reviewer7 <- scrapeNodes("span.display-name-link")
movie_reviewer7 <- movie_reviewer7[1:10]

movie_review7 <- scrapeNodes("div.text.show-more__control")
movie_review7 <- movie_review7[1:10]

movie_date7 <- scrapeNodes("span.review-date")
movie_date7 <- movie_date7[1:10]

movie_rating7 <- scrapeNodes("span.rating-other-user-rating")
movie_rating7 <- movie_rating7[1:10]

moviereviews7= data.frame()
moviereviews7 <- rbind(moviereviews7, data.frame(
  category = movie_category,
  name = movie_name7,
  reviewer = movie_reviewer7,
  reviews = movie_review7,
  "date of review" =movie_date7,
  ratings = movie_rating7))

Sys.sleep(5)

#movie 8

url08 <- "https://www.imdb.com/title/tt14230458/reviews?ref_=tt_urv"

session<-bow(url08,user_agent ="For Educational purposes only")
session

## <polite session> https://www.imdb.com/title/tt14230458/reviews?ref_=tt_urv
##   User-agent: For Educational purposes only
##   robots.txt: 35 rules are defined for 3 bots
##   Crawl delay: 5 sec
##   The path is scrapable for this user-agent

scrapeNodes <- function(selector){
  scrape(session) %>%
    html_nodes(selector) %>%
    html_text(trim = TRUE)
}

movie_category <- rep("Movie",10)

movie_name8 <- scrapeNodes("a.subnav_heading")

```

```

movie_name8 <- rep(movie_name8,10)
movie_name8 <- movie_name8[1:10]

movie_reviewer8 <- scrapeNodes("span.display-name-link")
movie_reviewer8 <- movie_reviewer8[1:10]

movie_review8 <- scrapeNodes("div.text.show-more__control")
movie_review8 <- movie_review8[1:10]

movie_date8 <- scrapeNodes("span.review-date")
movie_date8 <- movie_date8[1:10]

movie_rating8 <- scrapeNodes("span.rating-other-user-rating")
movie_rating8 <- movie_rating8[1:10]

moviereviews8= data.frame()
moviereviews8 <- rbind(moviereviews8, data.frame(
  category = movie_category,
  name = movie_name8,
  reviewer = movie_reviewer8,
  reviews = movie_review8,
  "date of review" =movie_date8,
  ratings = movie_rating8))

Sys.sleep(5)

#movie 9

url09 <- "https://www.imdb.com/title/tt23561236/reviews?ref_=tt_urv"

session<-bow(url09,user_agent ="For Educational purposes only")
session

## <polite session> https://www.imdb.com/title/tt23561236/reviews?ref_=tt_urv
##   User-agent: For Educational purposes only
##   robots.txt: 35 rules are defined for 3 bots
##   Crawl delay: 5 sec
##   The path is scrapable for this user-agent

scrapeNodes <- function(selector){
  scrape(session) %>%
    html_nodes(selector) %>%
    html_text(trim = TRUE)
}

movie_category <- rep("Movie",10)

movie_name9 <- scrapeNodes("a.subnav_heading")
movie_name9 <- rep(movie_name9,10)
movie_name9 <- movie_name9[1:10]

movie_reviewer9 <- scrapeNodes("span.display-name-link")
movie_reviewer9 <- movie_reviewer9[1:10]

movie_review9 <- scrapeNodes("div.text.show-more__control")

```

```

movie_review9 <- movie_review9[1:10]

movie_date9 <- scrapeNodes("span.review-date")
movie_date9 <- movie_date9[1:10]

movie_rating9 <- scrapeNodes("span.rating-other-user-rating")
movie_rating9 <- movie_rating9[1:10]

moviereviews9= data.frame()
moviereviews9 <- rbind(moviereviews9, data.frame(
  category = movie_category,
  name = movie_name9,
  reviewer = movie_reviewer9,
  reviews = movie_review9,
  "date of review" =movie_date9,
  ratings = movie_rating9))

Sys.sleep(5)

#movie 10

url10 <- "https://www.imdb.com/title/tt15398776/reviews?ref_=tt_urv"

session<-bow(url10,user_agent ="For Educational purposes only")
session

## <polite session> https://www.imdb.com/title/tt15398776/reviews?ref_=tt_urv
##   User-agent: For Educational purposes only
##   robots.txt: 35 rules are defined for 3 bots
##   Crawl delay: 5 sec
##   The path is scrapable for this user-agent

scrapeNodes <- function(selector){
  scrape(session) %>%
    html_nodes(selector) %>%
    html_text(trim = TRUE)
}

movie_category <- rep("Movie",10)

movie_name10 <- scrapeNodes("a.subnav_heading")
movie_name10 <- rep(movie_name10,10)
movie_name10 <- movie_name10[1:10]

movie_reviewer10 <- scrapeNodes("span.display-name-link")
movie_reviewer10 <- movie_reviewer10[1:10]

movie_review10 <- scrapeNodes("div.text.show-more__control")
movie_review10 <- movie_review10[1:10]

movie_date10 <- scrapeNodes("span.review-date")
movie_date10 <- movie_date10[1:10]

movie_rating10 <- scrapeNodes("span.rating-other-user-rating")
movie_rating10 <- movie_rating10[1:10]

```

```
moviereviews10= data.frame()
moviereviews10 <- rbind(moviereviews10, data.frame(
  category = movie_category,
  name = movie_name10,
  reviewer = movie_reviewer10,
  reviews = movie_review10,
  "date of review" =movie_date10,
  ratings = movie_rating10))

Sys.sleep(5)
```