lab_exercise#2_Olivo

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SCRAPING FOR 50

product1 - STAEDTLER 121-2 BK5D Noris School Graphite Pencils - HB Degree (Pack of 5), Black 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)
product1 <- data.frame()</pre>
for (page in 1:5) {
  link1 <- paste0("https://www.amazon.com.au/HB-Pack-Staedtler-Pencil-Blister/product-reviews/B001P5V47"
  session1 <- bow(link1, user_agent = "Educational Purpose")</pre>
  scrapeNodes <- function(selector) {</pre>
    scrape(session1) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }
  productName <- "STAEDTLER 121-2 BK5D Noris School Graphite Pencils - HB Degree (Pack of 5), Black"
  scrapedTitle <- scrapeNodes("span.a-size-base.review-title.a-color-base.review-title-content.a-text-b</pre>
  scrapedReviewer <- scrapeNodes("span.a-profile-name")[1:10]</pre>
  scrapedReview <- scrapeNodes("span.a-size-base.review-text.review-text-content")[1:10]</pre>
  scrapedDate <- scrapeNodes("span.a-size-base.a-color-secondary.review-date")[1:10]</pre>
  scrapedRating <- scrapeNodes("span.a-icon-alt")[1:10]</pre>
  scrapedType <- scrapeNodes("span.a-size-mini.a-color-state.a-text-bold")[1:10]</pre>
  product1 <- rbind(product1, data.frame(</pre>
    prod_name = productName,
    title = scrapedTitle,
```

```
reviewer = scrapedReviewer,
  review = scrapedReview,
  date = scrapedDate,
  ratings = scrapedRating,
  type_of_purchase = scrapedType
))

#Sys.sleep(3)
}

#View(product1)
```

product2 - STAEDTLER NORIS SCHOOL PENCILS HB [PACK OF 50) LOOSE

```
library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
product2 <- data.frame()</pre>
for (page in 1:5) {
  link2 <- paste0("https://www.amazon.com.au/STAEDTLER-Noris-School-Pencils-Loose/product-reviews/B00Z7
  session2 <- bow(link2, user_agent = "Educational Purpose")</pre>
  scrapeNodes <- function(selector) {</pre>
    scrape(session2) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }
  productName <- "STAEDTLER NORIS SCHOOL PENCILS HB [PACK OF 50) LOOSE"
  scrapedTitle <- scrapeNodes("span.a-size-base.review-title.a-color-base.review-title-content.a-text-b</pre>
  scrapedReviewer <- scrapeNodes("span.a-profile-name")[1:10]</pre>
  scrapedReview <- scrapeNodes("span.a-size-base.review-text.review-text-content")[1:10]</pre>
  scrapedDate <- scrapeNodes("span.a-size-base.a-color-secondary.review-date")[1:10]</pre>
  scrapedRating <- scrapeNodes("span.a-icon-alt")[1:10]</pre>
  scrapedType <- scrapeNodes("span.a-size-mini.a-color-state.a-text-bold")[1:10]</pre>
  product2 <- rbind(product2, data.frame(</pre>
    prod_name = productName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
   review = scrapedReview,
    date = scrapedDate,
   ratings = scrapedRating,
    type_of_purchase = scrapedType
  ))
  #Sys.sleep(3)
#View(product2)
```

product3 - BIC Evolution Original Pencils - Pack of 10 - All-Purpose, Extra- Resistant Erasable Pencils for Easy Drawing and Writing, black

```
library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
product3 <- data.frame()</pre>
for (page in 1:5) {
  link3 <- paste0("https://www.amazon.com.au/BIC-Evolution-Original-Graphite-Pencils/product-reviews/BO
  session3 <- bow(link3, user_agent = "Educational Purpose")</pre>
  scrapeNodes <- function(selector) {</pre>
    scrape(session3) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }
  productName <- "BIC Evolution Original Pencils - Pack of 10 - All-Purpose, Extra- Resistant Erasable
  scrapedTitle <- scrapeNodes("span.a-size-base.review-title.a-color-base.review-title-content.a-text-b
  scrapedReviewer <- scrapeNodes("span.a-profile-name")[1:10]</pre>
  scrapedReview <- scrapeNodes("span.a-size-base.review-text.review-text-content")[1:10]</pre>
  scrapedDate <- scrapeNodes("span.a-size-base.a-color-secondary.review-date")[1:10]</pre>
  scrapedRating <- scrapeNodes("span.a-icon-alt")[1:10]</pre>
  scrapedType <- scrapeNodes("span.a-size-mini.a-color-state.a-text-bold")[1:10]</pre>
  product3 <- rbind(product3, data.frame(</pre>
    prod_name = productName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_purchase = scrapedType
  ))
  #Sys.sleep(3)
#View(product3)
```

product4 - BIC Cristal Original Ballpoint , Comfortable Biro Pens, Medium Point (1.0mm), Assorted Colours, Pack of 10

```
library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
product4 <- data.frame()</pre>
```

```
for (page in 1:5) {
  link4 <- paste0("https://www.amazon.com.au/Cristal-Original-Ballpoint-Medium-Point/product-reviews/B0
  session4 <- bow(link4, user_agent = "Educational Purpose")</pre>
  scrapeNodes <- function(selector) {</pre>
    scrape(session4) %>%
      html_nodes(selector) %>%
      html text(trim = TRUE)
  }
  productName <- "BIC Cristal Original Ballpoint , Comfortable Biro Pens, Medium Point (1.0mm), Assorte
  scrapedTitle <- scrapeNodes("span.a-size-base.review-title.a-color-base.review-title-content.a-text-b</pre>
  scrapedReviewer <- scrapeNodes("span.a-profile-name")[1:10]</pre>
  scrapedReview <- scrapeNodes("span.a-size-base.review-text.review-text-content")[1:10]</pre>
  scrapedDate <- scrapeNodes("span.a-size-base.a-color-secondary.review-date")[1:10]</pre>
  scrapedRating <- scrapeNodes("span.a-icon-alt")[1:10]</pre>
  scrapedType <- scrapeNodes("span.a-size-mini.a-color-state.a-text-bold")[1:10]</pre>
  product4 <- rbind(product4, data.frame(</pre>
    prod_name = productName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_purchase = scrapedType
  ))
  #Sys.sleep(3)
#View(product4)
product5 - BIC Evolution Graphite Pencils - Box of 12 - HB Lead with Colourful Striped Design - Wood-Free
and Splinter-Proof, Yellow, Green, Pink, Red, Black
library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
product5 <- data.frame()</pre>
for (page in 1:5) {
  link5 <- paste0("https://www.amazon.com.au/BIC-Evolution-Colourful-Graphite-Pencil/product-reviews/B0
```

session5 <- bow(link5, user_agent = "Educational Purpose")</pre>

scrapeNodes <- function(selector) {</pre>

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

scrape(session5) %>%

}

```
productName <- "BIC Evolution Graphite Pencils - Box of 12 - HB Lead with Colourful Striped Design - "
  scrapedTitle <- scrapeNodes("span.a-size-base.review-title.a-color-base.review-title-content.a-text-b</pre>
  scrapedReviewer <- scrapeNodes("span.a-profile-name")[1:10]</pre>
  scrapedReview <- scrapeNodes("span.a-size-base.review-text.review-text-content")[1:10]</pre>
  scrapedDate <- scrapeNodes("span.a-size-base.a-color-secondary.review-date")[1:10]</pre>
  scrapedRating <- scrapeNodes("span.a-icon-alt")[1:10]</pre>
  scrapedType <- scrapeNodes("span.a-size-mini.a-color-state.a-text-bold")[1:10]</pre>
  product5 <- rbind(product5, data.frame(</pre>
    prod_name = productName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_purchase = scrapedType
  ))
  Sys.sleep(3)
#View(product5)
product6 - Faber-Castell TK-Fine-9760 Mechanical Pencils Wallet of 3 - 0.35, 0.5, 0.7mm, Green
library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
product6 <- data.frame()</pre>
for (page in 3:7) {
  link6 <- paste0("https://www.amazon.com.au/Faber-Castell-TK-Fine-9713-Mechanical-Pencils-Wallet/produ
  session6 <- bow(link6, user_agent = "Educational Purpose")</pre>
  scrapeNodes <- function(selector) {</pre>
    scrape(session6) %>%
      html_nodes(selector) %>%
      html text(trim = TRUE)
  }
  productName <- "Faber-Castell TK-Fine-9760 Mechanical Pencils Wallet of 3 - 0.35, 0.5, 0.7mm, Green"</pre>
  scrapedTitle <- scrapeNodes("span.a-size-base.review-title.a-color-base.review-title-content.a-text-b</pre>
  scrapedReviewer <- scrapeNodes("span.a-profile-name")[1:10]</pre>
  scrapedReview <- scrapeNodes("span.a-size-base.review-text.review-text-content")[1:10]</pre>
  scrapedDate <- scrapeNodes("span.a-size-base.a-color-secondary.review-date")[1:10]</pre>
  scrapedRating <- scrapeNodes("span.a-icon-alt")[1:10]</pre>
  scrapedType <- scrapeNodes("span.a-size-mini.a-color-state.a-text-bold")[1:10]</pre>
  product6 <- rbind(product6, data.frame(</pre>
    prod_name = productName,
    title = scrapedTitle,
```

```
reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_purchase = scrapedType
  ))
  #Sys.sleep(3)
#View(product6)
product7 - STAEDTLER 120-0 Noris Graphite Pencils - 2B (Box of 12), Black
library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
product7 <- data.frame()</pre>
for (page in 3:7) {
  link7 <- paste0("https://www.amazon.com.au/Staedtler-120-0-Noris-Pencils-Black/product-reviews/B0018L
  session7 <- bow(link7, user_agent = "Educational Purpose")</pre>
  scrapeNodes <- function(selector) {</pre>
    scrape(session7) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }
  productName <- "STAEDTLER 120-0 Noris Graphite Pencils - 2B (Box of 12), Black"
  scrapedTitle <- scrapeNodes("span.a-size-base.review-title.a-color-base.review-title-content.a-text-b</pre>
  scrapedReviewer <- scrapeNodes("span.a-profile-name")[1:10]</pre>
  scrapedReview <- scrapeNodes("span.a-size-base.review-text.review-text-content")[1:10]</pre>
  scrapedDate <- scrapeNodes("span.a-size-base.a-color-secondary.review-date")[1:10]</pre>
  scrapedRating <- scrapeNodes("span.a-icon-alt")[1:10]</pre>
  scrapedType <- scrapeNodes("span.a-size-mini.a-color-state.a-text-bold")[1:10]</pre>
  product7 <- rbind(product7, data.frame(</pre>
    prod_name = productName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_purchase = scrapedType
  ))
  #Sys.sleep(3)
#View(product7)
```

product8 - STAEDTLER 100B G6 Mars Lumograph Pencils, Black, Pack of 6

```
library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
product8 <- data.frame()</pre>
for (page in 3:7) {
  link8 <- paste0("https://www.amazon.com.au/STAEDTLER-100B-G6-Lumograph-Pencils/product-reviews/B018W0
  session8 <- bow(link8, user_agent = "Educational Purpose")</pre>
  scrapeNodes <- function(selector) {</pre>
    scrape(session8) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }
  productName <- "STAEDTLER 100B G6 Mars Lumograph Pencils, Black, Pack of 6"
  scrapedTitle <- scrapeNodes("span.a-size-base.review-title.a-color-base.review-title-content.a-text-b</pre>
  scrapedReviewer <- scrapeNodes("span.a-profile-name")[1:10]</pre>
  scrapedReview <- scrapeNodes("span.a-size-base.review-text.review-text-content")[1:10]</pre>
  scrapedDate <- scrapeNodes("span.a-size-base.a-color-secondary.review-date")[1:10]</pre>
  scrapedRating <- scrapeNodes("span.a-icon-alt")[1:10]</pre>
  scrapedType <- scrapeNodes("span.a-size-mini.a-color-state.a-text-bold")[1:10]</pre>
  product8 <- rbind(product8, data.frame(</pre>
    prod_name = productName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_purchase = scrapedType
  ))
  #Sys.sleep(3)
#View(product8)
```

product9 - Winsor & Newton 490008 Studio Collection Graphite Pencils, Set of 12, Professional Quality for Artists, for Sketching, Writing and Drawing

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

product9 <- data.frame()

for (page in 3:7) {</pre>
```

```
scrapeNodes <- function(selector) {</pre>
    scrape(session9) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }
  productName <- "Winsor & Newton 490008 Studio Collection Graphite Pencils, Set of 12, Professional Qu
  scrapedTitle <- scrapeNodes("span.a-size-base.review-title.a-color-base.review-title-content.a-text-b</pre>
  scrapedReviewer <- scrapeNodes("span.a-profile-name")[1:10]</pre>
  scrapedReview <- scrapeNodes("span.a-size-base.review-text.review-text-content")[1:10]</pre>
  scrapedDate <- scrapeNodes("span.a-size-base.a-color-secondary.review-date")[1:10]</pre>
  scrapedRating <- scrapeNodes("span.a-icon-alt")[1:10]</pre>
  scrapedType <- scrapeNodes("span.a-size-mini.a-color-state.a-text-bold")[1:10]</pre>
  product9 <- rbind(product9, data.frame(</pre>
    prod_name = productName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_purchase = scrapedType
  ))
  #Sys.sleep(3)
#View(product9)
product10 - Bic Kids Evolution ECOlutions Colouring Pencils, Assorted Colours, Eco-Friendly, 70 g,12 Count
(Pack of 1)
library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
product10 <- data.frame()</pre>
for (page in 6:10) {
  link10 <- paste0("https://www.amazon.com.au/Bic-Evolution-ECOlutions-Colouring-Eco-Friendly/product-r
  session10 <- bow(link10, user_agent = "Educational Purpose")</pre>
  scrapeNodes <- function(selector) {</pre>
    scrape(session10) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }
  productName <- "Bic Kids Evolution ECOlutions Colouring Pencils, Assorted Colours, Eco-Friendly, 70 g
```

link9 <- paste0("https://www.amazon.com.au/Winsor-Newton-884955064856-Precision-Sketching/product-rev

session9 <- bow(link9, user_agent = "Educational Purpose")</pre>

```
scrapedTitle <- scrapeNodes("span.a-size-base.review-title.a-color-base.review-title-content.a-text-b</pre>
  scrapedReviewer <- scrapeNodes("span.a-profile-name")[1:10]</pre>
  scrapedReview <- scrapeNodes("span.a-size-base.review-text.review-text-content")[1:10]</pre>
  scrapedDate <- scrapeNodes("span.a-size-base.a-color-secondary.review-date")[1:10]</pre>
  scrapedRating <- scrapeNodes("span.a-icon-alt")[1:10]</pre>
  scrapedType <- scrapeNodes("span.a-size-mini.a-color-state.a-text-bold")[1:10]</pre>
  product10 <- rbind(product10, data.frame(</pre>
    prod_name = productName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_purchase = scrapedType
  ))
  #Sys.sleep(3)
#View(product10)
product11 - Mechanical pencil Pentel PG1013-E GraphGear1000, line width 0.3 mm, rubber (Z2-1N), 1 piece
library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
product11 <- data.frame()</pre>
for (page in 3:7) {
  link11 <- paste0("https://www.amazon.com.au/Pentel-Graphgear-1000-Mechanical-Pencil/product-reviews/B
  session11 <- bow(link11, user_agent = "Educational Purpose")</pre>
  scrapeNodes <- function(selector) {</pre>
    scrape(session11) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }
  productName <- "Mechanical pencil Pentel PG1013-E GraphGear1000, line width 0.3 mm, rubber (Z2-1N), 1
  scrapedTitle <- scrapeNodes("span.a-size-base.review-title.a-color-base.review-title-content.a-text-b</pre>
  scrapedReviewer <- scrapeNodes("span.a-profile-name")[1:10]</pre>
  scrapedReview <- scrapeNodes("span.a-size-base.review-text.review-text-content")[1:10]</pre>
  scrapedDate <- scrapeNodes("span.a-size-base.a-color-secondary.review-date")[1:10]</pre>
  scrapedRating <- scrapeNodes("span.a-icon-alt")[1:10]</pre>
  scrapedType <- scrapeNodes("span.a-size-mini.a-color-state.a-text-bold")[1:10]</pre>
  product11 <- rbind(product11, data.frame(</pre>
    prod_name = productName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
```

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

#Sys.sleep(3)
}

#View(product11)

product12 - Derwent Graphic Soft Graphite Drawing Pencils, Ideal For Illustrating & Shading, Set Of 12,
```

product 12 - Derwent Graphic Soft Graphite Drawing Pencils, Ideal For Illustrating & Shading, Set Of 12, Professional Quality, 34215

```
library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
product12 <- data.frame()</pre>
for (page in 3:7) {
  link12 <- paste0("https://www.amazon.com.au/Derwent-34215-Graphic-Graphite-Professional/product-revie
  session12 <- bow(link12, user_agent = "Educational Purpose")</pre>
  scrapeNodes <- function(selector) {</pre>
    scrape(session12) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }
  productName <- "Derwent Graphic Soft Graphite Drawing Pencils, Ideal For Illustrating & Shading, Set
  scrapedTitle <- scrapeNodes("span.a-size-base.review-title.a-color-base.review-title-content.a-text-b</pre>
  scrapedReviewer <- scrapeNodes("span.a-profile-name")[1:10]</pre>
  scrapedReview <- scrapeNodes("span.a-size-base.review-text.review-text-content")[1:10]</pre>
  scrapedDate <- scrapeNodes("span.a-size-base.a-color-secondary.review-date")[1:10]</pre>
  scrapedRating <- scrapeNodes("span.a-icon-alt")[1:10]</pre>
  scrapedType <- scrapeNodes("span.a-size-mini.a-color-state.a-text-bold")[1:10]</pre>
  product12 <- rbind(product12, data.frame(</pre>
    prod_name = productName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_purchase = scrapedType
  ))
  #Sys.sleep(3)
#View(product12)
```

```
product13 - Faber-Castell - Castell 9000 Art Set Pencil (Pack of 6), Green
```

library(dplyr)

```
library(rvest)
library(polite)
library(httr)
library(selectr)
product13 <- data.frame()</pre>
for (page in 3:7) {
  link13 <- paste0("https://www.amazon.com.au/Faber-Castell-Castell-9000-Pencil-Pack/product-reviews/B0
  session13 <- bow(link13, user_agent = "Educational Purpose")</pre>
  scrapeNodes <- function(selector) {</pre>
    scrape(session13) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }
  productName <- "Faber-Castell - Castell 9000 Art Set Pencil (Pack of 6), Green"</pre>
  scrapedTitle <- scrapeNodes("span.a-size-base.review-title.a-color-base.review-title-content.a-text-b
  scrapedReviewer <- scrapeNodes("span.a-profile-name")[1:10]</pre>
  scrapedReview <- scrapeNodes("span.a-size-base.review-text.review-text-content")[1:10]</pre>
  scrapedDate <- scrapeNodes("span.a-size-base.a-color-secondary.review-date")[1:10]</pre>
  scrapedRating <- scrapeNodes("span.a-icon-alt")[1:10]</pre>
  scrapedType <- scrapeNodes("span.a-size-mini.a-color-state.a-text-bold")[1:10]</pre>
  product13 <- rbind(product13, data.frame(</pre>
    prod_name = productName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_purchase = scrapedType
  ))
  #Sys.sleep(3)
#View(product13)
product14 - Bic - Evolution Triangle - Triangular Pencils with Integrated Eraser - HB - Box of 12
library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
product14 <- data.frame()</pre>
for (page in 3:7) {
  link14 <- paste0("https://www.amazon.com.au/Evolution-Triangular-Pencils-Integrated-Eraser/product-re
```

```
scrape(session14) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }
  productName <- "Bic - Evolution Triangle - Triangular Pencils with Integrated Eraser - HB - Box of 12
  scrapedTitle <- scrapeNodes("span.a-size-base.review-title.a-color-base.review-title-content.a-text-b</pre>
  scrapedReviewer <- scrapeNodes("span.a-profile-name")[1:10]</pre>
  scrapedReview <- scrapeNodes("span.a-size-base.review-text.review-text-content")[1:10]</pre>
  scrapedDate <- scrapeNodes("span.a-size-base.a-color-secondary.review-date")[1:10]</pre>
  scrapedRating <- scrapeNodes("span.a-icon-alt")[1:10]</pre>
  scrapedType <- scrapeNodes("span.a-size-mini.a-color-state.a-text-bold")[1:10]</pre>
  product14 <- rbind(product14, data.frame(</pre>
    prod_name = productName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_purchase = scrapedType
  ))
  #Sys.sleep(3)
#View(product14)
product15 - STAEDTLER 7755ABK25D Mars Micro Mechanical Pencil, 0.5mm (Blistercard of 1 + 12 HB
Lead Refills)
library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
product15 <- data.frame()</pre>
for (page in 1:5) {
  link15 <- paste0("https://www.amazon.com.au/Staedtler-Micro-7755ABK25D-Mechanical-Pencil/product-revi
  session15 <- bow(link15, user_agent = "Educational Purpose")</pre>
  scrapeNodes <- function(selector) {</pre>
    scrape(session15) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }
  productName <- "STAEDTLER 7755ABK25D Mars Micro Mechanical Pencil, 0.5mm (Blistercard of 1 + 12 HB Le
  scrapedTitle <- scrapeNodes("span.a-size-base.review-title.a-color-base.review-title-content.a-text-b
```

session14 <- bow(link14, user_agent = "Educational Purpose")</pre>

scrapeNodes <- function(selector) {</pre>

```
scrapedReviewer <- scrapeNodes("span.a-profile-name")[1:10]</pre>
  scrapedReview <- scrapeNodes("span.a-size-base.review-text.review-text-content")[1:10]</pre>
  scrapedDate <- scrapeNodes("span.a-size-base.a-color-secondary.review-date")[1:10]</pre>
  scrapedRating <- scrapeNodes("span.a-icon-alt")[1:10]</pre>
  scrapedType <- scrapeNodes("span.a-size-mini.a-color-state.a-text-bold")[1:10]</pre>
  product15 <- rbind(product15, data.frame(</pre>
    prod name = productName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_purchase = scrapedType
  ))
  #Sys.sleep(3)
#View(product15)
product16 - Faber-Castell Goldfaber Artists' Graphite 4B Pencil
library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
product16 <- data.frame()</pre>
for (page in 1:5) {
  link16 <- paste0("https://www.amazon.com.au/Faber-Castell-Goldfaber-Artists-Graphite-Pencil/product-r
  session16 <- bow(link16, user_agent = "Educational Purpose")</pre>
  scrapeNodes <- function(selector) {</pre>
    scrape(session16) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }
  productName <- "Faber-Castell Goldfaber Artists' Graphite 4B Pencil"</pre>
  scrapedTitle <- scrapeNodes("span.a-size-base.review-title.a-color-base.review-title-content.a-text-b</pre>
  scrapedReviewer <- scrapeNodes("span.a-profile-name")[1:10]</pre>
  scrapedReview <- scrapeNodes("span.a-size-base.review-text.review-text-content")[1:10]</pre>
  scrapedDate <- scrapeNodes("span.a-size-base.a-color-secondary.review-date")[1:10]</pre>
  scrapedRating <- scrapeNodes("span.a-icon-alt")[1:10]</pre>
  scrapedType <- scrapeNodes("span.a-size-mini.a-color-state.a-text-bold")[1:10]</pre>
  product16 <- rbind(product16, data.frame(</pre>
    prod_name = productName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
```

```
date = scrapedDate,
    ratings = scrapedRating,
    type_of_purchase = scrapedType
  ))
  #Sys.sleep(3)
#View(product16)
product17 - Graphite Pencil - STABILO Exam Grade - Box of 12 - 2B
library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
product17 <- data.frame()</pre>
for (page in 1:5) {
  link17 <- paste0("https://www.amazon.com.au/Graphite-Pencil-STABILO-Exam-Grade/product-reviews/B0050H
  session17 <- bow(link17, user_agent = "Educational Purpose")</pre>
  scrapeNodes <- function(selector) {</pre>
    scrape(session17) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }
  productName <- "Graphite Pencil - STABILO Exam Grade - Box of 12 - 28"
  scrapedTitle <- scrapeNodes("span.a-size-base.review-title.a-color-base.review-title-content.a-text-b
  scrapedReviewer <- scrapeNodes("span.a-profile-name")[1:10]</pre>
  scrapedReview <- scrapeNodes("span.a-size-base.review-text.review-text-content")[1:10]</pre>
  scrapedDate <- scrapeNodes("span.a-size-base.a-color-secondary.review-date")[1:10]</pre>
  scrapedRating <- scrapeNodes("span.a-icon-alt")[1:10]</pre>
  scrapedType <- scrapeNodes("span.a-size-mini.a-color-state.a-text-bold")[1:10]</pre>
  product17 <- rbind(product17, data.frame(</pre>
    prod_name = productName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_purchase = scrapedType
  ))
  #Sys.sleep(3)
#View(product17)
```

product 18 - Faber-Castell Grip Plus Set 130997 Mechanical Pencil-Assorted Color

```
library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
product18 <- data.frame()</pre>
for (page in 1:5) {
  link18 <- paste0("https://www.amazon.com.au/Faber-Castell-130997-Mechanical-Pencil-Assorted-Color/pro
  session18 <- bow(link18, user_agent = "Educational Purpose")</pre>
  scrapeNodes <- function(selector) {</pre>
    scrape(session18) %>%
      html_nodes(selector) %>%
      html_text(trim = TRUE)
  }
  productName <- "Faber-Castell Grip Plus Set 130997 Mechanical Pencil-Assorted Color"</pre>
  scrapedTitle <- scrapeNodes("span.a-size-base.review-title.a-color-base.review-title-content.a-text-b</pre>
  scrapedReviewer <- scrapeNodes("span.a-profile-name")[1:10]</pre>
  scrapedReview <- scrapeNodes("span.a-size-base.review-text.review-text-content")[1:10]</pre>
  scrapedDate <- scrapeNodes("span.a-size-base.a-color-secondary.review-date")[1:10]</pre>
  scrapedRating <- scrapeNodes("span.a-icon-alt")[1:10]</pre>
  scrapedType <- scrapeNodes("span.a-size-mini.a-color-state.a-text-bold")[1:10]</pre>
  product18 <- rbind(product18, data.frame(</pre>
    prod_name = productName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_purchase = scrapedType
  ))
  #Sys.sleep(3)
#View(product18)
product19 - BIC Matic Original 0.7mm Mechanical Pencils 5 Pack, black
library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
product19 <- data.frame()</pre>
for (page in 1:5) {
  link19 <- paste0("https://www.amazon.com.au/Matic-Original-O-7mm-Mechanical-Pencils/product-reviews/B
  session19 <- bow(link19, user_agent = "Educational Purpose")</pre>
```

```
scrapeNodes <- function(selector) {</pre>
    scrape(session19) %>%
      html nodes(selector) %>%
      html_text(trim = TRUE)
  }
  productName <- "Faber-Castell Grip Plus Set 130997 Mechanical Pencil-Assorted Color"</pre>
  scrapedTitle <- scrapeNodes("span.a-size-base.review-title.a-color-base.review-title-content.a-text-b</pre>
  scrapedReviewer <- scrapeNodes("span.a-profile-name")[1:10]</pre>
  scrapedReview <- scrapeNodes("span.a-size-base.review-text.review-text-content")[1:10]</pre>
  scrapedDate <- scrapeNodes("span.a-size-base.a-color-secondary.review-date")[1:10]</pre>
  scrapedRating <- scrapeNodes("span.a-icon-alt")[1:10]</pre>
  scrapedType <- scrapeNodes("span.a-size-mini.a-color-state.a-text-bold")[1:10]</pre>
  product19 <- rbind(product19, data.frame(</pre>
    prod_name = productName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_purchase = scrapedType
  ))
  #Sys.sleep(3)
#View(product19)
product20 - BIC Matic Original 0.7mm Mechanical Pencils 5 Pack, black
library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
product20 <- data.frame()</pre>
for (page in 1:5) {
  link20 <- paste0("https://www.amazon.com.au/Rotring-0-7-800-Mechanical-Pencil/product-reviews/B00JEV9
  session20 <- bow(link20, user_agent = "Educational Purpose")</pre>
  scrapeNodes <- function(selector) {</pre>
    scrape(session20) %>%
      html nodes(selector) %>%
      html_text(trim = TRUE)
  }
  productName <- "Faber-Castell Grip Plus Set 130997 Mechanical Pencil-Assorted Color"
  scrapedTitle <- scrapeNodes("span.a-size-base.review-title.a-color-base.review-title-content.a-text-b</pre>
  scrapedReviewer <- scrapeNodes("span.a-profile-name")[1:10]</pre>
  scrapedReview <- scrapeNodes("span.a-size-base.review-text.review-text-content")[1:10]</pre>
  scrapedDate <- scrapeNodes("span.a-size-base.a-color-secondary.review-date")[1:10]</pre>
```

```
scrapedRating <- scrapeNodes("span.a-icon-alt")[1:10]
scrapedType <- scrapeNodes("span.a-size-mini.a-color-state.a-text-bold")[1:10]

product20 <- rbind(product20, data.frame(
    prod_name = productName,
    title = scrapedTitle,
    reviewer = scrapedReviewer,
    review = scrapedReview,
    date = scrapedDate,
    ratings = scrapedRating,
    type_of_purchase = scrapedType
))

#Sys.sleep(3)
}</pre>
```

FUNCTION TO MAKE SCRAPING EASIER (KAY KAPOY MAG ISA ISA)

```
library(dplyr)
library(rvest)
library(polite)
library(httr)
library(selectr)
scrapeAmazonReviews <- function(product_name, url_stub, pages) {</pre>
  product_df <- data.frame()</pre>
  for (page in pages) {
    link <- paste0("https://www.amazon.com.au/",url_stub,"/ref=cm_cr_arp_d_paging_btm_next_", page, "?i
    session <- bow(link, user_agent = "Educational Purpose")</pre>
    scrapeNodes <- function(selector) {</pre>
      scrape(session) %>%
        html_nodes(selector) %>%
        html_text(trim = TRUE)
    }
    scrapedTitle <- scrapeNodes("span.a-size-base.review-title.a-color-base.review-title-content.a-text</pre>
    scrapedReviewer <- scrapeNodes("span.a-profile-name")[1:10]</pre>
    scrapedReview <- scrapeNodes("span.a-size-base.review-text.review-text-content")[1:10]</pre>
    scrapedDate <- scrapeNodes("span.a-size-base.a-color-secondary.review-date")[1:10]</pre>
    scrapedRating <- scrapeNodes("span.a-icon-alt")[1:10]</pre>
    scrapedType <- scrapeNodes("span.a-size-mini.a-color-state.a-text-bold")[1:10]</pre>
    product_df <- rbind(product_df, data.frame(</pre>
      prod name = product name,
      title = scrapedTitle,
      reviewer = scrapedReviewer,
      review = scrapedReview,
      date = scrapedDate,
      ratings = scrapedRating,
      type_of_purchase = scrapedType
```

```
))
    Sys.sleep(3)
  return(product_df)
}
Scraping 21-30
product21 <- scrapeAmazonReviews(</pre>
  "Derwent Academy Colouring Pencils, Set of 24 in Tin Box, Blendable Multicolour Artist's Pencils, Ide
  "Derwent-2301938-Academy-Colouring-Multi-Color/product-reviews/B001XCWP02",
  3:7
)
product22 <- scrapeAmazonReviews(</pre>
  "Faber-Castell 111260 Colour Pencils (Pack of 60),3.5 x 18.6 x 21 cm; 399.16 Grams",
  "Faber-Castell-Colour-Pencils-Pack-60/product-reviews/B01FDKQG2W",
  6:10
)
product23 <- scrapeAmazonReviews(</pre>
  "Derwent Graphic Soft Graphite Drawing Pencils, Ideal For Illustrating & Shading, Set Of 12, Professi
  "Derwent-34215-Graphic-Graphite-Professional/product-reviews/B000J6BAV8",
  3:7
)
product24 <- scrapeAmazonReviews(</pre>
  "BIC Intensity colored pencils, triangular crayons, colored pencils for painting in 24 colors, in car-
  "Intensity-triangular-painting-cardboard-shatterproof/product-reviews/B075N1ZRWW",
  3:7
product25 <- scrapeAmazonReviews(</pre>
  "Multi-Talented Pencil - STABILO woody 3 in 1 - Pack of 10 - Assorted Colours with Sharpener",
  "Multi-talented-STABILO-assorted-colours-sharpener/product-reviews/B000FFR5KI",
  3:7
product26 <- scrapeAmazonReviews(</pre>
  "Royal & Langnickel sketching artist pencils - set of 12 drawing pencils 5H to 6B",
  "Royal-Langnickel-sketching-artist-pencils/product-reviews/B003B44N8W",
  3:7
product27 <- scrapeAmazonReviews(</pre>
 "Derwent Academy Watercolour Pencils, Set of 24 in Tin, Multicolour Artist's Pencils, Ideal for Wet of
```

```
"Derwent-2301942-Watercolour-Colouring-Multicolor/product-reviews/B001XCWPOW",
  3:7
)
product28 <- scrapeAmazonReviews(</pre>
  "STAEDTLER 2505HBBK2D Mars Micro Refill Leads for Mechanical Pencils - HB, 0.5mm (Blistercard of 2 x
  "STAEDTLER-2505HBBK2D-Refill-Mechanical-Pencils/product-reviews/B0012LCV94",
)
product29 <- scrapeAmazonReviews(</pre>
  "Pentel Ain Stein Mechanical Pencil Lead, 0.5mm HB, 40 Leads (C275-HB)",
  "Pentel-Stein-Pencil-Hardness-40-Leads/product-reviews/B004NNPWCG",
  3:7
)
product30 <- scrapeAmazonReviews(</pre>
  "ARTEZA Colouring Pencils, Professional Set of 72 Colours in a Tin Box, Soft Wax-Based Cores, for Dra
  "ARTEZA-Professional-Wax-Based-Sketching-Beginners/product-reviews/B076DHN68W",
  6:10
)
#View(product30)
Scraping 31-40
product31 <- scrapeAmazonReviews(</pre>
  "Staedtler 175 COC12 Hexagonal Colouring Pencils (Pack of 12)",
  "Staedtler-175-COC12-Hexagonal-Colouring/product-reviews/B07KY2WNTV",
  3:7
)
product32 <- scrapeAmazonReviews(</pre>
  "Pentel Arts Watercolour Pencil Set - Assorted, 24 Count (Pack of 1)",
  "Pentel-Arts-Watercolour-Pencil-Set/product-reviews/B01G8ACTOK",
)
product33 <- scrapeAmazonReviews(</pre>
  "Graphite Pencil - STABILO Othello - Pack of 12 - 2H",
  "Graphite-Pencil-STABILO-Othello-box/product-reviews/B005TQRYSG",
  3:7
)
product34 <- scrapeAmazonReviews(</pre>
  "STAEDTLER 100 G12 S Mars Lumograph Graphite Pencils for Drawing & Sketching - Assorted Degrees, 8B-2
  "Staedtler-100-G12-Lumograph-Pencils/product-reviews/B0010US8J0",
```

```
3:7
)
product35 <- scrapeAmazonReviews(</pre>
  "Derwent Charcoal Drawing Pencils, Drawing & Writing, Set Of 6 with Sharpener, Light, Medium, Dark &
  "Derwent-Charcoal-Sharpener-Professional-700838/product-reviews/B000PD3M7U",
  3:7
)
product36 <- scrapeAmazonReviews(</pre>
  "Ergonomic Graphite Pencil - STABILO EASYgraph - Left-Handed - Pack of 2 - Petrol - HB",
  "Handwriting-Pencil-STABILO-EASYgraph-Blister/product-reviews/B003WQFADG",
  3:7
)
product37 <- scrapeAmazonReviews(</pre>
  "Derwent Drawing Colouring Pencils, Drawing & Writing, Set Of 12, Ideal For Illustrating & Detailing,
  "Derwent-Coloured-Drawing-Professional-700671/product-reviews/B000J69WUO",
  3:7
)
product38 <- scrapeAmazonReviews(</pre>
  "Lyra 3 x Ferby Triangular Jumbo Chunky Pencils Pre School Writing Learning Art",
  "Triangular-Chunky-Pencils-Writing-Learning/product-reviews/B0114KJCYY",
  2:6
)
product39 <- scrapeAmazonReviews(</pre>
  "Triangular Colouring Pencil - STABILO Trio thick short - Pack of 12 - Assorted Colours",
  "Colouring-Pencil-STABILO-Assorted-Colours/product-reviews/B0000ZKBTG",
  3:7
)
product40 <- scrapeAmazonReviews(</pre>
  "rOtring 600 Mechanical Pencil | 0.7 mm | Blue All-Metal Body Propelling Pencil | Non-Slip Knurled Gr
  "rOtring-mechanical-Feinminenstift-Metallic-Hexagonal/product-reviews/B085T859JX",
  3:7
)
Scraping 41-50
product41 <- scrapeAmazonReviews(</pre>
  "Derwent34214 Graphic Medium Graphite Drawing Pencils, Set of 12, Professional Quality, Black",
  "Derwent34214-Graphic-Graphite-Drawing-Professional/product-reviews/B000J69KZQ",
  3:7
```

```
product42 <- scrapeAmazonReviews(</pre>
  "Faber-Castell TK-Fine-9760 Mechanical Pencils Wallet of 3 - 0.35, 0.5, 0.7mm, Green",
  "Faber-Castell-TK-Fine-9713-Mechanical-Pencils-Wallet/product-reviews/B000WF36E0",
  3:7
)
product43 <- scrapeAmazonReviews(</pre>
  "ARTEZA Professional Drawing Sketch Pencils Set of 12, Medium (6B - 4H), Art Supplies for Drawing Art
  \verb|"ARTEZA-Professional-Drawing-Sketch-Pencils/product-reviews/B077QS34CZ"|,
 1:5
)
product44 <- scrapeAmazonReviews(</pre>
  "STAEDTLER 144 50NC24 Noris Club Erasable Colouring Pencils - Assorted Colours, Pack of 24",
  "Staedtler-144-Erasable-Colouring-Pencils/product-reviews/B001B2QLC2",
  3:7
)
product45 <- scrapeAmazonReviews(</pre>
  "Faber-Castell Grip 1345 0.5mm Mechanical Pencil - Green ",
  "Faber-Castell-Grip-0-5mm-Mechanical-Pencil/product-reviews/B000KT7J96",\\
  3:7
product46 <- scrapeAmazonReviews(</pre>
  "Helix Oxford Hb Grade Graphite Pencils (Pack of 12) with Plastic Free Packaging Drawing",
  "Helix-Graphite-Pencils-Plastic-Packaging/product-reviews/B07ZDNXM8W",
  3:7
product47 <- scrapeAmazonReviews(</pre>
  "Bic Matic Original Mechanical Pencils, Perfect for School and Office Use, 0.7 mm Black (HB), Include
  "BIC-Matic-Original-Mechanical-Pencils/product-reviews/B000SHP5P0",
  3:7
)
product48 <- scrapeAmazonReviews(</pre>
  "BIC Evolution Graphite Pencils - Pack of 8 - HB Pencils with Eraser - Colourful Stripe Design and Sh
  "Evolution-Stripes-Eraser-Graphite-Pencils/product-reviews/B01MY2WA44",
  2:6
product49 <- scrapeAmazonReviews(</pre>
  "BIC Matic ECOlutions Mechanical Pencils - Box of 50 with Assorted Barrel Colours - 0.7 mm HB Friendl
  "Matic-ECOlutions-0-7mm-Mechanical-Pencils/product-reviews/B0039IVX02",
  3:7
)
```