

Lab Exercise 2

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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/tt6718170/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 Super Mario Bros. Movie (2023)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

  movie1 <- rbind(movie1, data.frame(
    prod_name = MovieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movies = scrapedType
  ))
}
```

```

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

movie2 <- data.frame()

for (page in 1:5) {
link2 <- paste0("https://www.imdb.com/title/tt10366206/reviews?ref_=tt_urv", page)
  session2 <- bow(link2, user_agent = "Educational Purpose")

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

  MovieName <- "John Wick: Chapter 4 (2023)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

  movie2 <- rbind(movie2, data.frame(
    prod_name = MovieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movies = scrapedType
  ))
}

```

```

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/tt14509110/reviews?ref_=tt_urv", page)

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session3 <- bow(link3, user_agent = "Educational Purpose")

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

MovieName <- "No One Will Save You (2023"
scrapedTitle <- scrapeNodes("a.title")[1:10]
scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

movie3 <- rbind(movie3, data.frame(
  prod_name = MovieName,
  title = scrapedTitle,
  reviewer = scrapedReviewer,
  review = scrapedReview,
  date = scrapedDate,
  ratings = scrapedRating,
  type_of_movies = scrapedType
))

}

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/tt18257464/reviews?ref_=tt_urv", page)
  session4 <- bow(link4, user_agent = "Educational Purpose")

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

  MovieName <- "Polite Society (2023)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]

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scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

movie4 <- rbind(movie4, data.frame(
  prod_name = MovieName,
  title = scrapedTitle,
  reviewer = scrapedReviewer,
  review = scrapedReview,
  date = scrapedDate,
  ratings = scrapedRating,
  type_of_movies = scrapedType
))

}

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/tt12747748/reviews?ref_=tt_urv", page)
session5 <- bow(link5, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session5) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  MovieName <- "Polite Society (2023)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsable div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

movie5 <- rbind(movie5, data.frame(
  prod_name = MovieName,
  title = scrapedTitle,
  reviewer = scrapedReviewer,
  review = scrapedReview,
  date = scrapedDate,

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    ratings = scrapedRating,
    type_of_movies = scrapedType
  ))
}

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

movie6 <- data.frame()

for (page in 1:5) {
  link6 <- paste0("https://www.imdb.com/title/tt17351924/reviews?ref_=tt_urv", page)
  session6 <- bow(link6, user_agent = "Educational Purpose")

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

  MovieName <- "Saltburn (2023)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsable div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

  movie6 <- rbind(movie6, data.frame(
    prod_name = MovieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movies = scrapedType
  ))
}

library(dplyr)
library(rvest)
library(polite)

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library(httr)
library(selectr)
movie7 <- data.frame()

for (page in 1:5) {
link7 <- paste0("https://www.imdb.com/title/tt16419074/reviews?ref_=tt_urv", page)
  session7 <- bow(link7, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session7) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  MovieName <- "Air (I) (2023)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

  movie7 <- rbind(movie7, data.frame(
    prod_name = MovieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movies = scrapedType
  ))

}

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/tt9603212/reviews?ref_=tt_urv", page)
  session8 <- bow(link8, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session8) %>%
      html_nodes(selector) %>%

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    html_text(trim = TRUE)
  }

  MovieName <- "Mission: Impossible - Dead Reckoning Part One (2023)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

  movie8 <- rbind(movie8, data.frame(
    prod_name = MovieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movies = scrapedType
  ))

}

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/tt18346624/reviews?ref_=tt_urv", page)
  session9 <- bow(link9, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session9) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  MovieName <- "Murdercise (2023)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

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movie9 <- rbind(movie9, data.frame(
  prod_name = MovieName,
  title = scrapedTitle,
  reviewer = scrapedReviewer,
  review = scrapedReview,
  date = scrapedDate,
  ratings = scrapedRating,
  type_of_movies = scrapedType
))

}

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

movie10 <- data.frame()

for (page in 1:5) {
link10 <- paste0("https://www.imdb.com/title/tt13287846/reviews?ref_=tt_urv", page)
session10 <- bow(link10, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session10) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  MovieName <- "Napoleon (2023)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

movie10 <- rbind(movie10, data.frame(
  prod_name = MovieName,
  title = scrapedTitle,
  reviewer = scrapedReviewer,
  review = scrapedReview,
  date = scrapedDate,
  ratings = scrapedRating,
  type_of_movies = scrapedType
))

```



```

}

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/tt12263384/reviews?ref_=tt_urv", page)
  session11 <- bow(link11, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session11) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  MovieName <- "Extraction II (2023)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsable div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

  movie11 <- rbind(movie11, data.frame(
    prod_name = MovieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movies = scrapedType
  ))
}

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/tt8760708/reviews?ref_=tt_urv", page)

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session12 <- bow(link12, user_agent = "Educational Purpose")

scrapeNodes <- function(selector) {
  scrape(session12) %>%
    html_nodes(selector) %>%
    html_text(trim = TRUE)
}

MovieName <- "M3gan (2022)"
scrapedTitle <- scrapeNodes("a.title")[1:10]
scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
scrapedReview <- scrapeNodes(".collapsable div.text")[1:10]
scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

movie12 <- rbind(movie12, data.frame(
  prod_name = MovieName,
  title = scrapedTitle,
  reviewer = scrapedReviewer,
  review = scrapedReview,
  date = scrapedDate,
  ratings = scrapedRating,
  type_of_movies = scrapedType
))

}

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/tt5537002/reviews?ref_=tt_urv", page)
  session13 <- bow(link13, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session13) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  MovieName <- "Killers of the Flower Moon (2023)"

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scrapedTitle <- scrapeNodes("a.title")[1:10]
scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

movie13 <- rbind(movie13, data.frame(
  prod_name = MovieName,
  title = scrapedTitle,
  reviewer = scrapedReviewer,
  review = scrapedReview,
  date = scrapedDate,
  ratings = scrapedRating,
  type_of_movies = scrapedType
))

}

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/tt8589698/reviews?ref_=tt_urv", page)
  session14 <- bow(link14, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session14) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  MovieName <- "Teenage Mutant Ninja Turtles: Mutant Mayhem (2023)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

  movie14 <- rbind(movie14, data.frame(
    prod_name = MovieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,

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        date = scrapedDate,
        ratings = scrapedRating,
        type_of_movies = scrapedType
    ))
}

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/tt1951266/reviews?ref_=tt_urv", page)
  session15 <- bow(link15, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session15) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  MovieName <- "The Hunger Games: Mockingjay - Part 2 (2015)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

  movie15 <- rbind(movie15, data.frame(
    prod_name = MovieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movies = scrapedType
  ))
}

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

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library(selectr)

movie16 <- data.frame()

for (page in 1:5) {
  link16 <- paste0("https://www.imdb.com/title/tt21113540/reviews?ref_=tt_urv", page)
  session16 <- bow(link16, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session16) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  MovieName <- "El Conde (2023)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsable div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

  movie16 <- rbind(movie16, data.frame(
    prod_name = MovieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movies = scrapedType
  ))

}

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

movie17 <- data.frame()

for (page in 1:5) {
  link17 <- paste0("https://www.imdb.com/title/tt14846026/reviews?ref_=tt_urv", page)
  session17 <- bow(link17, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session17) %>%

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

    MovieName <- "Sisu (2022)"
    scrapedTitle <- scrapeNodes("a.title")[1:10]
    scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
    scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
    scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
    scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
    scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

    movie17 <- rbind(movie17, data.frame(
      prod_name = MovieName,
      title = scrapedTitle,
      reviewer = scrapedReviewer,
      review = scrapedReview,
      date = scrapedDate,
      ratings = scrapedRating,
      type_of_movies = scrapedType
    ))

  }

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/tt2402927/reviews?ref_=tt_urv", page)
  session18 <- bow(link18, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session18) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  MovieName <- "Carol(2015)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

```

```

movie18 <- rbind(movie18, data.frame(
  prod_name = MovieName,
  title = scrapedTitle,
  reviewer = scrapedReviewer,
  review = scrapedReview,
  date = scrapedDate,
  ratings = scrapedRating,
  type_of_movies = scrapedType
))

}

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/tt16431882/reviews?ref_=tt_urv", page)
  session19 <- bow(link19, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session19) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  MovieName <- "Brooklyn 45 (2023)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

  movie19 <- rbind(movie19, data.frame(
    prod_name = MovieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movies = scrapedType
  ))

}

```

```

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/tt2527336/reviews?ref_=tt_urv", page)
  session20 <- bow(link20, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session20) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  MovieName <- "Star Wars: Episode VIII - The Last Jedi (2017)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsable div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

  movie20 <- rbind(movie20, data.frame(
    prod_name = MovieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movies = scrapedType
  ))
}

```

```

library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
movie21 <- data.frame()

for (page in 1:5) {
  link21 <- paste0("https://www.imdb.com/title/tt8310486/reviews?ref_=tt_urv", page)
  session21 <- bow(link21, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session21) %>%

```



```

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

    MovieName <- " Miller's Girl (2023)"
    scrapedTitle <- scrapeNodes("a.title")[1:10]
    scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
    scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
    scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
    scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
    scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

    movie21 <- rbind(movie21, data.frame(
      prod_name = MovieName,
      title = scrapedTitle,
      reviewer = scrapedReviewer,
      review = scrapedReview,
      date = scrapedDate,
      ratings = scrapedRating,
      type_of_movies = scrapedType
    ))

  }

  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/tt1448754/reviews?ref_=tt_urv", page)
    session22 <- bow(link22, user_agent = "Educational Purpose")

    scrapeNodes <- function(selector) {
      scrape(session22) %>%
        html_nodes(selector) %>%
        html_text(trim = TRUE)
    }

    MovieName <- "Thanksgiving (2023)"
    scrapedTitle <- scrapeNodes("a.title")[1:10]
    scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
    scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
    scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
    scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
    scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]
  }

```

```

movie22 <- rbind(movie22, data.frame(
  prod_name = MovieName,
  title = scrapedTitle,
  reviewer = scrapedReviewer,
  review = scrapedReview,
  date = scrapedDate,
  ratings = scrapedRating,
  type_of_movies = scrapedType
))

}

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/tt21192142/reviews?ref_=tt_urv", page)
  session23 <- bow(link23, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session23) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  MovieName <- "All of Us Strangers (2023)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

  movie23 <- rbind(movie23, data.frame(
    prod_name = MovieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movies = scrapedType
  ))
}

```

```

}

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/tt14849194/reviews?ref_=tt_urv", page)
  session24 <- bow(link24, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session24) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  MovieName <- "The Holdovers (2023)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

  movie24 <- rbind(movie24, data.frame(
    prod_name = MovieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movies = scrapedType
  ))
}

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

movie25 <- data.frame()

for (page in 1:5) {
  link25 <- paste0("https://www.imdb.com/title/tt21064584/reviews?ref_=tt_urv", page)

```

```

session25 <- bow(link25, user_agent = "Educational Purpose")

scrapeNodes <- function(selector) {
  scrape(session25) %>%
    html_nodes(selector) %>%
    html_text(trim = TRUE)
}

MovieName <- "The Iron Claw (2023)"
scrapedTitle <- scrapeNodes("a.title")[1:10]
scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

movie25 <- rbind(movie25, data.frame(
  prod_name = MovieName,
  title = scrapedTitle,
  reviewer = scrapedReviewer,
  review = scrapedReview,
  date = scrapedDate,
  ratings = scrapedRating,
  type_of_movies = scrapedType
))

}

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/tt19864802/reviews?ref_=tt_urv", page)
  session26 <- bow(link26, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session26) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  MovieName <- "Land of Bad (2024)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]

```

```

scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

movie26 <- rbind(movie26, data.frame(
  prod_name = MovieName,
  title = scrapedTitle,
  reviewer = scrapedReviewer,
  review = scrapedReview,
  date = scrapedDate,
  ratings = scrapedRating,
  type_of_movies = scrapedType
))

}

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/tt1160419/reviews?ref_=tt_urv", page)
  session27 <- bow(link27, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session27) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  MovieName <- "Dune (2021)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

  movie27 <- rbind(movie27, data.frame(
    prod_name = MovieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,

```

```

    ratings = scrapedRating,
    type_of_movies = scrapedType
  ))
}

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/tt26047818/reviews?ref_=tt_urv", page)
  session28 <- bow(link28, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session28) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  MovieName <- "Anyone But You (2023)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

  movie28 <- rbind(movie28, data.frame(
    prod_name = MovieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movies = scrapedType
  ))
}

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/tt14230458/reviews?ref_=tt_urv", page)
  session29 <- bow(link29, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session29) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  MovieName <- "Poor Things(2023)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsable div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

  movie29 <- rbind(movie29, data.frame(
    prod_name = MovieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movies = scrapedType
  ))

}

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/tt11057302/reviews?ref_=tt_urv", page)
  session30 <- bow(link30, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session30) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }
}

```

```

MovieName <- "Madame Web(2024)"
scrapedTitle <- scrapeNodes("a.title")[1:10]
scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

movie30 <- rbind(movie30, data.frame(
  prod_name = MovieName,
  title = scrapedTitle,
  reviewer = scrapedReviewer,
  review = scrapedReview,
  date = scrapedDate,
  ratings = scrapedRating,
  type_of_movies = scrapedType
))

}

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/tt6710474/reviews?ref_=tt_urv", page)
  session31 <- bow(link31, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session31) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  MovieName <- " Everything Everywhere All at Once (2022)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

  movie31 <- rbind(movie31, data.frame(
    prod_name = MovieName,
    title = scrapedTitle,

```



```

    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movies = scrapedType
  ))
}

movie32 <- data.frame()

for (page in 1:5) {
  link32 <- paste0("https://www.imdb.com/title/tt1745960/reviews?ref_=tt_urv", page)
  session32 <- bow(link32, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session32) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  MovieName <- "Everything Everywhere All at Once (2022)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

  movie32 <- rbind(movie32, data.frame(
    prod_name = MovieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movies = scrapedType
  ))
}

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/tt11127680/reviews?ref_=tt_urv", page)
  session33 <- bow(link33, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session33) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  MovieName <- "Boiling Point (I) (2021)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

  movie33 <- rbind(movie33, data.frame(
    prod_name = MovieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movies = scrapedType
  ))

}

movie34 <- data.frame()

for (page in 1:5) {
  link34 <- paste0("https://www.imdb.com/title/tt1877830/reviews?ref_=tt_urv", page)
  session34 <- bow(link34, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session34) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  MovieName <- "The Batman (2022)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]

```

```

scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

movie34 <- rbind(movie34, data.frame(
  prod_name = MovieName,
  title = scrapedTitle,
  reviewer = scrapedReviewer,
  review = scrapedReview,
  date = scrapedDate,
  ratings = scrapedRating,
  type_of_movies = scrapedType
))

}

```

```

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/tt11813216/reviews?ref_=tt_urv", page)
  session35 <- bow(link35, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session35) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  MovieName <- "The Banshees of Inisherin (2022)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

```

```

movie35 <- rbind(movie35, data.frame(
  prod_name = MovieName,
  title = scrapedTitle,
  reviewer = scrapedReviewer,
  review = scrapedReview,

```

```

    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movies = scrapedType
  ))
}

movie36 <- data.frame()

for (page in 1:5) {
  link36 <- paste0("https://www.imdb.com/title/tt19770238/reviews?ref_=tt_urv", page)
  session36 <- bow(link36, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session36) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  MovieName <- " Aftersun (II) (2022)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

  movie36 <- rbind(movie36, data.frame(
    prod_name = MovieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movies = scrapedType
  ))
}

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/tt11564570/reviews?ref_=tt_urv", page)
  session37 <- bow(link37, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session37) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  MovieName <- "Glass Onion (2022)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsable div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

  movie37 <- rbind(movie37, data.frame(
    prod_name = MovieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movies = scrapedType
  ))

}

```

```
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)

```

```
movie38 <- data.frame()
```

```

for (page in 1:5) {
  link38 <- paste0("https://www.imdb.com/title/tt14444726/reviews?ref_=tt_urv", page)
  session38 <- bow(link38, user_agent = "Educational Purpose")
}

```

```

scrapeNodes <- function(selector) {
  scrape(session38) %>%
    html_nodes(selector) %>%
    html_text(trim = TRUE)
}

MovieName <- "Tár (2022)"
scrapedTitle <- scrapeNodes("a.title")[1:10]
scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

movie38 <- rbind(movie38, data.frame(
  prod_name = MovieName,
  title = scrapedTitle,
  reviewer = scrapedReviewer,
  review = scrapedReview,
  date = scrapedDate,
  ratings = scrapedRating,
  type_of_movies = scrapedType
))

}

```

```

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/tt14208870/reviews?ref_=tt_urv", page)
  session39 <- bow(link39, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session39) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  MovieName <- "The Fabelmans (2022)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]

```

```

scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

movie39 <- rbind(movie39, data.frame(
  prod_name = MovieName,
  title = scrapedTitle,
  reviewer = scrapedReviewer,
  review = scrapedReview,
  date = scrapedDate,
  ratings = scrapedRating,
  type_of_movies = scrapedType
))

}

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

movie40 <- data.frame()

for (page in 1:5) {
  link40 <- paste0("https://www.imdb.com/title/tt1630029/reviews?ref_=tt_urv", page)
  session40 <- bow(link40, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session40) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  MovieName <- " Avatar: The Way of Water (2022)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

  movie40 <- rbind(movie40, data.frame(
    prod_name = MovieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movies = scrapedType
  ))
}

```

```

))

}

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/tt12477480/reviews?ref_=tt_urv", page)
  session41 <- bow(link41, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session41) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  MovieName <- " Decision to Leave (2022)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

  movie41 <- rbind(movie41, data.frame(
    prod_name = MovieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movies = scrapedType
  ))
}

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/tt9764362/reviews?ref_=tt_urv", page)
  session42 <- bow(link42, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session42) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  MovieName <- "The Menu (2022)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsable div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

  movie42 <- rbind(movie42, data.frame(
    prod_name = MovieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movies = scrapedType
  ))
}

```

```

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/tt13880104/reviews?ref_=tt_urv", page)
  session43 <- bow(link43, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session43) %>%
      html_nodes(selector) %>%

```

```

      html_text(trim = TRUE)
    }

    MovieName <- " Happening (2021)"
    scrapedTitle <- scrapeNodes("a.title")[1:10]
    scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
    scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
    scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
    scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
    scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

    movie43 <- rbind(movie43, data.frame(
      prod_name = MovieName,
      title = scrapedTitle,
      reviewer = scrapedReviewer,
      review = scrapedReview,
      date = scrapedDate,
      ratings = scrapedRating,
      type_of_movies = scrapedType
    ))

  }

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

  movie44 <- data.frame()

  for (page in 1:5) {
    link44 <- paste0("https://www.imdb.com/title/tt10370710/reviews?ref_=tt_urv", page)
    session44 <- bow(link44, user_agent = "Educational Purpose")

    scrapeNodes <- function(selector) {
      scrape(session44) %>%
        html_nodes(selector) %>%
        html_text(trim = TRUE)
    }

    MovieName <- "The Worst Person in the World (2021)"
    scrapedTitle <- scrapeNodes("a.title")[1:10]
    scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
    scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
    scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
    scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
    scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]
  }

```

```

movie44 <- rbind(movie44, data.frame(
  prod_name = MovieName,
  title = scrapedTitle,
  reviewer = scrapedReviewer,
  review = scrapedReview,
  date = scrapedDate,
  ratings = scrapedRating,
  type_of_movies = scrapedType
))

}

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/tt11138512/reviews?ref_=tt_urv", page)
  session45 <- bow(link45, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session45) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  MovieName <- "The Northman (2022)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

  movie45 <- rbind(movie45, data.frame(
    prod_name = MovieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movies = scrapedType
  ))

}

```

```

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/tt1488589/reviews?ref_=tt_urv", page)
  session46 <- bow(link46, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session46) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  MovieName <- "Guillermo del Toro's Pinocchio (2022)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

  movie46 <- rbind(movie46, data.frame(
    prod_name = MovieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movies = scrapedType
  ))
}

```

```

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/tt11225756/reviews?ref_=tt_urv", page)
  session47 <- bow(link47, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session47) %>%

```

```

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

    MovieName <- "The Lost Leonardo (2021)"
    scrapedTitle <- scrapeNodes("a.title")[1:10]
    scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
    scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
    scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
    scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
    scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

    movie47 <- rbind(movie47, data.frame(
      prod_name = MovieName,
      title = scrapedTitle,
      reviewer = scrapedReviewer,
      review = scrapedReview,
      date = scrapedDate,
      ratings = scrapedRating,
      type_of_movies = scrapedType
    ))

  }

  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/tt10954984/reviews?ref_=tt_urv", page)
    session48 <- bow(link48, user_agent = "Educational Purpose")

    scrapeNodes <- function(selector) {
      scrape(session48) %>%
        html_nodes(selector) %>%
        html_text(trim = TRUE)
    }

    MovieName <- "Nope (2022)"
    scrapedTitle <- scrapeNodes("a.title")[1:10]
    scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
    scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
    scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
    scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
    scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

    movie48 <- rbind(movie48, data.frame(
      prod_name = MovieName,

```

```

        title = scrapedTitle,
        reviewer = scrapedReviewer,
        review = scrapedReview,
        date = scrapedDate,
        ratings = scrapedRating,
        type_of_movies = scrapedType
    ))
}

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/tt3704428/reviews?ref_=tt_urv", page)
  session49 <- bow(link49, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session49) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  MovieName <- "Elvis (2022)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsible div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

  movie49 <- rbind(movie49, data.frame(
    prod_name = MovieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movies = scrapedType
  ))
}

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/tt3661210/reviews?ref_=tt_urv", page)
  session50 <- bow(link50, user_agent = "Educational Purpose")

  scrapeNodes <- function(selector) {
    scrape(session50) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }

  MovieName <- " The Dig (2021)"
  scrapedTitle <- scrapeNodes("a.title")[1:10]
  scrapedReviewer <- scrapeNodes(".display-name-link a")[1:10]
  scrapedReview <- scrapeNodes(".collapsable div.text")[1:10]
  scrapedDate <- scrapeNodes("div.lister-item:nth-of-type(n+2) span.review-date")[1:10]
  scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
  scrapedType <- scrapeNodes("div.ipc-chip-list--baseAlt.ipc-chip-list")[1:10]

  movie50 <- rbind(movie50, data.frame(
    prod_name = MovieName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_movies = scrapedType
  ))

}

movie_rev <- data.frame()

for (i in 1:50) {
  assign(paste0("movie", i), get(paste0("movie", i)))
  movie_rev <- bind_rows(movie_rev, get(paste0("movie", i)))
}

write.csv(movie_rev, file = "Movie Reviews.csv", row.names = FALSE)
#View(movie_rev)

```