

# CS102\_ACTIVITY3\_SADSAD

BSIT-2B

2024-02-13

```
##ACTIVITY 3
```

```
library(rvest)
```

```
## Warning: package 'rvest' was built under R version 4.3.2
```

```
library(dplyr)
```

```
## Warning: package 'dplyr' was built under R version 4.3.2
```

```
##
```

```
## 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(writexl)
```

```
## Warning: package 'writexl' was built under R version 4.3.2
```

```
library(polite)
```

```
## Warning: package 'polite' was built under R version 4.3.2
```

```
#1. Phantom Thread
```

```
session <- bow(url = 'https://www.imdb.com/title/tt5776858/reviews?ref_=tt_urv',  
               user_agent = "Student's Demo Educational")
```

```
session
```



```
final_all_reviews <- do.call(rbind, all_reviews)
```

```
View(final_all_reviews)
```

```
#####  
#2. Alien (1979)
```

```
session2<- bow(url = 'https://www.imdb.com/title/tt0078748/reviews/?ref_=tt_ov_rt',  
               user_agent = "Student's Demo Educational")
```

```
session2
```

```
## <polite session> https://www.imdb.com/title/tt0078748/reviews/?ref_=tt_ov_rt  
##   User-agent: Student's Demo Educational  
##   robots.txt: 35 rules are defined for 3 bots  
##   Crawl delay: 5 sec  
##   The path is scrapable for this user-agent
```

```
session_scrape2 <- scrape(session2)
```

```
scrape_reviews2 <- function(page_url) {
```

```
  reviews_page <- read_html(page_url)  
  names2 <- reviews_page %>%  
    html_nodes(".display-name-link") %>%  
    html_text()
```

```
  dates2 <- reviews_page %>%  
    html_nodes("span.review-date") %>%  
    html_text()
```

```
  ratings2 <- reviews_page %>%  
    html_nodes("span.rating-other-user-rating") %>%  
    html_text()
```

```
  content_reviews2 <- reviews_page %>%  
    html_nodes("a.title") %>%  
    html_text()
```

```
  reviews2 <- reviews_page %>%  
    html_nodes(".text.show-more__control") %>%  
    html_text()
```

```
  AlienMOVIE_df = data.frame( Movie_name = c('Alien (1979)'),  
                               User_Name = names2[1:25],  
                               Date = dates2[1:25],  
                               User_Rating = ratings2[1:25],  
                               Content_Review = content_reviews2[1:25],  
                               Reviews = reviews2[1:25])
```

```

    })

Alien_MOVIE_urls <- c( 'https://www.imdb.com/title/tt0078748/reviews/?ref_=tt_ov_rt',
  'https://www.imdb.com/title/tt0078748/reviews/_ajax?&paginationKey=g4w6ddbmqyzdo',
  'https://www.imdb.com/title/tt0078748/reviews/_ajax?&paginationKey=g4w6ddbmqyzdo',
  'https://www.imdb.com/title/tt0078748/reviews/_ajax?&paginationKey=g4w6ddbmqyzdo',
  'https://www.imdb.com/title/tt0078748/reviews/_ajax?&paginationKey=g4w6ddbmqyzdo',
  'https://www.imdb.com/title/tt0078748/reviews/_ajax?&paginationKey=g4w6ddbmqyzdo',
  'https://www.imdb.com/title/tt0078748/reviews/_ajax?&paginationKey=g4w6ddbmqyzdo',
  'https://www.imdb.com/title/tt0078748/reviews/_ajax?&paginationKey=g4w6ddbmqyzdo',
  'https://www.imdb.com/title/tt0078748/reviews/_ajax?&paginationKey=g4w6ddbmqyzdo',
  'https://www.imdb.com/title/tt0078748/reviews/_ajax?&paginationKey=g4w6ddbmqyzdo'
)

all_reviews2 <- lapply(Alien_MOVIE_urls, scrape_reviews2)

final_all_reviews2 <- do.call(rbind, all_reviews2)

View(final_all_reviews2)

```

#####  
*#3. Salt Burn*

```

session3<- bow(url = 'https://www.imdb.com/title/tt17351924/reviews?ref_=tt_urv',
  user_agent = "Student's Demo Educational")

session3

```

```

## <polite session> https://www.imdb.com/title/tt17351924/reviews?ref_=tt_urv
##   User-agent: Student's Demo Educational
##   robots.txt: 35 rules are defined for 3 bots
##   Crawl delay: 5 sec
##   The path is scrapable for this user-agent

```

```

session_scrape3 <- scrape(session3)

scrape_reviews3 <- function(page_url) {

  reviews_page <- read_html(page_url)
  names3 <- reviews_page %>%
    html_nodes(".display-name-link") %>%
    html_text()

  dates3 <- reviews_page %>%
    html_nodes("span.review-date") %>%
    html_text()

  ratings3 <- reviews_page %>%
    html_nodes("span.rating-other-user-rating") %>%

```

```

    html_text()

content_reviews3 <- reviews_page %>%
  html_nodes("a.title") %>%
  html_text()

reviews3 <- reviews_page %>%
  html_nodes(".text.show-more__control") %>%
  html_text()

Saltburn_MOVIE_df = data.frame( Movie_name = c('Salt Burn'),
                                User_Name = names3[1:25],
                                Date = dates3[1:25],
                                User_Rating = ratings3[1:25],
                                Content_Review = content_reviews3[1:25],
                                Reviews = reviews3[1:25]
  )

Saltburn_MOVIE_urls <- c( 'https://www.imdb.com/title/tt17351924/reviews?ref_=tt_urv',
                          'https://www.imdb.com/title/tt17351924/reviews/_ajax?&paginationKey=g4w6ddbmq',
                          'https://www.imdb.com/title/tt17351924/reviews/_ajax?&paginationKey=g4w6ddbmq',
                          'https://www.imdb.com/title/tt17351924/reviews/_ajax?&paginationKey=g4w6ddbmq',
                          'https://www.imdb.com/title/tt17351924/reviews/_ajax?&paginationKey=g4w6ddbmq',
                          'https://www.imdb.com/title/tt17351924/reviews/_ajax?&paginationKey=g4w6ddbmq',
                          'https://www.imdb.com/title/tt17351924/reviews/_ajax?&paginationKey=g4w6ddbmq',
                          'https://www.imdb.com/title/tt17351924/reviews/_ajax?&paginationKey=g4w6ddbmq',
                          'https://www.imdb.com/title/tt17351924/reviews/_ajax?&paginationKey=g4w6ddbmq',
                          'https://www.imdb.com/title/tt17351924/reviews/_ajax?&paginationKey=g4w6ddbmq'
                        )

all_reviews3 <- lapply(Saltburn_MOVIE_urls, scrape_reviews3)

final_all_reviews3 <- do.call(rbind, all_reviews3)

View(final_all_reviews3)

#####
#4.Puss in Boots: The Last Wish

session4<- bow(url = 'https://www.imdb.com/title/tt3915174/reviews?ref_=tt_urv',
               user_agent = "Student's Demo Educational")

session4

## <polite session> https://www.imdb.com/title/tt3915174/reviews?ref_=tt_urv
##   User-agent: Student's Demo Educational
##   robots.txt: 35 rules are defined for 3 bots
##   Crawl delay: 5 sec
##   The path is scrapable for this user-agent

```

```

session_scrape4 <- scrape(session4)

scrape_reviews4 <- function(page_url) {

  reviews_page <- read_html(page_url)
  names4 <- reviews_page %>%
    html_nodes(".display-name-link") %>%
    html_text()

  dates4 <- reviews_page %>%
    html_nodes("span.review-date") %>%
    html_text()

  ratings4 <- reviews_page %>%
    html_nodes("span.rating-other-user-rating") %>%
    html_text()

  content_reviews4 <- reviews_page %>%
    html_nodes("a.title") %>%
    html_text()

  reviews4 <- reviews_page %>%
    html_nodes(".text.show-more__control") %>%
    html_text()

  Puss_in_Boots_MOVIE_df = data.frame( Movie_name = c('Puss in Boots: The Last Wish'),
                                         User_Name = names4[1:25],
                                         Date = dates4[1:25],
                                         User_Rating = ratings4[1:25],
                                         Content_Review = content_reviews4[1:25],
                                         Reviews = reviews4[1:25]
  )

  Puss_in_Boots_MOVIE_urls <- c('https://www.imdb.com/title/tt3915174/reviews?ref_=tt_urv',
                                'https://www.imdb.com/title/tt3915174/reviews/_ajax?&paginationKey=g4w6dd',
                                'https://www.imdb.com/title/tt3915174/reviews/_ajax?&paginationKey=g4w6dd',
                                'https://www.imdb.com/title/tt3915174/reviews/_ajax?&paginationKey=g4w6dd',
                                'https://www.imdb.com/title/tt3915174/reviews/_ajax?&paginationKey=g4w6dd',
                                'https://www.imdb.com/title/tt3915174/reviews/_ajax?&paginationKey=g4w6dd',
                                'https://www.imdb.com/title/tt3915174/reviews/_ajax?&paginationKey=g4w6dd',
                                'https://www.imdb.com/title/tt3915174/reviews/_ajax?&paginationKey=g4w6dd',
                                'https://www.imdb.com/title/tt3915174/reviews/_ajax?&paginationKey=g4w6dd',
                                'https://www.imdb.com/title/tt3915174/reviews/_ajax?&paginationKey=g4w6dd',
                                'https://www.imdb.com/title/tt3915174/reviews/_ajax?&paginationKey=g4w6dd'
  )

  all_reviews4 <- lapply(Puss_in_Boots_MOVIE_urls, scrape_reviews4)

  final_all_reviews4 <- do.call(rbind, all_reviews4)

  View(final_all_reviews4)

```

```
#####
#5.Howl's Moving Castle
```

```
session5<- bow(url = 'https://www.imdb.com/title/tt0347149/reviews/?ref_=tt_ov_rt',
               user_agent = "Student's Demo Educational")
```

```
session5
```

```
## <polite session> https://www.imdb.com/title/tt0347149/reviews/?ref_=tt_ov_rt
##      User-agent: Student's Demo Educational
##      robots.txt: 35 rules are defined for 3 bots
##      Crawl delay: 5 sec
##      The path is scrapable for this user-agent
```

```
session_scrape5 <- scrape(session5)
```

```
scrape_reviews5 <- function(page_url) {
```

```
  reviews_page <- read_html(page_url)
  names5 <- reviews_page %>%
    html_nodes(".display-name-link") %>%
    html_text()
```

```
  dates5 <- reviews_page %>%
    html_nodes("span.review-date") %>%
    html_text()
```

```
  ratings5 <- reviews_page %>%
    html_nodes("span.rating-other-user-rating") %>%
    html_text()
```

```
  content_reviews5 <- reviews_page %>%
    html_nodes("a.title") %>%
    html_text()
```

```
  reviews5 <- reviews_page %>%
    html_nodes(".text.show-more__control") %>%
    html_text()
```

```
  Howls_Moving_Castle_MOVIE_df = data.frame( Movie_name = c('Howls Moving Castle'),
                                              User_Name = names5[1:25],
                                              Date = dates5[1:25],
                                              User_Rating = ratings5[1:25],
                                              Content_Review = content_reviews5[1:25],
                                              Reviews = reviews5[1:25]
```

```
  )}
```

```
Howls_Moving_Castle_MOVIE_urls <- c( 'https://www.imdb.com/title/tt0347149/reviews/?ref_=tt_ov_rt',
                                     'https://www.imdb.com/title/tt0347149/reviews/_ajax?&paginationKey=1',
                                     'https://www.imdb.com/title/tt0347149/reviews/_ajax?&paginationKey=2',
                                     'https://www.imdb.com/title/tt0347149/reviews/_ajax?&paginationKey=3',
                                     'https://www.imdb.com/title/tt0347149/reviews/_ajax?&paginationKey=4')
```

```

'https://www.imdb.com/title/tt0347149/reviews/_ajax?&paginationKey=
'https://www.imdb.com/title/tt0347149/reviews/_ajax?&paginationKey=
'https://www.imdb.com/title/tt0347149/reviews/_ajax?&paginationKey=
'https://www.imdb.com/title/tt0347149/reviews/_ajax?&paginationKey=
'https://www.imdb.com/title/tt0347149/reviews/_ajax?&paginationKey=
'https://www.imdb.com/title/tt0347149/reviews/_ajax?&paginationKey=
'https://www.imdb.com/title/tt0347149/reviews/_ajax?&paginationKey=
)

```

```
all_reviews5 <- lapply(Howls_Moving_Castle_MOVIE_urls, scrape_reviews5)
```

```
final_all_reviews5 <- do.call(rbind, all_reviews5)
```

```
View(final_all_reviews5)
```

```
#####
#6.Black Widow
```

```
session6<- bow(url = 'https://www.imdb.com/title/tt3480822/reviews/?ref_=tt_ov_rt',
               user_agent = "Student's Demo Educational")
```

```
session6
```

```
## <polite session> https://www.imdb.com/title/tt3480822/reviews/?ref_=tt_ov_rt
##   User-agent: Student's Demo Educational
##   robots.txt: 35 rules are defined for 3 bots
##   Crawl delay: 5 sec
##   The path is scrapable for this user-agent
```

```
session_scrape6 <- scrape(session6)
```

```
scrape_reviews6 <- function(page_url) {
```

```

  reviews_page <- read_html(page_url)
  names6 <- reviews_page %>%
    html_nodes(".display-name-link") %>%
    html_text()

```

```

  dates6 <- reviews_page %>%
    html_nodes("span.review-date") %>%
    html_text()

```

```

  ratings6 <- reviews_page %>%
    html_nodes("span.rating-other-user-rating") %>%
    html_text()

```

```

  content_reviews6 <- reviews_page %>%
    html_nodes("a.title") %>%
    html_text()

```

```
reviews6 <- reviews_page %>%
```



```

html_nodes(".text.show-more__control") %>%
html_text()

Black_Widow_MOVIE_df = data.frame( Movie_name = c('Black Widow'),
                                   User_Name = names6[1:25],
                                   Date = dates6[1:25],
                                   User_Rating = ratings6[1:25],
                                   Content_Review = content_reviews6[1:25],
                                   Reviews = reviews6[1:25]
)

Black_Widow_MOVIE_urls <- c( 'https://www.imdb.com/title/tt3480822/reviews/?ref_=tt_ov_rt',
                             'https://www.imdb.com/title/tt3480822/reviews/_ajax?&paginationKey=g4w6ddb',
                             'https://www.imdb.com/title/tt3480822/reviews/_ajax?&paginationKey=g4w6ddb',
                             'https://www.imdb.com/title/tt3480822/reviews/_ajax?&paginationKey=g4w6ddb',
                             'https://www.imdb.com/title/tt3480822/reviews/_ajax?&paginationKey=g4w6ddb',
                             'https://www.imdb.com/title/tt3480822/reviews/_ajax?&paginationKey=g4w6ddb',
                             'https://www.imdb.com/title/tt3480822/reviews/_ajax?&paginationKey=g4w6ddb',
                             'https://www.imdb.com/title/tt3480822/reviews/_ajax?&paginationKey=g4w6ddb',
                             'https://www.imdb.com/title/tt3480822/reviews/_ajax?&paginationKey=g4w6ddb',
                             'https://www.imdb.com/title/tt3480822/reviews/_ajax?&paginationKey=g4w6ddb',
                             'https://www.imdb.com/title/tt3480822/reviews/_ajax?&paginationKey=g4w6ddb'
)

all_reviews6 <- lapply(Black_Widow_MOVIE_urls, scrape_reviews6)

final_all_reviews6 <- do.call(rbind, all_reviews6)

View(final_all_reviews6)

#####
#7. First Blood

session7<- bow(url = 'https://www.imdb.com/title/tt0083944/reviews/?ref_=tt_ov_rt',
               user_agent = "Student's Demo Educational")

session7

## <polite session> https://www.imdb.com/title/tt0083944/reviews/?ref_=tt_ov_rt
##   User-agent: Student's Demo Educational
##   robots.txt: 35 rules are defined for 3 bots
##   Crawl delay: 5 sec
##   The path is scrapable for this user-agent

session_scrape7 <- scrape(session7)

scrape_reviews7 <- function(page_url) {

  reviews_page <- read_html(page_url)
  names7 <- reviews_page %>%
    html_nodes(".display-name-link") %>%
    html_text()

```

```

dates7 <- reviews_page %>%
  html_nodes("span.review-date") %>%
  html_text()

ratings7 <- reviews_page %>%
  html_nodes("span.rating-other-user-rating") %>%
  html_text()

content_reviews7 <- reviews_page %>%
  html_nodes("a.title") %>%
  html_text()

reviews7 <- reviews_page %>%
  html_nodes(".text.show-more__control") %>%
  html_text()

First_Blood_MOVIE_df = data.frame( Movie_name = c('First Blood'),
                                   User_Name = names7[1:25],
                                   Date = dates7[1:25],
                                   User_Rating = ratings7[1:25],
                                   Content_Review = content_reviews7[1:25],
                                   Reviews = reviews7[1:25]
)

First_Blood_MOVIE_urls <- c( 'https://www.imdb.com/title/tt0083944/reviews/?ref_=tt_ov_rt',
                             'https://www.imdb.com/title/tt0083944/reviews/_ajax?&paginationKey=g4w6ddb',
                             'https://www.imdb.com/title/tt0083944/reviews/_ajax?&paginationKey=g4w6ddb',
                             'https://www.imdb.com/title/tt0083944/reviews/_ajax?&paginationKey=g4w6ddb',
                             'https://www.imdb.com/title/tt0083944/reviews/_ajax?&paginationKey=g4w6ddb',
                             'https://www.imdb.com/title/tt0083944/reviews/_ajax?&paginationKey=g4w6ddb',
                             'https://www.imdb.com/title/tt0083944/reviews/_ajax?&paginationKey=g4w6ddb',
                             'https://www.imdb.com/title/tt0083944/reviews/_ajax?&paginationKey=g4w6ddb',
                             'https://www.imdb.com/title/tt0083944/reviews/_ajax?&paginationKey=g4w6ddb',
                             'https://www.imdb.com/title/tt0083944/reviews/_ajax?&paginationKey=g4w6ddb',
                             'https://www.imdb.com/title/tt0083944/reviews/_ajax?&paginationKey=g4w6ddb',
                             'https://www.imdb.com/title/tt0083944/reviews/_ajax?&paginationKey=g4w6ddb'
)

all_reviews7 <- lapply(First_Blood_MOVIE_urls, scrape_reviews7)

final_all_reviews7 <- do.call(rbind, all_reviews7)

View(final_all_reviews7)

#####
#8. The Meg

session8<- bow(url = 'https://www.imdb.com/title/tt4779682/reviews/?ref_=tt_ov_rt',
               user_agent = "Student's Demo Educational")

session8

```



```
final_all_reviews8 <- do.call(rbind, all_reviews8)
```

```
View(final_all_reviews8)
```

```
#####  
#9. Avengers: Infinity War
```

```
session9<- bow(url = 'https://www.imdb.com/title/tt4154756/reviews/?ref_=tt_ov_rt',  
               user_agent = "Student's Demo Educational")
```

```
session9
```

```
## <polite session> https://www.imdb.com/title/tt4154756/reviews/?ref_=tt_ov_rt  
##   User-agent: Student's Demo Educational  
##   robots.txt: 35 rules are defined for 3 bots  
##   Crawl delay: 5 sec  
##   The path is scrapable for this user-agent
```

```
session_scrape9 <- scrape(session9)
```

```
scrape_reviews9 <- function(page_url) {
```

```
  reviews_page <- read_html(page_url)  
  names9 <- reviews_page %>%  
    html_nodes(".display-name-link") %>%  
    html_text()
```

```
  dates9 <- reviews_page %>%  
    html_nodes("span.review-date") %>%  
    html_text()
```

```
  ratings9 <- reviews_page %>%  
    html_nodes("span.rating-other-user-rating") %>%  
    html_text()
```

```
  content_reviews9 <- reviews_page %>%  
    html_nodes("a.title") %>%  
    html_text()
```

```
  reviews9 <- reviews_page %>%  
    html_nodes(".text.show-more__control") %>%  
    html_text()
```

```
  Infinity_War_MOVIE_df = data.frame( Movie_name = c('Avengers: Infinity War'),  
                                       User_Name = names9[1:25],  
                                       Date = dates9[1:25],  
                                       User_Rating = ratings9[1:25],  
                                       Content_Review = content_reviews9[1:25],  
                                       Reviews = reviews9[1:25]
```

```
  )}
```

```
Infinity_War_MOVIE_urls <- c( 'https://www.imdb.com/title/tt4154756/reviews/?ref_=tt_ov_rt',
```

```

'https://www.imdb.com/title/tt4154756/reviews/_ajax?&paginationKey=g4w6ddl
'https://www.imdb.com/title/tt4154756/reviews/_ajax?&paginationKey=g4w6ddl
'https://www.imdb.com/title/tt4154756/reviews/_ajax?&paginationKey=g4w6ddl
'https://www.imdb.com/title/tt4154756/reviews/_ajax?&paginationKey=g4w6ddl
'https://www.imdb.com/title/tt4154756/reviews/_ajax?&paginationKey=g4w6ddl
'https://www.imdb.com/title/tt4154756/reviews/_ajax?&paginationKey=g4w6ddl
'https://www.imdb.com/title/tt4154756/reviews/_ajax?&paginationKey=g4w6ddl
'https://www.imdb.com/title/tt4154756/reviews/_ajax?&paginationKey=g4w6ddl
'https://www.imdb.com/title/tt4154756/reviews/_ajax?&paginationKey=g4w6ddl
'https://www.imdb.com/title/tt4154756/reviews/_ajax?&paginationKey=g4w6ddl
)

```

```
all_reviews9 <- lapply(Infinity_War_MOVIE_urls, scrape_reviews9 )
```

```
final_all_reviews9 <- do.call(rbind, all_reviews9 )
```

```
View(final_all_reviews9)
```

```
#####
#10. WALL-E
```

```
session10<- bow(url = 'https://www.imdb.com/title/tt0910970/reviews/?ref_=ttrcv_ql_2',
                user_agent = "Student's Demo Educational")
```

```
session10
```

```
## <polite session> https://www.imdb.com/title/tt0910970/reviews/?ref_=ttrcv_ql_2
##   User-agent: Student's Demo Educational
##   robots.txt: 35 rules are defined for 3 bots
##   Crawl delay: 5 sec
##   The path is scrapable for this user-agent
```

```
session_scrape10 <- scrape(session10)
```

```
scrape_reviews10 <- function(page_url) {
```

```

  reviews_page <- read_html(page_url)
  names10 <- reviews_page %>%
    html_nodes(".display-name-link") %>%
    html_text()

```

```

  dates10 <- reviews_page %>%
    html_nodes("span.review-date") %>%
    html_text()

```

```

  ratings10 <- reviews_page %>%
    html_nodes("span.rating-other-user-rating") %>%
    html_text()

```

```

content_reviews10 <- reviews_page %>%
  html_nodes("a.title") %>%
  html_text()

reviews10 <- reviews_page %>%
  html_nodes(".text.show-more__control") %>%
  html_text()

WALL_E_MOVIE_df = data.frame( Movie_name = c('WALL-E'),
                               User_Name = names10[1:25],
                               Date = dates10[1:25],
                               User_Rating = ratings10[1:25],
                               Content_Review = content_reviews10[1:25],
                               Reviews = reviews10[1:25]
)

WALL_E_MOVIE_urls <- c( 'https://www.imdb.com/title/tt0910970/reviews/?ref_=ttcrv_ql_2',
                        'https://www.imdb.com/title/tt0910970/reviews/_ajax?&paginationKey=g4w6ddbmqydz',
                        'https://www.imdb.com/title/tt0910970/reviews/_ajax?&paginationKey=g4w6ddbmqydz',
                        'https://www.imdb.com/title/tt0910970/reviews/_ajax?&paginationKey=g4w6ddbmqydz',
                        'https://www.imdb.com/title/tt0910970/reviews/_ajax?&paginationKey=g4w6ddbmqydz',
                        'https://www.imdb.com/title/tt0910970/reviews/_ajax?&paginationKey=g4w6ddbmqydz',
                        'https://www.imdb.com/title/tt0910970/reviews/_ajax?&paginationKey=g4w6ddbmqydz',
                        'https://www.imdb.com/title/tt0910970/reviews/_ajax?&paginationKey=g4w6ddbmqydz',
                        'https://www.imdb.com/title/tt0910970/reviews/_ajax?&paginationKey=g4w6ddbmqydz',
                        'https://www.imdb.com/title/tt0910970/reviews/_ajax?&paginationKey=g4w6ddbmqydz',
                        'https://www.imdb.com/title/tt0910970/reviews/_ajax?&paginationKey=g4w6ddbmqydz'
)

all_reviews10 <- lapply(WALL_E_MOVIE_urls, scrape_reviews10 )

final_all_reviews10 <- do.call(rbind, all_reviews10)

View(final_all_reviews10)

all_reviews <- rbind(final_all_reviews,
                     final_all_reviews2,
                     final_all_reviews3,
                     final_all_reviews4,
                     final_all_reviews5,
                     final_all_reviews6,
                     final_all_reviews7,
                     final_all_reviews8,
                     final_all_reviews9,
                     final_all_reviews10)

View(all_reviews)

```

```
write_xlsx(all_reviews, "scrape3000reviews.xlsx")
```