LAB_ACTIVITY#2

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

movie1 <- data.frame()

for (page in 1:5) {
  link1 <- paste0("https://www.imdb.com/title/tt0111161/reviews?ref_=tt_urv", page)
  session1 <- bow(link1, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "The Shawshank Redemption"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie1 <- rbind(movie1, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(1)
}
View(movie1)

library(dplyr)
library(rvest)
```

```r
library(polite)
library(httr)
library(selectr)
movie2 <- data.frame()

for (page in 1:5) {
  link2 <- paste0("https://www.imdb.com/title/tt0068646/reviews?ref_=tt_urv", page)
  session1 <- bow(link2, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "The Godfather"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie2 <- rbind(movie2, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(2)
}

View(movie2)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie3 <- data.frame()

for (page in 1:5) {
  link3 <- paste0("https://www.imdb.com/title/tt0468569/reviews?ref_=tt_urv", page)
  session1 <- bow(link3, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }
```

```r
  movieName <- "The Dark Knight"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie3 <- rbind(movie3, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(3)
}

View(movie3)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie4 <- data.frame()

for (page in 1:5) {
  link4 <- paste0("https://www.imdb.com/title/tt0068646/reviews?ref_=tt_urv", page)
  session1 <- bow(link4, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "The Godfather Part II"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie4 <- rbind(movie4, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
```

```
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))
  #Sys.sleep(4)

}

View(movie4)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie5 <- data.frame()

for (page in 1:5) {
  link5 <- paste0("https://www.imdb.com/title/tt0050083/reviews?ref_=tt_urv", page)
  session1 <- bow(link5, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "12 Angry Men"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie5 <- rbind(movie5, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))
  #Sys.sleep(5)

}

View(movie5)

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

```r
movie6 <- data.frame()

for (page in 1:5) {
  link6 <- paste0("https://www.imdb.com/title/tt0108052/reviews?ref_=tt_urv", page)
  session1 <- bow(link6, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "Schindler's List"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie6 <- rbind(movie6, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))
  #Sys.sleep(6)

}

View(movie6)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie7 <- data.frame()

for (page in 1:5) {
  link7 <- paste0("https://www.imdb.com/title/tt0167260/reviews?ref_=tt_urv", page)
  session1 <- bow(link7, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "The Lord of the Rings: The Return of the King"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
```

```r
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie7 <- rbind(movie7, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))
  #Sys.sleep(7)

}

View(movie7)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie8 <- data.frame()

for (page in 1:5) {
  link8 <- paste0("https://www.imdb.com/title/tt1630029/reviews?ref_=tt_urv", page)
  session1 <- bow(link8, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "Avatar: The Way of Water"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie8 <- rbind(movie8, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
```

```r
  ))
  #Sys.sleep(8)

}

View(movie8)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie9 <- data.frame()

for (page in 1:5) {
  link9 <- paste0("https://www.imdb.com/title/tt0110912/reviews?ref_=tt_urv", page)
  session1 <- bow(link9, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "Pulp Fiction"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie9 <- rbind(movie9, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(9)
}

View(movie9)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie10 <- data.frame()

for (page in 1:5) {
```

```r
  link10 <- paste0("https://www.imdb.com/title/tt0120737/reviews?ref_=tt_urv", page)
  session1 <- bow(link10, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "The Lord of the Rings: The Fellowship of the Ring"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie10 <- rbind(movie10, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))
  #Sys.sleep(10)
}

View(movie10)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie11 <- data.frame()

for (page in 1:5) {
  link11 <- paste0("https://www.imdb.com/title/tt0060196/reviews?ref_=tt_urv", page)
  session1 <- bow(link11, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "The Good, the Bad and the Ugly"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
```

```
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie11 <- rbind(movie11, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(11)
}

View(movie11)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie12 <- data.frame()

for (page in 1:5) {
  link12 <- paste0("https://www.imdb.com/title/tt0109830/reviews?ref_=tt_urv", page)
  session1 <- bow(link12, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "Forrest Gump"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie12 <- rbind(movie12, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(12)
}
```

```
View(movie12)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie13 <- data.frame()

for (page in 1:5) {
  link13 <- paste0("https://www.imdb.com/title/tt0167261/reviews?ref_=tt_urv", page)
  session1 <- bow(link13, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "The Lord of the Rings: The Two Towers"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie13 <- rbind(movie13, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(13)
}

View(movie13)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie14 <- data.frame()

for (page in 1:5) {
  link14 <- paste0("https://www.imdb.com/title/tt0137523/reviews?ref_=tt_urv", page)
  session1 <- bow(link14, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
```

```r
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "Fight Club"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie14 <- rbind(movie14, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(14)
}

View(movie14)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie15 <- data.frame()

for (page in 1:5) {
  link15 <- paste0("https://www.imdb.com/title/tt1375666/reviews?ref_=tt_urv", page)
  session1 <- bow(link15, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "Inception"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie15 <- rbind(movie15, data.frame(
```

```
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(15)
}

View(movie15)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie16 <- data.frame()

for (page in 1:5) {
  link16 <- paste0("https://www.imdb.com/title/tt0080684/reviews?ref_=tt_urv", page)
  session1 <- bow(link16, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "Star Wars: Episode V - The Empire Strikes Back"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie16 <- rbind(movie16, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(16)
}

View(movie16)

library(dplyr)
```

```r
library(rvest)
library(polite)
library(httr)
library(selectr)
movie17 <- data.frame()

for (page in 1:5) {
  link17 <- paste0("https://www.imdb.com/title/tt0133093/reviews?ref_=tt_urv", page)
  session1 <- bow(link17, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "The Matrix"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie17 <- rbind(movie17, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(17)
}

View(movie17)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie18 <- data.frame()

for (page in 1:5) {
  link18 <- paste0("https://www.imdb.com/title/tt0099685/reviews?ref_=tt_urv", page)
  session1 <- bow(link18, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
```

```
  }

  movieName <- "Goodfellas"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie18 <- rbind(movie18, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(18)
}

View(movie18)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie19 <- data.frame()

for (page in 1:5) {
  link19 <- paste0("https://www.imdb.com/title/tt0073486/reviews?ref_=tt_urv", page)
  session1 <- bow(link19, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "One Flew Over the Cuckoo's Nest"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie19 <- rbind(movie19, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
```

```
      review = scrapedReview,
      date = scrapedDate,
      ratings = scrapedRating,
      type_of_movie = scrapedType
  ))

 #Sys.sleep(19)
}

View(movie19)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie20 <- data.frame()

for (page in 1:5) {
  link20 <- paste0("https://www.imdb.com/title/tt0114369/reviews?ref_=tt_urv", page)
  session1 <- bow(link20, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "Se7en"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie20 <- rbind(movie20, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(20)
}

View(movie20)

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

```r
library(selectr)
movie21 <- data.frame()

for (page in 1:5) {
  link21 <- paste0("https://www.imdb.com/title/tt0038650/reviews?ref_=tt_urv", page)
  session1 <- bow(link21, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "It's a Wonderful Life"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie21 <- rbind(movie21, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(21)
}

View(movie21)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie22 <- data.frame()

for (page in 1:5) {
  link22 <- paste0("https://www.imdb.com/title/tt0816692/reviews?ref_=tt_urv", page)
  session1 <- bow(link22, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "Interstellar"
```

```r
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie22 <- rbind(movie22, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(22)
}

View(movie22)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie23 <- data.frame()

for (page in 1:5) {
  link23 <- paste0("https://www.imdb.com/title/tt0047478/reviews?ref_=tt_urv", page)
  session1 <- bow(link23, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "Seven Samurai"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie23 <- rbind(movie23, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
```

```r
      type_of_movie = scrapedType
  ))

  #Sys.sleep(23)
}

View(movie23)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie24 <- data.frame()

for (page in 1:5) {
  link24 <- paste0("https://www.imdb.com/title/tt0102926/reviews?ref_=tt_urv", page)
  session1 <- bow(link24, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "The Silence of the Lambs"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie24 <- rbind(movie24, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(24)
}

View(movie24)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie25 <- data.frame()
```

```r
for (page in 1:5) {
  link25 <- paste0("https://www.imdb.com/title/tt0120815/reviews?ref_=tt_urv", page)
  session1 <- bow(link25, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "Saving Private Ryan"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie25 <- rbind(movie25, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(25)
}

View(movie25)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie26 <- data.frame()

for (page in 1:5) {
  link26 <- paste0("https://www.imdb.com/title/tt0317248/reviews?ref_=tt_urv", page)
  session1 <- bow(link26, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "City of God"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
```

```r
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie26 <- rbind(movie26, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(26)
}

View(movie26)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie27 <- data.frame()

for (page in 1:5) {
  link27 <- paste0("https://www.imdb.com/title/tt0118799/reviews?ref_=tt_urv", page)
  session1 <- bow(link27, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "Life Is Beautiful"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie27 <- rbind(movie27, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))
```

```
    #Sys.sleep(27)
}

View(movie27)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie28 <- data.frame()

for (page in 1:5) {
  link28 <- paste0("https://www.imdb.com/title/tt0120689/reviews?ref_=tt_urv", page)
  session1 <- bow(link28, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "The Green Mile"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie28 <- rbind(movie28, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(28)
}

View(movie28)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie29 <- data.frame()

for (page in 1:5) {
  link29 <- paste0("https://www.imdb.com/title/tt0076759/reviews?ref_=tt_urv", page)
  session1 <- bow(link29, user_agent = "Educational Purpose")
```

```r
scrapeNodes <- function(selector) {
  scrape(session1) %>%
    html_nodes(selector) %>%
    html_text(trim = TRUE)
}

movieName <- "Star Wars: Episode IV - A New Hope"
scrapedTitle <- scrapeNodes("a.title")[1:10]
scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
scrapedDate <- scrapeNodes("span.review-date")[1:10]
scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
scrapedType <- scrapeNodes("Type of Movie")[1:10]

movie29 <- rbind(movie29, data.frame(
  movie_name = movieName,
  title = scrapedTitle,
  reviewer = scrapedReviewer,
  review = scrapedReview,
  date = scrapedDate,
  ratings = scrapedRating,
  type_of_movie = scrapedType
))

#Sys.sleep(29)
}

View(movie29)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie30 <- data.frame()

for (page in 1:5) {
  link30 <- paste0("https://www.imdb.com/title/tt0103064/reviews?ref_=tt_urv", page)
  session1 <- bow(link30, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "Terminator 2: Judgment Day"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]
```

```r
  movie30 <- rbind(movie30, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(30)
}

View(movie30)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie31 <- data.frame()

for (page in 1:5) {
  link31 <- paste0("https://www.imdb.com/title/tt0088763/reviews?ref_=tt_urv", page)
  session1 <- bow(link31, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "Back to the Future"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie31 <- rbind(movie31, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(31)
}
```

```
View(movie31)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie32 <- data.frame()

for (page in 1:5) {
  link32 <- paste0("https://www.imdb.com/title/tt0088763/reviews?ref_=tt_urv", page)
  session1 <- bow(link32, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "Back to the Future"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie32 <- rbind(movie32, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(32)
}

View(movie32)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie33 <- data.frame()

for (page in 1:5) {
  link33 <- paste0("https://www.imdb.com/title/tt0325980/reviews?ref_=tt_urv", page)
  session1 <- bow(link33, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
```

```
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "Pirates of the Caribbean: The Curse of the Black Pearl"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie33 <- rbind(movie33, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(33)
}

View(movie33)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie34 <- data.frame()

for (page in 1:5) {
  link34 <- paste0("https://www.imdb.com/title/tt0383574/reviews?ref_=tt_urv", page)
  session1 <- bow(link34, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "Pirates of the Caribbean: Dead Man's Chest"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie34 <- rbind(movie34, data.frame(
    movie_name = movieName,
```

```r
      title = scrapedTitle,
      reviewer = scrapedReviewer,
      review = scrapedReview,
      date = scrapedDate,
      ratings = scrapedRating,
      type_of_movie = scrapedType
  ))

  #Sys.sleep(34)
}

View(movie34)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie35 <- data.frame()

for (page in 1:5) {
  link35 <- paste0("https://www.imdb.com/title/tt0449088/reviews?ref_=tt_urv", page)
  session1 <- bow(link35, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "Pirates of the Caribbean: At World's End"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie35 <- rbind(movie35, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(35)
}

View(movie35)

library(dplyr)
library(rvest)
```

```r
library(polite)
library(httr)
library(selectr)
movie36 <- data.frame()

for (page in 1:5) {
  link36 <- paste0("https://www.imdb.com/title/tt1298650/reviews?ref_=tt_urv", page)
  session1 <- bow(link36, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "Pirates of the Caribbean: On Stranger Tides"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie36 <- rbind(movie36, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(36)
}

View(movie36)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie37 <- data.frame()

for (page in 1:5) {
  link37 <- paste0("https://www.imdb.com/title/tt1790809/reviews?ref_=tt_urv", page)
  session1 <- bow(link37, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }
```

```
    movieName <- "Pirates of the Caribbean: Dead Men Tell No Tales"
    scrapedTitle <- scrapeNodes("a.title")[1:10]
    scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
    scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
    scrapedDate <- scrapeNodes("span.review-date")[1:10]
    scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
    scrapedType <- scrapeNodes("Type of Movie")[1:10]

    movie37 <- rbind(movie37, data.frame(
      movie_name = movieName,
      title = scrapedTitle,
      reviewer = scrapedReviewer,
      review = scrapedReview,
      date = scrapedDate,
      ratings = scrapedRating,
      type_of_movie = scrapedType
    ))

    #Sys.sleep(37)
}

View(movie37)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie38 <- data.frame()

for (page in 1:5) {
  link38 <- paste0("https://www.imdb.com/title/tt0241527/reviews?ref_=tt_urv", page)
  session1 <- bow(link38, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

    movieName <- "Harry Potter and the Sorcerer's Stone"
    scrapedTitle <- scrapeNodes("a.title")[1:10]
    scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
    scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
    scrapedDate <- scrapeNodes("span.review-date")[1:10]
    scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
    scrapedType <- scrapeNodes("Type of Movie")[1:10]

    movie38 <- rbind(movie38, data.frame(
      movie_name = movieName,
      title = scrapedTitle,
      reviewer = scrapedReviewer,
      review = scrapedReview,
```

```r
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(38)
}

View(movie38)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie39 <- data.frame()

for (page in 1:5) {
  link39 <- paste0("https://www.imdb.com/title/tt0295297/reviews?ref_=tt_urv", page)
  session1 <- bow(link39, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "Harry Potter and the Chamber of Secrets"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie39 <- rbind(movie39, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(39)
}

View(movie39)

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

```r
movie40 <- data.frame()

for (page in 1:5) {
  link40 <- paste0("https://www.imdb.com/title/tt0304141/reviews?ref_=tt_urv", page)
  session1 <- bow(link40, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "Harry Potter and the Prisoner of Azkaban"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie40 <- rbind(movie40, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(40)
}

View(movie40)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie41 <- data.frame()

for (page in 1:5) {
  link41 <- paste0("https://www.imdb.com/title/tt0330373/reviews?ref_=tt_urv", page)
  session1 <- bow(link41, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "Harry Potter and the Goblet of Fire"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
```

```r
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie41 <- rbind(movie41, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(41)
}

View(movie41)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie42 <- data.frame()

for (page in 1:5) {
  link42 <- paste0("https://www.imdb.com/title/tt0373889/reviews?ref_=tt_urv", page)
  session1 <- bow(link42, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "Harry Potter and the Order of the Phoenix"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie42 <- rbind(movie42, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
```

```r
  ))

  #Sys.sleep(42)
}

View(movie42)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie43 <- data.frame()

for (page in 1:5) {
  link43 <- paste0("https://www.imdb.com/title/tt0417741/reviews?ref_=tt_urv", page)
  session1 <- bow(link43, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "Harry Potter and the Half-Blood Prince"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie43 <- rbind(movie43, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(43)
}

View(movie43)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie44 <- data.frame()

for (page in 1:5) {
```

```r
  link44 <- paste0("https://www.imdb.com/title/tt0926084/reviews?ref_=tt_urv", page)
  session1 <- bow(link44, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "Harry Potter and the Deathly Hallows: Part 1"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie44 <- rbind(movie44, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(44)
}

View(movie44)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie45 <- data.frame()

for (page in 1:5) {
  link45 <- paste0("https://www.imdb.com/title/tt1201607/reviews?ref_=tt_urv", page)
  session1 <- bow(link45, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "Harry Potter and the Deathly Hallows: Part 2"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
```

```r
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie45 <- rbind(movie45, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(45)
}

View(movie45)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie46 <- data.frame()

for (page in 1:5) {
  link46 <- paste0("https://www.imdb.com/title/tt1049413/reviews?ref_=tt_urv", page)
  session1 <- bow(link46, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "Up"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie46 <- rbind(movie46, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(46)
```

```r
}

View(movie46)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie47 <- data.frame()

for (page in 1:5) {
  link47 <- paste0("https://www.imdb.com/title/tt3659388/reviews?ref_=tt_urv", page)
  session1 <- bow(link47, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "The Martian"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie47 <- rbind(movie47, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(47)
}

View(movie47)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie48 <- data.frame()

for (page in 1:5) {
  link48 <- paste0("https://www.imdb.com/title/tt0099487/reviews?ref_=tt_urv", page)
  session1 <- bow(link48, user_agent = "Educational Purpose")
```

```r
  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "Edward Scissorhands"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie48 <- rbind(movie48, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(48)
}

View(movie48)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie49 <- data.frame()

for (page in 1:5) {
  link49 <- paste0("https://www.imdb.com/title/tt0264464/reviews?ref_=tt_urv", page)
  session1 <- bow(link49, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "Catch Me If You Can"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]
```

```
  movie49 <- rbind(movie49, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(49)
}

View(movie49)

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie50 <- data.frame()

for (page in 1:5) {
  link50 <- paste0("https://www.imdb.com/title/tt0119654/reviews?ref_=tt_urv", page)
  session1 <- bow(link50, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  movieName <- "Men in Black"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes("div.collapsable:nth-of-type(n+2) div.text")[1:10]
  scrapedDate <- scrapeNodes("span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("Type of Movie")[1:10]

  movie50 <- rbind(movie50, data.frame(
    movie_name = movieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movie = scrapedType
  ))

  #Sys.sleep(50)
}

View(movie50)
```

```
allMovies = data.frame();

allMovies <- rbind(allMovies, movie1, movie2, movie3, movie4, movie5, movie6, movie7, movie8, movie9, m

#View(allMovies)

write.csv(allMovies, "All Reviews.csv")
```