## RWorksheet#5\_group6(Vicinte, Montealto, Eusuya)

### Group6

#### 2024-12-06

```
#5a.
install.packages("rvest")
## Error in install.packages : Updating loaded packages
install.packages("polite")
## Error in install.packages : Updating loaded packages
library(rvest)
library(polite)
\#product_1
# Read the HTML file
url <- "https://www.amazon.com/s?bbn=2562090011&rh=n%3A2562090011%2Cn%3A15684181&dc&qid=1733043876&rnid
session <- polite::bow(url,</pre>
                                          user_agent = "Educational Purpose")
")"
## [1] ")"
session
## <polite session> https://www.amazon.com/s?bbn=2562090011&rh=n%3A2562090011%2Cn%3A15684181&dc&qid=173
                   User-agent: Educational Purpose
                   robots.txt: 138 rules are defined for 5 bots
##
                 Crawl delay: 5 sec
              The path is scrapable for this user-agent
session_page <- scrape(session)</pre>
# Find all div elements with the specified class
div_elements <- html_nodes(session_page, 'div.sg-col-4-of-24.sg-col-4-of-12.s-result-item.s-asin.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-12.s-result-item.s-asin.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4-of-24.sg-col-4
# Create empty vectors to store data
links <- character()</pre>
descriptions <- character()</pre>
prices <- character()</pre>
ratings <- character()</pre>
for (div_element in div_elements) {
      \textit{\# Find the a element with class="a-link-normal s-no-outline" and get the link} \\
```

```
a_element <- html_node(div_element, 'a.a-link-normal.s-no-outline')</pre>
  link <- ifelse(!is.na(a_element), paste0("https://amazon.com", html_attr(a_element, "href")), '')</pre>
  # Find the span element with class="a-size-base-plus a-color-base a-text-normal" and get the title
  description_element <- html_node(div_element, 'span.a-size-base-plus.a-color-base.a-text-normal')
  description <- ifelse(!is.na(description_element), html_text(description_element), '')</pre>
  # Find the span element with class="a-price-whole" and get the price
  price element <- html node(div element, 'span.a-price-whole')</pre>
  price <- ifelse(!is.na(price_element), html_text(price_element), '')</pre>
  # Find the span element with class="a-icon-alt" and get the ratings
  rating_element <- html_node(div_element, 'span.a-icon-alt')</pre>
  rating <- ifelse(!is.na(rating_element), html_text(rating_element), '')</pre>
  rating <- gsub("out of 5 stars","",rating, fixed=TRUE)</pre>
  # Append data to vectors
 links <- c(links, link)</pre>
  descriptions <- c(descriptions, description)</pre>
  prices <- c(prices, price)</pre>
  ratings <- c(ratings, rating)</pre>
}
# Create a data frame
automotive <- data.frame(Links = links,
                          Descriptions = descriptions,
                          Price = prices,
                          Rating = ratings)
automotive
##
## 1
                                                                                     https://amazon.com/Cl
## 2
                                                                                                  https://a
## 3
                                                                                                   https://
                    https://amazon.com/LISEN-Retractable-Charger-Charging-Accessories/dp/B0D4215HCX/ref
## 4
## 5
                                                                                        https://amazon.com/
## 6
              https://amazon.com/MOLOSLEEVE-Keychain-Anti-Scratch-Airtags-Accessories/dp/BOCGDDXY11/ref
## 7
                 https://amazon.com/Miracase-Holders-Universal-Automobile-Smartphones/dp/BOCHYBKQPM/ref
## 8
      https://amazon.com/Upgraded%E3%80%91Cleaning-Car-Universal-Detailing-Automotive/dp/B09VKPZRN4/ref
## 9
                https://amazon.com/Qifutan-Windshield-Dashboard-Automobile-Smartphone/dp/BOCHS69JW3/ref
## 10
              https://amazon.com/Tough-Headwear-Balaclava-Snowboarding-Motorcycling/dp/B019F18TX4/ref=s
## 11
                 https://amazon.com/AstroAI-Portable-Compressor-Inflator-Motorcycle/dp/B07QR4Q42L/ref=s
## 12
                      https://amazon.com/Holder-Keychain-Cases-Anti-Scratch-Silicone/dp/B0CQXC6WS5/ref=s:
## 13
           https://amazon.com/NOCO-GENIUS1-Fully-Automatic-Temperature-Compensation/dp/B07W46BX31/ref=s
## 14
                                                                                                  https://a
## 15
                                  https://amazon.com/HOTOR-Car-Trash-Storage-Pockets/dp/BO7VGRVKSN/ref=s:
## 16
                                                                                    https://amazon.com/Etek
## 17
                                                                                          https://amazon.com
## 18
                                                                                        https://amazon.com/
## 19
                                                                                                    https:/
## 20
                                                                                           https://amazon.c
```

```
## 21
                                                                                            https://amazon.
## 22
                                                                                                   https://
## 23
                     https://amazon.com/AstroAI-Detachable-Scraper-Ergonomic-Removal/dp/B07V37GVY9/ref=s:
## 24
                         https://amazon.com/HOTOR-Trunk-Organizer-Car-Large-Capacity/dp/BOCM6KVCSX/ref=s
##
      Descriptions Price Rating
                            4.1
## 1
                       5.
## 2
                      69.
                            4.3
## 3
                      99.
                            4.6
## 4
                      19.
                            4.6
                            4.2
## 5
                     123.
## 6
                       4.
                            4.6
## 7
                      15.
                            4.3
## 8
                       5.
                            4.1
## 9
                      12.
                            4.3
## 10
                      19.
                            4.5
## 11
                      31.
                            4.5
## 12
                      12.
                            4.6
## 13
                      27.
                            4.5
## 14
                      24.
                            4.6
## 15
                       9.
                            4.5
## 16
                      15.
                            4.6
## 17
                      16.
                            4.5
## 18
                       9.
                            4.6
                      37.
                            4.0
## 19
                            4.6
## 20
                      26.
## 21
                      12.
                            4.6
## 22
                     107.
                            4.7
## 23
                      15.
                            4.6
## 24
                            4.4
                      12.
write.csv(automotive, "automotive.csv")
library(rvest)
library(polite)
#product_2
# Read the HTML file
url1 <- "https://www.amazon.com/s?bbn=16225005011&rh=n%3A16225005011%2Cn%3A165796011&dc&qid=1733045399&
session1 <- bow(url1,</pre>
               user_agent = "Educational")
session1
## <polite session> https://www.amazon.com/s?bbn=16225005011&rh=n%3A16225005011%2Cn%3A165796011&dc&qid=
##
       User-agent: Educational
##
       robots.txt: 138 rules are defined for 5 bots
##
      Crawl delay: 5 sec
     The path is scrapable for this user-agent
session_page1 <- scrape(session1)</pre>
print(session_page1)
## {html_document}
## <html lang="en-us" class="a-no-js" data-19ax5a9jf="dingo">
## [1] <head>\n<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">\n<scri ...
## [2] <body class="a-m-us a-aui_72554-c a-aui_a11y_6_837773-t2 a-aui_amzn_img_959719-c a ...
```

```
# Find all div elements with the specified class
div_elements1 <- html_nodes(session_page1, 'div.sg-col-4-of-24.sg-col-4-of-12.s-result-item.s-asin.sg-co
# Create empty vectors to store data
links1 <- character()</pre>
descriptions1 <- character()</pre>
prices1 <- character()</pre>
ratings1 <- character()</pre>
for (div element1 in div elements1) {
  \# Find the a element with class="a-link-normal s-no-outline" and get the link
  a_elemen <- html_node(div_element1, 'a.a-link-normal.s-no-outline')</pre>
  link1 <- ifelse(!is.na(a_elemen), paste0("https://amazon.com", html_attr(a_elemen, "href")), '')</pre>
  # Find the span element with class="a-size-base-plus a-color-base a-text-normal" and get the title
  description_elemen <- html_node(div_element1, 'span.a-size-base-plus.a-color-base.a-text-normal')</pre>
  description1 <- ifelse(!is.na(description_elemen), html_text(description_elemen), '')</pre>
  # Find the span element with class="a-price-whole" and get the price
  price_elemen <- html_node(div_element1, 'span.a-price-whole')</pre>
  price1 <- ifelse(!is.na(price_elemen), html_text(price_elemen), '')</pre>
  # Find the span element with class="a-icon-alt" and get the ratings
  rating_elemen <- html_node(div_element1, 'span.a-icon-alt')</pre>
  rating1 <- ifelse(!is.na(rating_elemen), html_text(rating_elemen), '')
  rating1 <- gsub("out of 5 stars","",rating1, fixed=TRUE)</pre>
  # Append data to vectors
  links1 <- c(links1, link1)</pre>
  descriptions1 <- c(descriptions1, description1)</pre>
  prices1 <- c(prices1, price1)</pre>
  ratings1 <- c(ratings1, rating1)</pre>
}
# Create a data frame
babyprod <- data.frame(Links = links1,</pre>
                          Descriptions = descriptions1,
                          Price = prices1,
                          Rating = ratings1)
babyprod
##
## 1
                        https://amazon.com/Munchkin-Float-Play-Bubbles-Count/dp/B00I3K25R0/ref=sr_1_1?di
      https://amazon.com/Montessori-Sensory-Teething-Learning-Developmental/dp/BOCD42KQ3K/ref=sr_1_2?di
## 2
         https://amazon.com/HUGGIES-Natural-Unscented-Sensitive-Water-Based/dp/B07SCL613T/ref=sr_1_3?di
## 3
## 4
                  https://amazon.com/WaterWipes-Sensitive-Wipes-Count-Packs/dp/B008KJEYLO/ref=sr_1_4?di
## 5
          https://amazon.com/Unscented-Huggies-Simply-Fragrance-Free-Diaper/dp/B08QRKY3NJ/ref=sr_1_5?di
## 6
          https://amazon.com/BEBECAN-Teething-Silicone-Cleaning-Necessities/dp/B09H5MKPP4/ref=sr_1_6?di
## 7
                      https://amazon.com/Amazon-Family-Baby-Registry-Welcome/dp/B00N1NB0V2/ref=sr_1_7?di
```

https://amazon.com/Digital-Infrared-Baby-Thermometer-Forehead/dp/B0824XNJSW/ref=sr\_1\_8?di

## 8

```
## 9
                  https://amazon.com/Infinno-Rattles-Finder-Newborn-Infants/dp/B0B21ZM7LJ/ref=sr_1_9?di
## 10
                  https://amazon.com/Bluey-Sound-Effects-Plush-Multicolor/dp/B08S34YH92/ref=sr_1_10?dib-
## 11
                        https://amazon.com/Baby-Toys-Infant-Crawling-Crab/dp/B0B5XPFKC3/ref=sr_1_11?dib
             https://amazon.com/Suction-Spinner-Spinning-sensory-toddlers/dp/B08X1YQ2N9/ref=sr_1_12?dib-
## 12
## 13
               https://amazon.com/Baby-Einstein-Soother-Melodies-Newborns/dp/B07DM86Z43/ref=sr_1_13?dib-
## 14
           https://amazon.com/Magicteam-Machine-Looping-Soothing-Function/dp/B07RWRJ4XW/ref=sr_1_14?dib-
       https://amazon.com/Learning-Toddlers-Montessori-Counting-Christmas/dp/B0B46BN89X/ref=sr_1_15?dib-
## 15
              https://amazon.com/Infinno-Activity-Center-Stimulate-Growth/dp/B07XC6YCC5/ref=sr_1_16?dib-
## 16
## 17
       https://amazon.com/Yeeeasy-Inflatable-Infants-Toddlers-Development/dp/B09XHGG4B8/ref=sr_1_17?dib-
        https://amazon.com/Projector-Christmas-Birthday-Stocking-Stuffers/dp/B09DY1VZJS/ref=sr_1_18?dib
## 18
## 19
                 https://amazon.com/Pampers-Wipes-Sensitive-Perfume-Multi/dp/B0BJ13K7FR/ref=sr_1_19?dib
           https://amazon.com/Fisher-Price-Laugh-Light-up-Learning-Vacuum/dp/B079JWMS51/ref=sr_1_20?dib
## 20
                            https://amazon.com/VTech-Turn-and-Learn-Driver/dp/B00Y53V80E/ref=sr_1_21?dib
## 21
## 22
         https://amazon.com/Baby-Einstein-Outstanding-Multi-Use-Chillable/dp/B094DSB19L/ref=sr_1_22?dib
## 23
                         https://amazon.com/LEGO-DUPLO-First-Number-Train/dp/B08YP9JRHP/ref=sr_1_23?dib
## 24
                 https://amazon.com/Crayola-Lights-Musical-Doodle-Toddler/dp/B077BS24FS/ref=sr_1_24?dib-
##
      Descriptions Price Rating
## 1
                      6.
                            4.8
## 2
                      9.
                            4.6
## 3
                     21.
                            4.8
## 4
                     39.
                            4.7
## 5
                     16.
                            4.7
## 6
                      9.
                            4.8
                     35.
                            3.7
## 7
## 8
                     19.
                            4.5
## 9
                     13.
                            4.7
## 10
                     10.
                            4.8
## 11
                     19.
                            4.2
                           4.7
## 12
                      7.
## 13
                     33.
                            4.6
## 14
                     20.
                            4.5
## 15
                     19.
                            4.8
## 16
                     15.
                            4.4
                      9.
                            4.2
## 17
## 18
                     20.
                            4.2
## 19
                     34.
                            4.8
## 20
                     17.
                            4.6
## 21
                     12.
                            4.8
## 22
                      5.
                            4.7
## 23
                     15.
                            4.8
## 24
                     19.
                            4.4
write.csv(babyprod, "babyprod.csv")
library(rvest)
library(polite)
#product 3
# Read the HTML file
url2 <- "https://www.amazon.com/s?bbn=16225007011&rh=n%3A16225007011%2Cn%3A172282&dc&qid=1733047215&rni
session2 <- bow(url2,
               user_agent = "Educational")
session2
```

```
## <polite session> https://www.amazon.com/s?bbn=16225007011&rh=n%3A16225007011%2Cn%3A172282&dc&qid=173
##
       User-agent: Educational
       robots.txt: 138 rules are defined for 5 bots
##
      Crawl delay: 5 sec
##
     The path is scrapable for this user-agent
session_page2 <- scrape(session2)</pre>
print(session_page2)
## {html_document}
## <html lang="en-us" class="a-no-js" data-19ax5a9jf="dingo">
## [1] <head>\n<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">\n<scri ...
## [2] <body class="a-m-us a-aui_72554-c a-aui_a11y_6_837773-t2 a-aui_amzn_img_959719-c a ...
# Find all div elements with the specified class
div_elements2 <- html_nodes(session_page2, 'div.sg-col-4-of-24.sg-col-4-of-12.s-result-item.s-asin.sg-co
# Create empty vectors to store data
links2 <- character()</pre>
descriptions2 <- character()</pre>
prices2 <- character()</pre>
ratings2 <- character()</pre>
for (div_element2 in div_elements2) {
  # Find the a element with class="a-link-normal s-no-outline" and get the link
  a_eleme <- html_node(div_element2, 'a.a-link-normal.s-no-outline')</pre>
  link2 <- ifelse(!is.na(a_eleme), paste0("https://amazon.com", html_attr(a_eleme, "href")), '')</pre>
  # Find the span element with class="a-size-base-plus a-color-base a-text-normal" and get the title
  description_eleme <- html_node(div_element2, 'span.a-size-base-plus.a-color-base.a-text-normal')</pre>
  description2 <- ifelse(!is.na(description_eleme), html_text(description_eleme), '')</pre>
  # Find the span element with class="a-price-whole" and get the price
  price eleme <- html node(div element2, 'span.a-price-whole')</pre>
  price2 <- ifelse(!is.na(price_eleme), html_text(price_eleme), '')</pre>
  # Find the span element with class="a-icon-alt" and get the ratings
  rating_eleme <- html_node(div_element2, 'span.a-icon-alt')</pre>
  rating2 <- ifelse(!is.na(rating_eleme), html_text(rating_eleme), '')</pre>
  rating2 <- gsub("out of 5 stars","",rating2, fixed=TRUE)</pre>
  # Append data to vectors
  links2 <- c(links2, link2)</pre>
  descriptions2 <- c(descriptions2, description2)</pre>
 prices2 <- c(prices2, price2)</pre>
  ratings2<- c(ratings2, rating2)</pre>
}
# Create a data frame
electronicsprod <- data.frame(Links = links2,</pre>
                          Descriptions = descriptions2,
```

### Rating = ratings2) electronicsprod ## https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE3MzM5MTIzMzA6c3BfYXRmX2Jyb3d ## 1 https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE3MzM5MTIzMzA6c3BfYXRmX2Jy ## 3 https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE3MzM5MTIzMzA6c3Bf ## 4 ## 5 ## 6 ## 7 ## 8 ## 9 ## 10 ## 11 ## 12 ## 13 https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE ## 14 https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA30Tk5MTU30j ## 15 ## 16 ## 17 ## 18 ## 19 ## 20 ## 21 ## 22 ## 23 ## 24 ## 25 ## 26 ## 27 ## 28

https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE3MzM5MTIzMzA6c3Bf

https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE3MzM5MTIzMzA6c

Price = prices2,

## 33 https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA30Tk5MTU30jE3MzM5MTIzMzA6c3B ## Descriptions Price Rating ## 1 699. 4.2 ## 2 99. 4.4 129. ## 3 4.6 ## 4 149. 4.5 ## 5 69. 4.6 169. ## 6 4.8 ## 7 36. 4.6 ## 8 6. 4.6 ## 9 1,272. 4.3 ## 10 163. 4.4 26. 4.2 ## 11 ## 12 99. 4.4

85.

199.

299.

4.3

## 29 ## 30 ## 31

## 32

## 13

## 14

## 15

```
## 16
                       27.
                             4.4
## 17
                       19.
                             4.8
## 18
                      97.
                             4.5
                             4.8
## 19
                      24.
## 20
                      11.
                             4.7
## 21
                      199.
                             4.6
## 22
                      279.
                             4.2
                      279.
                             4.4
## 23
## 24
                      299.
                             4.6
                      259.
## 25
                             4.6
## 26
                      174.
                             4.8
## 27
                      217.
                             4.4
## 28
                       34.
                             4.4
## 29
                       9.
                             4.6
## 30
                       21.
                             4.7
## 31
                      109.
                             4.9
## 32
                       29.
                             3.9
## 33
                       49.
                             4.1
write.csv(electronicsprod, "electronicsprod.csv")
library(rvest)
library(polite)
#product_4
# Read the HTML file
url3 <- "https://www.amazon.com/s?i=fashion-luggage&bbn=16225017011&rh=n%3A7141123011%2Cn%3A16225017011
session3 <- bow(url3,
               user_agent = "Educational")
session3
## <polite session> https://www.amazon.com/s?i=fashion-luggage&bbn=16225017011&rh=n%3A7141123011%2Cn%3A
##
       User-agent: Educational
##
       robots.txt: 138 rules are defined for 5 bots
##
      Crawl delay: 5 sec
     The path is scrapable for this user-agent
session_page3 <- scrape(session3)</pre>
print(session_page3)
## {html document}
## <html lang="en-us" class="a-no-js" data-19ax5a9jf="dingo">
## [1] <head>\n<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">\n<scri ...
## [2] <body class="a-m-us a-aui_72554-c a-aui_a11y_6_837773-t2 a-aui_amzn_img_959719-c a ...
# Find all div elements with the specified class
div_elements3 <- html_nodes(session_page3, 'div.sg-col-4-of-24.sg-col-4-of-12.s-result-item.s-asin.sg-co
# Create empty vectors to store data
links3 <- character()</pre>
descriptions3 <- character()</pre>
prices3 <- character()</pre>
ratings3 <- character()</pre>
for (div_element3 in div_elements3[1:30]) {
```

```
# Find the a element with class="a-link-normal s-no-outline" and get the link
  a_elem <- html_node(div_element3, 'a.a-link-normal.s-no-outline')</pre>
  link3 <- ifelse(!is.na(a_elem), paste0("https://amazon.com", html_attr(a_elem, "href")), '')</pre>
  # Find the span element with class="a-size-base-plus a-color-base a-text-normal" and get the title
  description_elem <- html_node(div_element3, 'span.a-size-base-plus.a-color-base.a-text-normal')</pre>
  description3 <- ifelse(!is.na(description_elem), html_text(description_elem), '')</pre>
  # Find the span element with class="a-price-whole" and get the price
  price_elem <- html_node(div_element3, 'span.a-price-whole')</pre>
  price3 <- ifelse(!is.na(price_elem), html_text(price_elem), '')</pre>
  # Find the span element with class="a-icon-alt" and get the ratings
  rating_elem <- html_node(div_element3, 'span.a-icon-alt')
  rating3<- ifelse(!is.na(rating_elem), html_text(rating_elem), '')</pre>
  rating3 <- gsub("out of 5 stars","",rating3, fixed=TRUE)</pre>
  # Append data to vectors
 links3 <- c(links3, link3)</pre>
  descriptions3 <- c(descriptions3, description3)</pre>
 prices3 <- c(prices3, price3)</pre>
 ratings3 <- c(ratings3, rating3)</pre>
# Create a data frame
backpacksprod <- data.frame(Links = links3,</pre>
                          Descriptions = descriptions3,
                          Price = prices3,
                          Rating = ratings3)
backpacksprod
##
## 1
## 2
## 3
## 4
## 5
## 6
## 7
## 8
## 9
## 10
## 12 https://amazon.com/LOVEVOOK-Backpack-Backpacks-Waterproof-Black-White-Brown/dp/BOBPX6DNRG/ref=sr_
## 13
## 14
## 15
## 16
## 17
## 18
```

```
## 19
## 20
## 21
## 22
## 23
## 24
## 25
## 26
## 27
## 28
## 29
                  https://amazon.com/ZOMFELT-Backpack-Approved-Personal-Weekender/dp/BODDCTXDBY/ref=sr_
## 30
##
      Descriptions Price Rating
## 1
                            4.7
                      17.
## 2
                      25.
                            4.7
## 3
                      81.
                            4.7
## 4
                      96.
                            4.8
## 5
                      17.
                            4.7
## 6
                      38.
                            4.6
## 7
                      71.
                            4.6
## 8
                      23.
                            4.8
## 9
                            4.6
## 10
                      90.
                            4.7
## 11
                      75.
                            4.8
## 12
                      29.
## 13
                      34.
                            4.6
## 14
                      65.
                            4.6
## 15
                      44.
                            4.7
                      29.
## 16
                            4.6
## 17
                      24.
                            4.1
                            4.7
## 18
                      23.
## 19
                            4.6
## 20
                      65.
                            4.7
## 21
                      27.
                            4.7
## 22
                      56.
                            4.8
## 23
                      28.
                            4.4
## 24
                     101.
                            4.8
## 25
                     245.
                            4.2
## 26
                      33.
                            4.4
## 27
                      26.
                            4.6
## 28
                     295.
                            4.5
                            4.6
## 29
                      25.
## 30
                      21.
                            4.7
write.csv(backpacksprod, "backpacksprod.csv")
library(rvest)
library(polite)
#product_5
# Read the HTML file
url4 <- "https://www.amazon.com/s?bbn=16225012011&rh=n%3A16225012011%2Cn%3A2619525011&dc&qid=1733049023
session4 <- bow(url4,
               user_agent = "Educational")
```

```
session4
## <polite session> https://www.amazon.com/s?bbn=16225012011&rh=n%3A16225012011%2Cn%3A2619525011&dc&qid
       User-agent: Educational
       robots.txt: 138 rules are defined for 5 bots
##
##
      Crawl delay: 5 sec
     The path is scrapable for this user-agent
session_page4 <- scrape(session4)</pre>
print(session_page4)
## {html_document}
## <html lang="en-us" class="a-no-js" data-19ax5a9jf="dingo">
## [1] <head>\n<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">\n<scri ...
## [2] <body class="a-m-us a-aui_72554-c a-aui_a11y_6_837773-t2 a-aui_amzn_img_959719-c a ...
# Find all div elements with the specified class
div_elements4 <- html_nodes(session_page4, 'div.sg-col-4-of-24.sg-col-4-of-12.s-result-item.s-asin.sg-co
# Create empty vectors to store data
links4 <- character()</pre>
descriptions4 <- character()</pre>
prices4 <- character()</pre>
ratings4 <- character()</pre>
for (div_element4 in div_elements4) {
  # Find the a element with class="a-link-normal s-no-outline" and get the link
  a_ele <- html_node(div_element4, 'a.a-link-normal.s-no-outline')</pre>
  link4 <- ifelse(!is.na(a_ele), paste0("https://amazon.com", html_attr(a_ele, "href")), '')</pre>
  # Find the span element with class="a-size-base-plus a-color-base a-text-normal" and get the title
  description_ele <- html_node(div_element4, 'span.a-size-base-plus.a-color-base.a-text-normal')</pre>
  description4 <- ifelse(!is.na(description_ele), html_text(description_ele), '')</pre>
  # Find the span element with class="a-price-whole" and get the price
  price ele <- html node(div element4, 'span.a-price-whole')</pre>
  price4 <- ifelse(!is.na(price_ele), html_text(price_ele), '')</pre>
  # Find the span element with class="a-icon-alt" and get the ratings
  rating_ele <- html_node(div_element4, 'span.a-icon-alt')</pre>
  rating4<- ifelse(!is.na(rating_ele), html_text(rating_ele), '')</pre>
  rating4 <- gsub("out of 5 stars","",rating4, fixed=TRUE)</pre>
  # Append data to vectors
  links4 <- c(links4, link4)</pre>
  descriptions4 <- c(descriptions4, description4)</pre>
  prices4 <- c(prices4, price4)</pre>
  ratings4 <- c(ratings4, rating4)</pre>
# Create a data frame
```

```
appliancesprod <- data.frame(Links = links4,
                         Descriptions = descriptions4,
                         Price = prices4,
                         Rating = ratings4)
appliancesprod
##
## 1
            https://amazon.com/Hamilton-Beach-Reciprocating-Stainless-Ergonomic/dp/B0BNQXXT2F/ref=sr_1_
## 2
               https://amazon.com/FoodSaver-Vacuum-Custom-Sized-BPA-Free-Sealer/dp/B01D5TM5QE/ref=sr_1_
## 3
                    https://amazon.com/FoodSaver-Vacuum-Sealer-Airtight-Storage/dp/B001U005B8/ref=sr 1
## 4
               https://amazon.com/Tyzine-Pressure-Accessory-Efficient-Corkscrew/dp/B07MH2W7QS/ref=sr_1_
## 5
         https://amazon.com/Bonsenkitchen-Storage-Durable-Commercial-Customized/dp/BOC5BWRMQL/ref=sr 1
             https://amazon.com/Premium-MakMeFre-Commercial-Puncture-Prevention/dp/B086DPSPNY/ref=sr_1_
## 6
                     https://amazon.com/Syntus-Vacuum-Sealer-Commercial-Storage/dp/B0C1BB3PH3/ref=sr_1
## 7
## 8
                     https://amazon.com/Kubik-Letters-Premium-Dishwasher-Magnet/dp/B0BVLYL8SZ/ref=sr_1_
## 9
                     https://amazon.com/Syntus-Vacuum-Sealer-Commercial-Storage/dp/B08MPLY84K/ref=sr_1_
## 10
                     https://amazon.com/FoodSaver-Vacuum-Seal-Rolls-Multipack/dp/B0028JURDQ/ref=sr_1_10
          https://amazon.com/Lemige-Replacement-Compatible-Cordless-970013-02/dp/B08DNCW4N8/ref=sr_1_11
## 11
                       https://amazon.com/Proctor-Silex-74312-Electric-Knives/dp/BOBNQXR1MQ/ref=sr_1_12
## 12
                https://amazon.com/Homaider-Electric-Carving-Serving-Included/dp/B091LZV4TF/ref=sr_1_13
## 13
                https://amazon.com/Prikoi-Electric-Knife-Easy-Slice-Ergonomic/dp/B0BXGDQCHQ/ref=sr_1_14
## 14
## 15
                     https://amazon.com/Cuisinart-CEK-41-electric-knife-Black/dp/B07H5T2T2S/ref=sr_1_15
## 16
       https://amazon.com/Anewise-Replacement-Navigator-Professional-ZU503AMZ/dp/B01AFZAQEY/ref=sr_1_16
                https://amazon.com/FoodSaver-Airtight-Storage-Perfect-Cooking/dp/B001U0274Q/ref=sr_1_17
## 17
               https://amazon.com/02frepak-Vacuum-Puncture-Prevention-Vaccume/dp/B07BPTV4X3/ref=sr_1_18
## 18
## 19 https://amazon.com/Bonsenkitchen-Storage-Commercial-Textured-Customized/dp/B0C5BWGRHW/ref=sr_1_19
## 20
        https://amazon.com/FoodSaver-1-Quart-BPA-Free-Multilayer-Construction/dp/B002TMRMHG/ref=sr 1 20
## 21
           https://amazon.com/Gamesaver-Weston-Commercial-Puncture-Prevention/dp/B07TSBFJZ1/ref=sr_1_21
## 22
                https://amazon.com/Bonsenkitchen-Quart-12-Commercial-Textured/dp/B0C5C1JTC4/ref=sr 1 22
## 23
       https://amazon.com/Bonsenkitchen-Storage-Durable-Commercial-Customized/dp/B0BLVJM3YC/ref=sr_1_23
## 24
             https://amazon.com/Bonsenkitchen-10-Commercial-Textured-Embossed/dp/B0BLTXWFNQ/ref=sr_1_24
##
      Descriptions Price Rating
## 1
                     24.
                           4.6
## 2
                     29.
                           4.8
## 3
                     18.
                           4.8
## 4
                     12.
                           4.4
## 5
                           4.6
                     19.
## 6
                     17.
                           4.6
                     20.
                           4.6
## 7
## 8
                     14.
                           4.8
## 9
                     19.
                           4.6
                           4.8
## 10
                     42.
## 11
                     19.
                           4.6
## 12
                     21.
                           4.6
## 13
                     49.
                           4.4
## 14
                     37.
                           4.3
                     49.
                           4.4
## 15
## 16
                     15.
                           4.7
## 17
                     29.
                           4.8
## 18
                     23.
                           4.7
## 19
                     12.
                           4.6
## 20
                           4.7
                      9.
                           4.6
## 21
                     18.
```

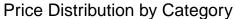
## 22

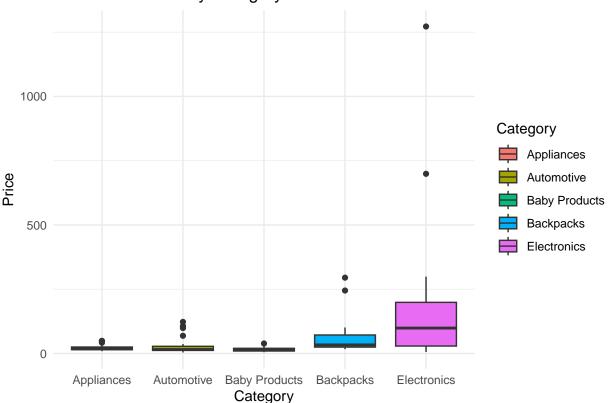
22.

4.7

```
## 23
                      13.
                             4.6
## 24
                      12.
                             4.7
write.csv(appliancesprod, "appliancesprod.csv")
#The data includes products from five Amazon categories: Automotive, Baby Products, Electronics, Backpa
#The data helps analyze prices and ratings to identify value-for-money categories, track market trends,
library(ggplot2)
library(dplyr)
# Read datasets
automotive <- read.csv("automotive.csv")</pre>
babyprod <- read.csv("babyprod.csv")</pre>
electronicsprod <- read.csv("electronicsprod.csv")</pre>
backpacksprod <- read.csv("backpacksprod.csv")</pre>
appliancesprod <- read.csv("appliancesprod.csv")</pre>
# Combine categories
automotive$Category <- "Automotive"</pre>
babyprod$Category <- "Baby Products"</pre>
electronicsprod$Category <- "Electronics"</pre>
backpacksprod$Category <- "Backpacks"</pre>
appliancesprod$Category <- "Appliances"</pre>
all_products <- rbind(automotive, babyprod, electronicsprod, backpacksprod, appliancesprod)</pre>
# Convert Price and Rating to numeric
all_products$Price <- as.numeric(gsub(",", "", all_products$Price))</pre>
all_products$Rating <- as.numeric(all_products$Rating)</pre>
#Price Distribution
ggplot(all_products, aes(x = Category, y = Price, fill = Category)) +
  geom_boxplot() +
  labs(title = "Price Distribution by Category", x = "Category", y = "Price") +
 theme_minimal()
## Warning: Removed 2 rows containing non-finite outside the scale range
```

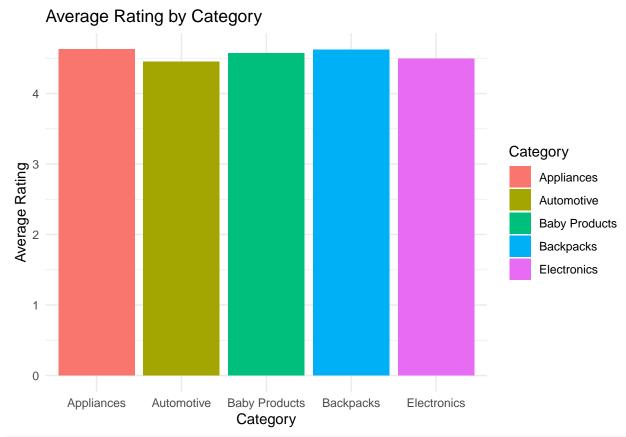
## (`stat\_boxplot()`).





```
#Average Rating per Category
avg_rating <- all_products %>%
  group_by(Category) %>%
  summarise(Average_Rating = mean(Rating, na.rm = TRUE))

ggplot(avg_rating, aes(x = Category, y = Average_Rating, fill = Category)) +
  geom_bar(stat = "identity") +
  labs(title = "Average Rating by Category", x = "Category", y = "Average Rating") +
  theme_minimal()
```



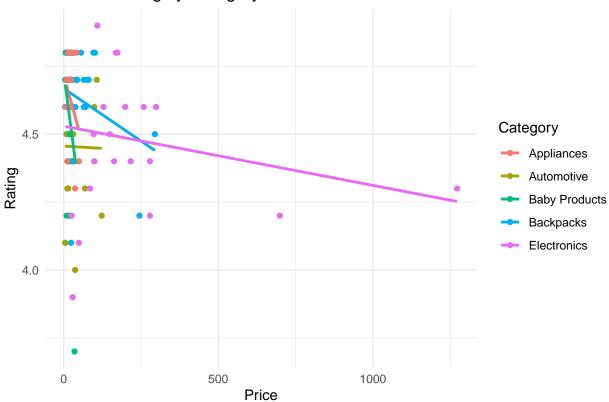
```
#Correlation between Price and Rating
ggplot(all_products, aes(x = Price, y = Rating, color = Category)) +
   geom_point() +
   geom_smooth(method = "lm", se = FALSE) +
   labs(title = "Price vs Rating by Category", x = "Price", y = "Rating") +
   theme_minimal()
```

```
## `geom_smooth()` using formula = 'y ~ x'
```

<sup>##</sup> Warning: Removed 5 rows containing non-finite outside the scale range (`stat\_smooth()`).

<sup>##</sup> Warning: Removed 5 rows containing missing values or values outside the scale range
## (`geom\_point()`).

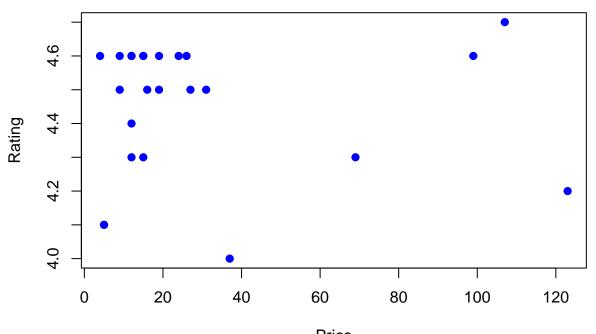
### Price vs Rating by Category



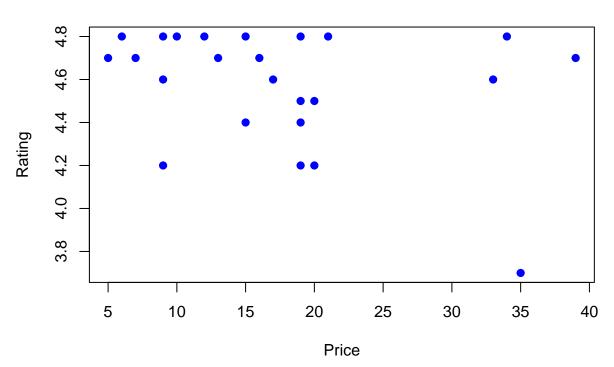
#We create graphs to show price distribution, average ratings per category, and the correlation between

```
#9.
# Load data for each category
categories <- list(</pre>
  "Automotive" = read.csv("automotive.csv"),
  "Baby Products" = read.csv("babyprod.csv"),
  "Electronics" = read.csv("electronicsprod.csv"),
  "Backpacks" = read.csv("backpacksprod.csv"),
  "Appliances" = read.csv("appliancesprod.csv")
# Base R plots for each category
for (cat in names(categories)) {
  data <- categories[[cat]]</pre>
  plot(as.numeric(data$Price), as.numeric(data$Rating),
       main = paste(cat, ": Price vs Rating"),
       xlab = "Price",
       ylab = "Rating",
       pch = 19, col = "blue")
}
```

# **Automotive : Price vs Rating**

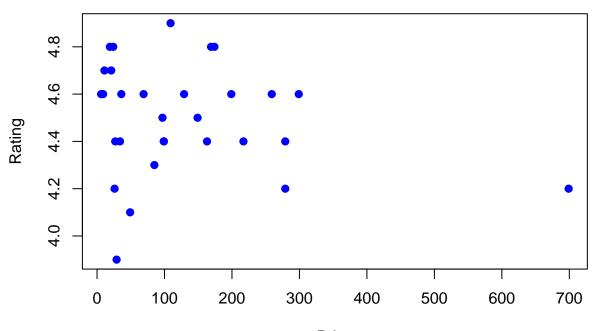


# Price Baby Products: Price vs Rating



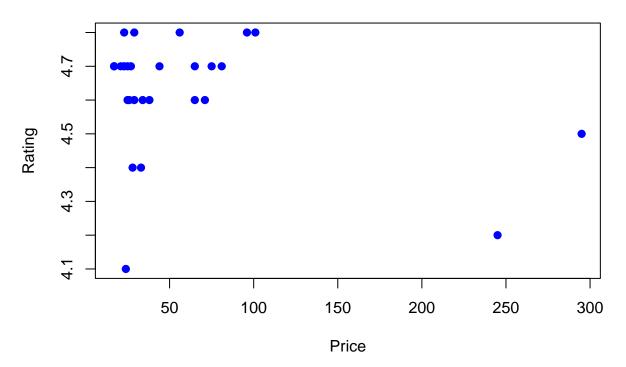
## Warning in plot(as.numeric(data\$Price), as.numeric(data\$Rating), main = paste(cat, : NAs
## introduced by coercion

## **Electronics : Price vs Rating**

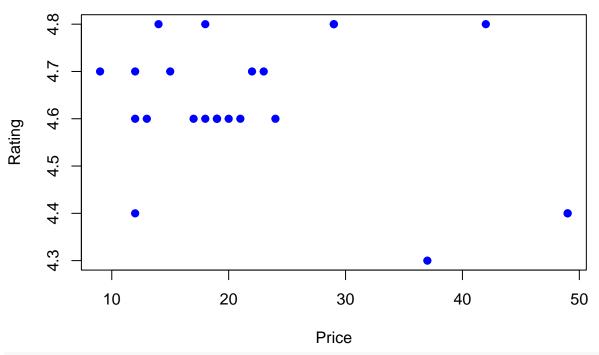


Price

Backpacks: Price vs Rating

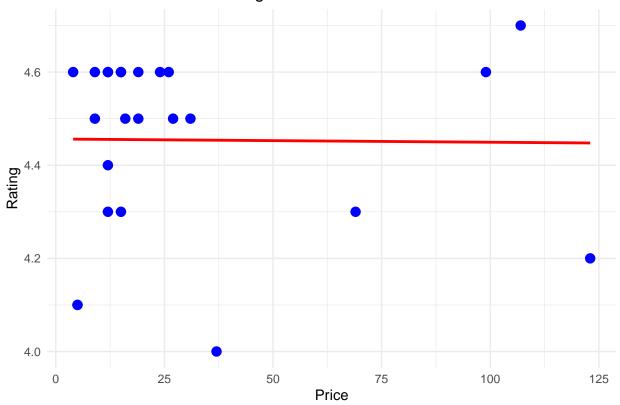


### **Appliances: Price vs Rating**



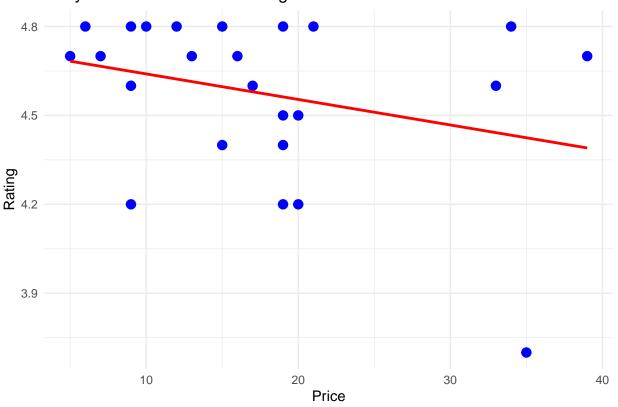
```
# Load ggplot2 package
library(ggplot2)
# Function to create ggplot for each category
plot_category <- function(data, category_name) {</pre>
  data$Price <- as.numeric(data$Price)</pre>
  data$Rating <- as.numeric(data$Rating)</pre>
  ggplot(data, aes(x = Price, y = Rating)) +
    geom_point(color = "blue", size = 3) +
    geom_smooth(method = "lm", se = FALSE, color = "red") +
    labs(title = paste(category_name, ": Price vs Rating"),
         x = "Price",
         y = "Rating") +
    theme_minimal()
}
# Plot for each category
for (cat in names(categories)) {
  print(plot_category(categories[[cat]], cat))
```

# Automotive : Price vs Rating



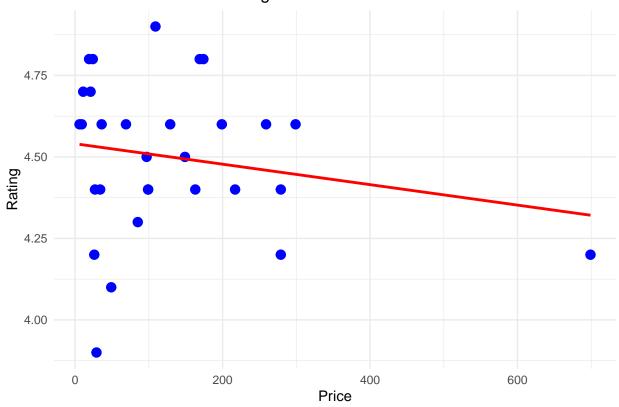
## `geom\_smooth()` using formula = 'y ~ x'

### Baby Products: Price vs Rating

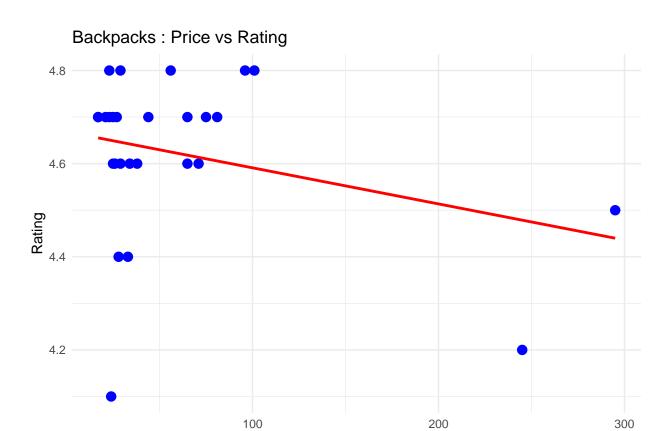


- ## Warning in plot\_category(categories[[cat]], cat): NAs introduced by coercion
- ## `geom\_smooth()` using formula = 'y ~ x'
- ## Warning: Removed 3 rows containing non-finite outside the scale range (`stat\_smooth()`).
- ## Warning: Removed 3 rows containing missing values or values outside the scale range ## (`geom\_point()`).

## Electronics: Price vs Rating



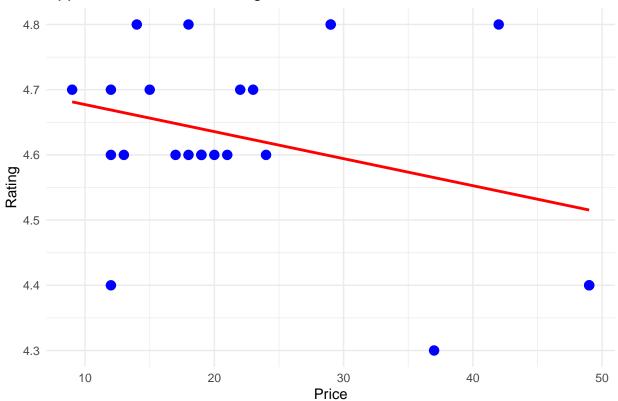
- ## `geom\_smooth()` using formula = 'y ~ x'
- ## Warning: Removed 3 rows containing non-finite outside the scale range (`stat\_smooth()`).
- ## Removed 3 rows containing missing values or values outside the scale range
- ## (`geom\_point()`).



Price

## `geom\_smooth()` using formula = 'y ~ x'





```
## # A tibble: 133 x 8
               Category [5]
## # Groups:
##
          X Links
                                    Descriptions Price Rating Category Price_Rank Rating_Rank
      <int> <chr>
                                                 <dbl>
                                                        <dbl> <chr>
                                                                             <dbl>
                                                                                          <dbl>
##
                                    <1g1>
##
         20 https://amazon.com/Fo~ NA
                                                           4.7 Applian~
                                                                               1
                                                                                            8
    1
         24 https://amazon.com/Bo~ NA
##
   2
                                                    12
                                                           4.7 Applian~
                                                                               3
                                                                                            8
         19 https://amazon.com/Bo~ NA
                                                           4.6 Applian~
##
   3
                                                    12
                                                                               3
                                                                                           15.5
          4 https://amazon.com/Ty~ NA
##
   4
                                                    12
                                                           4.4 Applian~
                                                                               3
                                                                                           22
         23 https://amazon.com/Bo~ NA
                                                          4.6 Applian~
##
   5
                                                    13
                                                                               5
                                                                                           15.5
##
   6
         8 https://amazon.com/Ku~ NA
                                                    14
                                                          4.8 Applian~
                                                                               6
                                                                                            3
         16 https://amazon.com/An~ NA
                                                           4.7 Applian~
                                                                               7
##
   7
                                                    15
                                                                                            8
##
         6 https://amazon.com/Pr~ NA
                                                    17
                                                           4.6 Applian~
                                                                               8
                                                                                           15.5
   8
```

```
## 9
          3 https://amazon.com/Fo~ NA
                                                     18
                                                            4.8 Applian~
                                                                                 9.5
## 10
         21 https://amazon.com/Ga~ NA
                                                     18
                                                            4.6 Applian~
                                                                                 9.5
                                                                                             15.5
## # i 123 more rows
#Graphs help visualize pricing trends and the relationship between price and user satisfaction, providi
#5b.
library(rvest)
library(polite)
#product_1 with reviews
# Define the URL for Automotive category
url <- "https://www.amazon.com/s?bbn=2562090011&rh=n%3A2562090011%2Cn%3A15684181&dc&qid=1733043876&rnid
session <- polite::bow(url, user_agent = "Educational")</pre>
session_page <- scrape(session)</pre>
# Find all div elements with the specified class
div_elements <- html_nodes(session_page, 'div.sg-col-4-of-24.sg-col-4-of-12.s-result-item.s-asin.sg-col
# Create empty vectors to store data
product_data <- list() # List to store product-level data</pre>
for (div_element in div_elements) {
  # Find product link
  a_element <- html_node(div_element, 'a.a-link-normal.s-no-outline')</pre>
  link <- ifelse(!is.na(a_element), paste0("https://amazon.com", html_attr(a_element, "href")), '')</pre>
  # Find product description
  description_element <- html_node(div_element, 'span.a-size-base-plus.a-color-base.a-text-normal')</pre>
  description <- ifelse(!is.na(description_element), html_text(description_element), '')</pre>
  # Find product price
  price_element <- html_node(div_element, 'span.a-price-whole')</pre>
  price <- ifelse(!is.na(price element), html text(price element), '')</pre>
  # Find product ratings
  rating_element <- html_node(div_element, 'span.a-icon-alt')</pre>
  rating <- ifelse(!is.na(rating_element), html_text(rating_element), '')</pre>
  rating <- gsub("out of 5 stars", "", rating, fixed = TRUE)</pre>
  # Scrape reviews for each product
  reviews <- character()
  if (link != '') {
    # Go to the reviews section of the product
    review_url <- pasteO(link, "#customerReviews")</pre>
    tryCatch({
      review_page <- read_html(review_url)</pre>
      review_elements <- html_nodes(review_page, 'span[data-hook="review-body"] span')</pre>
      reviews <- html text(review elements)</pre>
      # Limit to the first 10 reviews
```

```
reviews <- reviews[1:min(10, length(reviews))]</pre>
    }, error = function(e) {
      reviews <- rep(NA, 10) # Fill with NAs if there's no review
    })
  }
  # Append product data and reviews to the list
  product_data <- append(product_data, list(data.frame(</pre>
    Link = rep(link, length(reviews)),
    Description = rep(description, length(reviews)),
    Price = rep(price, length(reviews)),
    Rating = rep(rating, length(reviews)),
    Review = reviews
  )))
# Combine all product data into one data frame
all_reviews_df <- do.call(rbind, product_data)</pre>
# Save to CSV
write.csv(all_reviews_df, "automotive_reviews.csv", row.names = FALSE)
all_reviews_df
##
## 1
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               https://amazon.com/MOLOSLEEVE-Keychain-Anti-Scratch-Airtags-Accessories/dp/BOCGDDXY11/re
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                  https://amazon.com/Miracase-Holders-Universal-Automobile-Smartphones/dp/BOCHYBKQPM/re
       https://amazon.com/Upgraded%E3%80%91Cleaning-Car-Universal-Detailing-Automotive/dp/B09VKPZRN4/re
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       https://amazon.com/Upgraded%E3%80%91Cleaning-Car-Universal-Detailing-Automotive/dp/B09VKPZRN4/re
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               https://amazon.com/Tough-Headwear-Balaclava-Snowboarding-Motorcycling/dp/B019F18TX4/ref=
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                      https://amazon.com/Holder-Keychain-Cases-Anti-Scratch-Silicone/dp/BOCQXC6WS5/ref=
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                      https://amazon.com/Holder-Keychain-Cases-Anti-Scratch-Silicone/dp/BOCQXC6WS5/ref=
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            https://amazon.com/NOCO-GENIUS1-Fully-Automatic-Temperature-Compensation/dp/B07W46BX31/ref=
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                                  https://amazon.com/HOTOR-Car-Trash-Storage-Pockets/dp/BO7VGRVKSN/ref=
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## 35 ## 36 I pruchased this to use in my vehicle to get into tho

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it's so versatile!Plus, it only takes minutes to inflate a car tire to the exact pressure. The 12V DC c
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5 minutes to inflate. After an off-road trip, it took approximately 20 minutes to restore all four tire
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I'm blown away! The entire process took me only 20 minutes, and the results are incredible. My headlight
## 72 I used the CERAKOTE® Ceramic Headlight Restoration Kit on my 2007 Toyota Avalon, and I am thorou
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my headlights looked like new! The kit is super easy to use, with no need for power tools, and the step
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Koorosh
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just plug it into the OBD II port, and it immediately started communicating with my car's ECU. The disp
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sturdy and durable, ensuring it can withstand regular use. One of the standout features is the automatic
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I can quickly tuck it away when I need more trunk space. It's also super easy to clean, which is perfec
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print("Data saved to 'automotive_reviews.csv'")
```

## [1] "Data saved to 'automotive\_reviews.csv'"

```
library(rvest)
library(polite)
#product_2 with reviews
# Define the URL for Baby Products category
url1 <- "https://www.amazon.com/s?bbn=16225005011&rh=n%3A16225005011%2Cn%3A165796011&dc&qid=1733045399&
# Create a polite session
session1 <- bow(url1, user_agent = "Educational")</pre>
session_page1 <- scrape(session1)</pre>
# Find all div elements with the specified class
div_elements1 <- html_nodes(session_page1, 'div.sg-col-4-of-24.sg-col-4-of-12.s-result-item.s-asin.sg-c
# Create a list to store product data
product_data1 <- list()</pre>
for (div_element1 in div_elements1) {
  # Find product link
  a_elemen <- html_node(div_element1, 'a.a-link-normal.s-no-outline')</pre>
  link1 <- ifelse(!is.na(a_elemen), paste0("https://amazon.com", html_attr(a_elemen, "href")), '')</pre>
  # Find product description
  description_elemen <- html_node(div_element1, 'span.a-size-base-plus.a-color-base.a-text-normal')</pre>
  description1 <- ifelse(!is.na(description_elemen), html_text(description_elemen), '')</pre>
  # Find product price
  price_elemen <- html_node(div_element1, 'span.a-price-whole')</pre>
  price1 <- ifelse(!is.na(price_elemen), html_text(price_elemen), '')</pre>
  # Find product rating
  rating_elemen <- html_node(div_element1, 'span.a-icon-alt')</pre>
  rating1 <- ifelse(!is.na(rating_elemen), html_text(rating_elemen), '')</pre>
  rating1 <- gsub("out of 5 stars", "", rating1, fixed = TRUE)</pre>
  # Scrape reviews for each product
  reviews1 <- character()</pre>
  if (link1 != '') {
    # Access the product reviews section
    review_url1 <- pasteO(link1, "#customerReviews")</pre>
    tryCatch({
      review_page1 <- read_html(review_url1)</pre>
      review_elements1 <- html_nodes(review_page1, 'span[data-hook="review-body"] span')</pre>
      reviews1 <- html_text(review_elements1)</pre>
      # Limit to the first 10 reviews
      reviews1 <- reviews1[1:min(10, length(reviews1))]</pre>
    }, error = function(e) {
      reviews1 <- rep(NA, 10) # Fill with NAs if there are no reviews
    })
  }
  # Append product data and reviews to the list
```

```
Link = rep(link1, length(reviews1)),
   Description = rep(description1, length(reviews1)),
    Price = rep(price1, length(reviews1)),
   Rating = rep(rating1, length(reviews1)),
   Review = reviews1
  )))
}
# Combine all product data into one data frame
baby_reviews_df <- do.call(rbind, product_data1)</pre>
# Save to CSV
write.csv(baby_reviews_df, "babyprod_reviews.csv", row.names = FALSE)
print("Data saved to 'babyprod_reviews.csv'")
## [1] "Data saved to 'babyprod_reviews.csv'"
baby_reviews_df
##
                        https://amazon.com/Munchkin-Float-Play-Bubbles-Count/dp/B00I3K25R0/ref=sr_1_1?d
## 1
      https://amazon.com/Montessori-Sensory-Teething-Learning-Developmental/dp/BOCD42KQ3K/ref=sr_1_2?d
## 2
## 3
          https://amazon.com/HUGGIES-Natural-Unscented-Sensitive-Water-Based/dp/B07SCL613T/ref=sr_1_3?d
          https://amazon.com/HUGGIES-Natural-Unscented-Sensitive-Water-Based/dp/B07SCL613T/ref=sr_1_3?d
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          https://amazon.com/HUGGIES-Natural-Unscented-Sensitive-Water-Based/dp/B07SCL613T/ref=sr_1_3?d
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          https://amazon.com/HUGGIES-Natural-Unscented-Sensitive-Water-Based/dp/B07SCL613T/ref=sr_1_3?d
          https://amazon.com/HUGGIES-Natural-Unscented-Sensitive-Water-Based/dp/B07SCL613T/ref=sr 1 3?d
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          https://amazon.com/HUGGIES-Natural-Unscented-Sensitive-Water-Based/dp/B07SCL613T/ref=sr_1_3?d
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          https://amazon.com/HUGGIES-Natural-Unscented-Sensitive-Water-Based/dp/B07SCL613T/ref=sr_1_3?d
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                   https://amazon.com/WaterWipes-Sensitive-Wipes-Count-Packs/dp/B008KJEYLO/ref=sr_1_4?d
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           https://amazon.com/Unscented-Huggies-Simply-Fragrance-Free-Diaper/dp/B08QRKY3NJ/ref=sr 1 5?d
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           https://amazon.com/Unscented-Huggies-Simply-Fragrance-Free-Diaper/dp/B08QRKY3NJ/ref=sr_1_5?d
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           https://amazon.com/Unscented-Huggies-Simply-Fragrance-Free-Diaper/dp/B08QRKY3NJ/ref=sr_1_5?d
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           https://amazon.com/Unscented-Huggies-Simply-Fragrance-Free-Diaper/dp/B08QRKY3NJ/ref=sr_1_5?d
           https://amazon.com/Unscented-Huggies-Simply-Fragrance-Free-Diaper/dp/B08QRKY3NJ/ref=sr_1_5?d
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           https://amazon.com/Unscented-Huggies-Simply-Fragrance-Free-Diaper/dp/B08QRKY3NJ/ref=sr_1_5?d
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           https://amazon.com/Unscented-Huggies-Simply-Fragrance-Free-Diaper/dp/B08QRKY3NJ/ref=sr_1_5?d
           https://amazon.com/Unscented-Huggies-Simply-Fragrance-Free-Diaper/dp/B08QRKY3NJ/ref=sr_1_5?d
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           https://amazon.com/Unscented-Huggies-Simply-Fragrance-Free-Diaper/dp/B08QRKY3NJ/ref=sr_1_5?d
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           https://amazon.com/Unscented-Huggies-Simply-Fragrance-Free-Diaper/dp/B08QRKY3NJ/ref=sr_1_5?d
                      https://amazon.com/Amazon-Family-Baby-Registry-Welcome/dp/B00N1NBOV2/ref=sr_1_7?d
## 24
                      https://amazon.com/Amazon-Family-Baby-Registry-Welcome/dp/B00N1NB0V2/ref=sr_1_7?d
## 25
## 26
                      https://amazon.com/Amazon-Family-Baby-Registry-Welcome/dp/B00N1NB0V2/ref=sr_1_7?d
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                      https://amazon.com/Amazon-Family-Baby-Registry-Welcome/dp/B00N1NB0V2/ref=sr_1_7?d
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                      https://amazon.com/Amazon-Family-Baby-Registry-Welcome/dp/B00N1NB0V2/ref=sr_1_7?d
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## 30
                      https://amazon.com/Amazon-Family-Baby-Registry-Welcome/dp/B00N1NB0V2/ref=sr_1_7?d
## 31
                      https://amazon.com/Amazon-Family-Baby-Registry-Welcome/dp/B00N1NB0V2/ref=sr 1 7?d
                      https://amazon.com/Amazon-Family-Baby-Registry-Welcome/dp/B00N1NB0V2/ref=sr_1_7?d
## 32
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product\_data1 <- append(product\_data1, list(data.frame(</pre>

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## 33
                               https://amazon.com/Amazon-Family-Baby-Registry-Welcome/dp/B00N1NB0V2/ref=sr_1_7?d
## 34
                     https://amazon.com/Digital-Infrared-Baby-Thermometer-Forehead/dp/B0824XNJSW/ref=sr_1_8?d
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   35
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                           https://amazon.com/Infinno-Rattles-Finder-Newborn-Infants/dp/BOB21ZM7LJ/ref=sr_1_9?d
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                           https://amazon.com/Bluey-Sound-Effects-Plush-Multicolor/dp/B08S34YH92/ref=sr_1_10?di
                                   https://amazon.com/Baby-Toys-Infant-Crawling-Crab/dp/B0B5XPFKC3/ref=sr_1_11?di
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                                   https://amazon.com/Baby-Toys-Infant-Crawling-Crab/dp/BOB5XPFKC3/ref=sr_1_11?di
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                                   https://amazon.com/Baby-Toys-Infant-Crawling-Crab/dp/BOB5XPFKC3/ref=sr_1_11?di
## 55
                   https://amazon.com/Suction-Spinner-Spinning-sensory-toddlers/dp/B08X1YQ2N9/ref=sr_1_12?di
##
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## 57
                      https://amazon.com/Baby-Einstein-Soother-Melodies-Newborns/dp/B07DM86Z43/ref=sr_1_13?di
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   58
                 https://amazon.com/Magicteam-Machine-Looping-Soothing-Function/dp/B07RWRJ4XW/ref=sr_1_14?di
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                 https://amazon.com/Magicteam-Machine-Looping-Soothing-Function/dp/B07RWRJ4XW/ref=sr_1_14?di
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                 https://amazon.com/Magicteam-Machine-Looping-Soothing-Function/dp/B07RWRJ4XW/ref=sr_1_14?di
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                 https://amazon.com/Magicteam-Machine-Looping-Soothing-Function/dp/B07RWRJ4XW/ref=sr_1_14?di
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                 https://amazon.com/Magicteam-Machine-Looping-Soothing-Function/dp/B07RWRJ4XW/ref=sr_1_14?di
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                 https://amazon.com/Magicteam-Machine-Looping-Soothing-Function/dp/B07RWRJ4XW/ref=sr_1_14?di
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           https://amazon.com/Learning-Toddlers-Montessori-Counting-Christmas/dp/BOB46BN89X/ref=sr_1_15?di
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           https://amazon.com/Learning-Toddlers-Montessori-Counting-Christmas/dp/BOB46BN89X/ref=sr_1_15?di
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           https://amazon.com/Learning-Toddlers-Montessori-Counting-Christmas/dp/BOB46BN89X/ref=sr_1_15?di
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           https://amazon.com/Learning-Toddlers-Montessori-Counting-Christmas/dp/BOB46BN89X/ref=sr_1_15?di
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           https://amazon.com/Learning-Toddlers-Montessori-Counting-Christmas/dp/BOB46BN89X/ref=sr_1_15?di
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           https://amazon.com/Learning-Toddlers-Montessori-Counting-Christmas/dp/BOB46BN89X/ref=sr_1_15?di
                     https://amazon.com/Infinno-Activity-Center-Stimulate-Growth/dp/B07XC6YCC5/ref=sr_1_16?di
## 78
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   79
           https://amazon.com/Yeeeasy-Inflatable-Infants-Toddlers-Development/dp/B09XHGG4B8/ref=sr_1_17?di
            https://amazon.com/Projector-Christmas-Birthday-Stocking-Stuffers/dp/B09DY1VZJS/ref=sr_1_18?di
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                         https://amazon.com/Pampers-Wipes-Sensitive-Perfume-Multi/dp/BOBJ13K7FR/ref=sr_1_19?di
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                            https://amazon.com/Pampers-Wipes-Sensitive-Perfume-Multi/dp/BOBJ13K7FR/ref=sr_1_19?di
                   https://amazon.com/Fisher-Price-Laugh-Light-up-Learning-Vacuum/dp/B079JWMS51/ref=sr_1_20?di
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                   https://amazon.com/Fisher-Price-Laugh-Light-up-Learning-Vacuum/dp/B079JWMS51/ref=sr_1_20?di
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## 101
                                            https://amazon.com/VTech-Turn-and-Learn-Driver/dp/B00Y53V80E/ref=sr_1_21?di
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                                            https://amazon.com/VTech-Turn-and-Learn-Driver/dp/B00Y53V80E/ref=sr 1 21?di
               https://amazon.com/Baby-Einstein-Outstanding-Multi-Use-Chillable/dp/B094DSB19L/ref=sr 1 22?di
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               https://amazon.com/Baby-Einstein-Outstanding-Multi-Use-Chillable/dp/B094DSB19L/ref=sr 1 22?di
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               https://amazon.com/Baby-Einstein-Outstanding-Multi-Use-Chillable/dp/B094DSB19L/ref=sr_1_22?di
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               https://amazon.com/Baby-Einstein-Outstanding-Multi-Use-Chillable/dp/B094DSB19L/ref=sr_1_22?di
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               https://amazon.com/Baby-Einstein-Outstanding-Multi-Use-Chillable/dp/B094DSB19L/ref=sr_1_22?di
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               https://amazon.com/Baby-Einstein-Outstanding-Multi-Use-Chillable/dp/B094DSB19L/ref=sr_1_22?di
## 119
               https://amazon.com/Baby-Einstein-Outstanding-Multi-Use-Chillable/dp/B094DSB19L/ref=sr_1_22?di
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## 120
                            https://amazon.com/Crayola-Lights-Musical-Doodle-Toddler/dp/B077BS24FS/ref=sr_1_24?di
##
    121
##
          Description Price Rating
## 1
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| ## 25 | 35. | 3.7 |
| ## 26 | 35. | 3.7 |
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| ## 28 | 35. | 3.7 |
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| ## 30 | 35. | 3.7 |
| ## 31 | 35. | 3.7 |
| ## 32 | 35. | 3.7 |
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## 3
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not too thin, so they don't tear, but also not too thick, making them easy to maneuver for quick clean-

```
a true essential!
## 4
## 5
## 6
## 7
## 8
## 9
## 10
## 11
## 12
## 13
              I'VE BEEN USING THIS PARTICULAR HUGGIES WIPES FOR SEVERAL YEARS. I used to use a differen
## 14
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## 17
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## 43
## 44
## 45
## 46
## 47
-but do that first if you think they might be intimidated. Otherwise VERY CUTE! Some people use it for
## 50
## 51
## 52
## 53
## 54
by a hoola hoop for the crab to have boundaries and help with neck movement and mobility during tummy t
```

```
## 55
## 56
## 57
## 58
## 59
## 60
## 61
## 62
## 63
## 64
## 65
       One of the best items I've ever spent money on. I was having trouble sleeping at one point, and
## 66
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## 70
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## 73
## 74
## 75
## 76
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## 78
## 79
## 80
## 81
everything you want in a baby wipe. We feel good knowing we're using a product that's safe for our baby
## 82
## 83
## 84
## 85
everything we look for in baby wipes. Highly recommend them for parents looking for a reliable wipe for
## 87
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## 121
library(rvest)
library(polite)
#product_3 with reviews
# Define the URL for Electronics category
url2 <- "https://www.amazon.com/s?bbn=16225007011&rh=n%3A16225007011%2Cn%3A172282&dc&qid=1733047215&rni
# Create a polite session
session2 <- bow(url2, user_agent = "Educational")</pre>
session_page2 <- scrape(session2)</pre>
\# Find all div elements with the specified class
div_elements2 <- html_nodes(session_page2, 'div.sg-col-4-of-24.sg-col-4-of-12.s-result-item.s-asin.sg-c
# Create a list to store product data
product_data2 <- list()</pre>
for (div_element2 in div_elements2) {
  # Find product link
  a_eleme <- html_node(div_element2, 'a.a-link-normal.s-no-outline')</pre>
  link2 <- ifelse(!is.na(a_eleme), paste0("https://amazon.com", html_attr(a_eleme, "href")), '')</pre>
  # Find product description
  description_eleme <- html_node(div_element2, 'span.a-size-base-plus.a-color-base.a-text-normal')
  description2 <- ifelse(!is.na(description_eleme), html_text(description_eleme), '')</pre>
  # Find product price
  price_eleme <- html_node(div_element2, 'span.a-price-whole')</pre>
  price2 <- ifelse(!is.na(price_eleme), html_text(price_eleme), '')</pre>
  # Find product rating
  rating_eleme <- html_node(div_element2, 'span.a-icon-alt')</pre>
  rating2 <- ifelse(!is.na(rating_eleme), html_text(rating_eleme), '')</pre>
  rating2 <- gsub("out of 5 stars", "", rating2, fixed = TRUE)</pre>
  # Scrape reviews for each product
  reviews2 <- character()</pre>
  if (link2 != '') {
```

```
review_page2 <- read_html(review_url2)</pre>
      review_elements2 <- html_nodes(review_page2, 'span[data-hook="review-body"] span')
      reviews2 <- html_text(review_elements2)</pre>
      # Limit to the first 10 reviews
     reviews2 <- reviews2[1:min(10, length(reviews2))]</pre>
   }, error = function(e) {
      reviews2 <- rep(NA, 10) # Fill with NAs if there are no reviews
   })
  }
  # Append product data and reviews to the list
  product_data2 <- append(product_data2, list(data.frame(</pre>
   Link = rep(link2, length(reviews2)),
   Description = rep(description2, length(reviews2)),
   Price = rep(price2, length(reviews2)),
   Rating = rep(rating2, length(reviews2)),
   Review = reviews2
  )))
}
# Combine all product data into one data frame
electronics_reviews_df <- do.call(rbind, product_data2)</pre>
# Save to CSV
write.csv(electronics_reviews_df, "electronicsprod_reviews.csv", row.names = FALSE)
print("Data saved to 'electronicsprod_reviews.csv'")
## [1] "Data saved to 'electronicsprod_reviews.csv'"
electronics_reviews_df
##
## 1
       https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA30Tk5MTU30jE3MzM5MTIzMzA6c3BfYXRmX2Jyb3
          https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE3MzM5MTIzMzA6c3BfYXRmX2J
## 2
## 3
                  https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE3MzM5MTIzMzA6c3B
## 4
                  https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE3MzM5MTIzMzA6c3B
                  https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE3MzM5MTIzMzA6c3B
## 5
## 6
                  https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE3MzM5MTIzMzA6c3B
                  https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE3MzM5MTIzMzA6c3B
## 7
## 8
                  https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE3MzM5MTIzMzA6c3B
                  https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE3MzM5MTIzMzA6c3B
## 9
## 10
                  https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE3MzM5MTIzMzA6c3B
## 11
                  https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE3MzM5MTIzMzA6c3B
## 12
                  https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE3MzM5MTIzMzA6c3B
## 13
## 14
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## 18
```

# Access the product reviews section

tryCatch({

review\_url2 <- paste0(link2, "#customerReviews")</pre>

```
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## 38
## 39
## 40
                                     https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA30Tk5MTU30j
## 41
               https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA30Tk5MTU30jE3MzM5MTIzMzA6c3BfbX
                                      https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA30Tk5MTU30
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## 102
                  https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE3MzM5MTIzMzA6c3B
## 103
                  https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE3MzM5MTIzMzA6c3B
## 104
                  https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE3MzM5MTIzMzA6c3B
## 105
                  https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE3MzM5MTIzMzA6c3B
## 106
                  https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE3MzM5MTIzMzA6c3B
## 107
                  https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE3MzM5MTIzMzA6c3B
                  https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE3MzM5MTIzMzA6c3B
## 108
## 109
                  https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE3MzM5MTIzMzA6c3B
## 110
                  https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE3MzM5MTIzMzA6c3B
                  https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE3MzM5MTIzMzA6c3B
## 111
                     https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU30jE3MzM5MTIzMzA6
## 112
                     https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE3MzM5MTIzMzA6
## 113
                     https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE3MzM5MTIzMzA6
## 114
## 115
                     https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU30jE3MzM5MTIzMzA6
## 116
                     https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE3MzM5MTIzMzA6
## 117
                     https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE3MzM5MTIzMzA6
                     https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE3MzM5MTIzMzA6
## 118
## 119
                     https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE3MzM5MTIzMzA6
## 120
                     https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE3MzM5MTIzMzA6
## 121
                     https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU30jE3MzM5MTIzMzA6
##
  122
                   https://amazon.com/sspa/click?ie=UTF8&spc=MToxNDU1MjY4MzA3OTk5MTU3OjE3MzM5MTIzMzA6c3
##
       Description Price Rating
## 1
                     699.
                            4.2
## 2
                      99.
                            4.4
## 3
                     129.
                            4.6
```

| шш | 1        | 100        | 1 0 |
|----|----------|------------|-----|
| ## | 4        | 129.       | 4.6 |
| ## | 5        | 129.       | 4.6 |
| ## | 6        | 129.       | 4.6 |
| ## | 7        | 129.       | 4.6 |
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| ## | 9        | 129.       | 4.6 |
| ## | 10       | 129.       | 4.6 |
| ## | 11       | 129.       | 4.6 |
| ## | 12       | 129.       | 4.6 |
| ## | 13       | 149.       | 4.5 |
| ## | 14       | 69.        | 4.6 |
| ## | 15       | 169.       | 4.8 |
| ## | 16       | 36.        | 4.6 |
|    | 17       | 6.         |     |
| ## |          |            | 4.6 |
| ## | 18       | 1,272.     | 4.3 |
| ## | 19       | 1,272.     | 4.3 |
| ## | 20       | 1,272.     | 4.3 |
| ## | 21       | 1,272.     | 4.3 |
| ## | 22       | 1,272.     | 4.3 |
| ## | 23       | 1,272.     | 4.3 |
| ## | 24       | 1,272.     | 4.3 |
| ## | 25       | 1,272.     | 4.3 |
| ## | 26       | 1,272.     | 4.3 |
| ## | 27       | 1,272.     | 4.3 |
| ## | 28       | 163.       | 4.4 |
| ## | 29       | 163.       | 4.4 |
| ## | 30       | 163.       | 4.4 |
| ## | 31       | 163.       | 4.4 |
| ## | 32       | 163.       | 4.4 |
| ## | 33       | 163.       | 4.4 |
| ## | 34       | 163.       | 4.4 |
| ## | 35       | 163.       | 4.4 |
| ## | 36       | 163.       | 4.4 |
| ## | 37       | 163.       | 4.4 |
| ## | 38       | 26.        | 4.2 |
| ## | 39       | 99.        | 4.4 |
| ## | 40       | 85.        | 4.3 |
| ## | 41       | 199.       |     |
| ## | 42       | 299.       |     |
| ## | 43       | 27.        | 4.4 |
| ## | 44       | 19.        | 4.8 |
| ## | 45       | 19.        | 4.8 |
| ## | 46       | 19.        | 4.8 |
| ## | 47       | 19.        | 4.8 |
| ## | 48       | 19.        | 4.8 |
| ## | 49       | 19.        | 4.8 |
| ## | 50       | 19.        | 4.8 |
| ## | 51       | 19.        | 4.8 |
| ## | 52       | 19.        | 4.8 |
| ## | 53       | 19.<br>19. |     |
|    |          |            | 4.8 |
| ## | 54<br>55 | 97.        | 4.5 |
| ## | 55       | 24.        | 4.8 |
| ## | 56       | 11.        | 4.7 |
| ## | 57       | 11.        | 4.7 |

| ## | 58  | 11.  | 4.7 |
|----|-----|------|-----|
| ## | 59  | 11.  | 4.7 |
| ## | 60  | 11.  | 4.7 |
| ## | 61  | 11.  | 4.7 |
| ## | 62  | 11.  | 4.7 |
| ## | 63  | 11.  | 4.7 |
| ## | 64  | 11.  | 4.7 |
| ## | 65  | 11.  | 4.7 |
| ## | 66  | 199. | 4.6 |
| ## | 67  | 199. | 4.6 |
| ## | 68  | 199. | 4.6 |
| ## | 69  | 199. | 4.6 |
| ## | 70  | 199. | 4.6 |
| ## | 71  | 199. | 4.6 |
| ## | 72  | 199. | 4.6 |
| ## | 73  | 199. | 4.6 |
| ## | 74  | 199. | 4.6 |
| ## | 75  | 199. | 4.6 |
| ## | 76  | 279. | 4.2 |
| ## | 77  | 279. | 4.4 |
| ## | 78  | 299. | 4.6 |
| ## | 79  | 259. | 4.6 |
| ## | 80  | 174. | 4.8 |
| ## | 81  | 174. | 4.8 |
| ## | 82  | 174. | 4.8 |
| ## | 83  | 174. | 4.8 |
| ## | 84  | 174. | 4.8 |
| ## | 85  | 174. | 4.8 |
| ## | 86  | 174. | 4.8 |
| ## | 87  | 174. | 4.8 |
| ## | 88  | 174. | 4.8 |
| ## | 89  | 174. | 4.8 |
| ## | 90  | 217. | 4.4 |
| ## | 91  | 34.  | 4.4 |
| ## | 92  | 21.  | 4.7 |
| ## | 93  | 21.  | 4.7 |
| ## | 94  | 21.  | 4.7 |
| ## | 95  | 21.  | 4.7 |
| ## | 96  | 21.  | 4.7 |
| ## | 97  | 21.  | 4.7 |
| ## | 98  | 21.  | 4.7 |
| ## | 99  | 21.  | 4.7 |
| ## | 100 | 21.  | 4.7 |
| ## | 101 | 21.  | 4.7 |
| ## | 102 | 109. | 4.9 |
| ## | 103 | 109. | 4.9 |
| ## | 104 | 109. | 4.9 |
| ## | 105 | 109. | 4.9 |
| ## | 106 | 109. | 4.9 |
| ## | 107 | 109. | 4.9 |
| ## | 108 | 109. | 4.9 |
| ## | 109 | 109. | 4.9 |
| ## | 110 | 109. | 4.9 |
| ## | 111 | 109. | 4.9 |
|    |     |      |     |

| ## 112 | 29. | 3.9 |
|--------|-----|-----|
| ## 113 | 29. | 3.9 |
| ## 114 | 29. | 3.9 |
| ## 115 | 29. | 3.9 |
| ## 116 | 29. | 3.9 |
| ## 117 | 29. | 3.9 |
| ## 118 | 29. | 3.9 |
| ## 119 | 29. | 3.9 |
| ## 120 | 29. | 3.9 |
| ## 121 | 29. | 3.9 |
| ## 122 | 49. | 4.1 |
| ##     |     |     |
| ## 1   |     |     |
| ## 2   |     |     |
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| ## 4   |     |     |
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| ## 39  |     |     |
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## 40 ## 41 ## 42

```
## 43
## 44
my camera handles it effortlessly. The durability of this card is also impressive; it's temperature-proo
it will elevate your creativity and passion for photography and videography to new heights!
## 47
## 48
## 49
## 50
## 51
## 52
## 53
## 54
## 55
## 56
## 57
## 58 In the ever-growing world of digital storage, finding a memory card that balances performance, r
it is waterproof, shockproof, temperature-proof, and X-ray-proof. This ruggedness ensures that your val
simply insert it into your device, and it's ready to go. The card maintains consistent performance over
from expanding your smartphone's storage to serving as a reliable medium for your digital camera. This
## 59
## 60
## 61
## 62
installation was simple, and the card has been working smoothly. The 100MB/s read speed and reliable st
## 64
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## 80
it's a noticeable difference from my previous drive. Whether you're gaming, editing large files, or run
speed, reliability, and capacity. If you're serious about gaming, content creation, or simply want to in
## 81
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```

```
## 89
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but this behemoth has left me wondering how I ever managed with smaller capacities!**Pros:**1. **Massiv
this card withstands extreme temperatures, water, and shocks, ensuring your data remains safe.4. **Comp
invest in this incredible microSDXC card! The SanDisk 1.5TB Ultra is a worthy addition to any tech enth
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## 111
## 112
## 113
## 114
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## 116
## 117
## 118
## 119
## 120
## 121
## 122
library(rvest)
library(polite)
#product_4 with reviews
# Define the URL for Backpacks category
url3 <- "https://www.amazon.com/s?i=fashion-luggage&bbn=16225017011&rh=n%3A7141123011%2Cn%3A16225017011
# Create a polite session
session3 <- bow(url3, user_agent = "Educational")</pre>
session_page3 <- scrape(session3)</pre>
# Find all div elements with the specified class
div_elements3 <- html_nodes(session_page3, 'div.sg-col-4-of-24.sg-col-4-of-12.s-result-item.s-asin.sg-c
# Create a list to store product data
product_data3 <- list()</pre>
```

```
for (div_element3 in div_elements3[1:30]) {
  # Find product link
  a_elem <- html_node(div_element3, 'a.a-link-normal.s-no-outline')</pre>
  link3 <- ifelse(!is.na(a elem), paste0("https://amazon.com", html attr(a elem, "href")), '')
  # Find product description
  description_elem <- html_node(div_element3, 'span.a-size-base-plus.a-color-base.a-text-normal')</pre>
  description3 <- ifelse(!is.na(description elem), html text(description elem), '')</pre>
  # Find product price
  price_elem <- html_node(div_element3, 'span.a-price-whole')</pre>
  price3 <- ifelse(!is.na(price_elem), html_text(price_elem), '')</pre>
  # Find product rating
  rating_elem <- html_node(div_element3, 'span.a-icon-alt')
  rating3 <- ifelse(!is.na(rating_elem), html_text(rating_elem), '')</pre>
  rating3 <- gsub("out of 5 stars", "", rating3, fixed = TRUE)</pre>
  # Scrape reviews for each product
  reviews3 <- character()
  if (link3 != '') {
    # Access the product reviews section
    review_url3 <- pasteO(link3, "#customerReviews")</pre>
    tryCatch({
      review page3 <- read html(review url3)</pre>
      review_elements3 <- html_nodes(review_page3, 'span[data-hook="review-body"] span')</pre>
      reviews3 <- html_text(review_elements3)</pre>
      # Limit to the first 10 reviews
      reviews3 <- reviews3[1:min(10, length(reviews3))]</pre>
    }, error = function(e) {
      reviews <- rep(NA, 10) # Fill with NAs if there are no reviews
    })
  }
  # Append product data and reviews to the list
  product_data3 <- append(product_data3, list(data.frame(</pre>
   Link = rep(link3, length(reviews3)),
    Description = rep(description3, length(reviews3)),
    Price = rep(price3, length(reviews3)),
    Rating = rep(rating3, length(reviews3)),
    Review = reviews3
 )))
# Combine all product data into one data frame
backpacks_reviews_df <- do.call(rbind, product_data3)</pre>
# Save to CSV
write.csv(backpacks_reviews_df, "backpacksprod_reviews.csv", row.names = FALSE)
print("Data saved to 'backpacksprod_reviews.csv'")
```

```
## [1] "Data saved to 'backpacksprod_reviews.csv'"
backpacks_reviews_df
##
## 1
## 2
## 3
## 4
## 5
## 6
## 7
## 8
## 9
## 10
## 11
## 12
## 13
## 14
## 15
## 16
## 17
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## 41
## 42
## 43
## 44
## 45
                                      https://amazon.com/LOVEVOOK-Backpack-Backpacks-Waterproof-Black-White-Brown/dp/BOBPX6DNRG/ref=sr
## 46
## 47
                                        https://amazon.com/LOVEVOOK-Backpack-Backpacks-Waterproof-Black-White-Brown/dp/BOBPX6DNRG/ref=sr
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                    https://amazon.com/ZOMFELT-Backpack-Approved-Personal-Weekender/dp/BODDCTXDBY/ref=sr
##
       Description Price Rating
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      Years ago, I realized that life is much better and it is totally worth it to get the best qualit
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