```
R version 4.3.3 (2024-02-29) -- "Angel Food Cake"
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Platform: x86_64-pc-linux-gnu (64-bit)

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'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

> nlist.files()
Error in nlist.files() : could not find function "nlist.files"
> list.files()
[1] "data"           "languages.qmd"  "project.Rproj"  "README.qmd"
[5] "STB Vendor.csv"
> > df <- read.csv("STB BFM  Sheet - 2025 BFM Purchases.csv", stringsAsFactors = FALSE)
Error in file(file, "rt") : cannot open the connection
In addition: Warning message:
In file(file, "rt") :
  cannot open file 'STB BFM  Sheet - 2025 BFM Purchases.csv': No such file or directory
> names(df)
NULL
> > vendor_data <- df[, c("Vendor Name", "Wholesale")]
Error in df[, c("Vendor Name", "Wholesale")] :
  object of type 'closure' is not subsettable
Connected to your session in progress, last started 2025-Mar-24 13:51:47 UTC (4 minutes ago)
> file.info("STB BFM  Sheet - 2025 BFM Purchases.csv")
                                    size isdir mode mtime ctime atime uid gid
STB BFM  Sheet - 2025 BFM Purchases.csv   NA    NA <NA>  <NA>  <NA>  <NA>  NA  NA
                                    uname grname
STB BFM  Sheet - 2025 BFM Purchases.csv  <NA>   <NA>
> list.files()
[1] "data"                    "languages.qmd"           "project.Rproj"
[4] "README.qmd"              "STB BFM  Sheet (2).xlsx" "STB Vendor.csv"
>
> df <- read.csv("STB Vendor.csv")
> head(df)
              X        X.1              X.2        X.3                  X.4
1                                                    BFM CUSTOMER SERVICE
2  Service Type Order Date    Customer Name    Order #        Product Price
3 BFM + Courier   01/11/25    Aziz AlShaikh QA0986-001               $80.00
4   BFM Regular   01/14/25     Larry Guilfu PR0009-001              $999.00
5 BFM + Courier   01/14/25 Khalid Binhammad AE1886-043            $2,004.00
6 BFM + Courier   01/23/25    Hayder Odhafa IQ1093-019                $0.00
                   X.5     X.6            X.7           X.8
1
2 Other/\nDelivery Fee BFM Fee BFM Total Cost Payment Method
3                $0.00  $12.80         $92.80             CC
4                $0.00  $67.94      $1,066.94             CC
5                $0.00 $166.32      $2,170.32             CC
6                $0.00   $0.00          $0.00         Wallet
                                          X.9         X.10
1
2                          Transaction Confirmation Processed By
3                      txn_3QgpiVGLCkpZtDnF01JOyLez       Ghazzy
4                      txn_3QhZL7GLCkpZtDnF1nGfvYf9       Ghazzy
5                      txn_3QiGjaGLCkpZtDnF0fw8en5q       Ghazzy
6 863.50 USD / 0.00 (2025-02-05 08:52:23) My Credit       Ghazzy
                X.11        X.12     X.13                  X.14
1 Purchase Department
2       Retailer Name   Category  Vendor # Original Product Cost
3               Asics    Footwear BFM10080                $80.00
4              AMAZON  E-commerce BFM10022               $999.00
5        Google Store Electronics BFM10059             $2,003.99
6            Digi-Key    Retailer BFM10287                 $0.00
```

	X.15
1	
2	Checkout Total Cost (Included Shipping Fee)
3	$80.00
4	$999.00
5	$2,003.99
6	$0.00

	X.16
1	
2	Estimated Charge/Refund Customer (Not Included BFM Fee)
3	$0.00
4	$0.00
5	$0.00
6	$0.00

	X.17	X.18
1		
2	Discount (Found By Admin Only)	Total Cost Paid To Seller
3	$0.00	$80.00
4	$0.00	$999.00
5	$300.00	$1,703.99
6	$0.00	$0.00

	X.19	X.20	X.21	X.22
1				
2	Purchase Financial Notes/Status (if any)	BFM Card	Purchased By	Purchase Date
3	None	5023 AMEX	Ghazzy	01/13/2025
4	None	5023 AMEX	Ghazzy	01/15/2025
5	None	5023 AMEX	Ghazzy	01/17/25
6	None	5023 AMEX	Ghazzy	01/24/25

	X.23	X.24	X.25	X.26
1				ANY DEPT
2	Purchase Conf. #	Delivery Address	BFM Order Status	Tracking Number(s)
3	ASCUS50440292	4060	Closed	432169322370
4	113-3972266-5389852	4060	Closed	1ZV7341J2933071649
5	GS.8708-5910-8651	HH	Closed	419030875057
6	90718704	HH	Refunded	440105438026

	X.27	X.28	X.29
1			
2	Courier(s)	ETA / Delivered Date	Package Status
3	FedEx	01/20/2025	Delivered to customer
4	Amazon	01/16/2025	Delivered to customer
5	FedEx	01/22/2025	Delivered to customer
6	FedEx	01/30/2025	Returned to seller

	X.30	X.31
1		
2	Expected Refund Total by Seller	Refunded Date by Seller (check with Finance)
3		
4		
5		
6		

	X.32	X.33
1		
2	Courier Shipped	STB tracking
3	FedEx	771659910407
4	FedEx	771510953726
5	FedEx	771663067389
6		

	X.34
1	ANY DEPT.
2	
3	QA0986-003
4	PR0009-003
5	AE1886-045
6	7.5 $ as the cst asked to return it\nChecked with Nader and the amount refunded to our card

	X.35	X.36	X.37	X.38
1	NA	NA	NA	
2	NA	NA	NA	Reviewed by
3	NA	NA	NA	
4	NA	NA	NA	
5	NA	NA	NA	
6	NA	NA	NA	

>

```
> df <- read.csv("STB Vendor.csv")
> head(df)
             X        X.1              X.2        X.3                  X.4
1                                                    BFM CUSTOMER SERVICE
2  Service Type Order Date    Customer Name    Order #         Product Price
3 BFM + Courier   01/11/25    Aziz AlShaikh QA0986-001                $80.00
4   BFM Regular   01/14/25     Larry Guilfu PR0009-001               $999.00
5 BFM + Courier   01/14/25 Khalid Binhammad AE1886-043             $2,004.00
6 BFM + Courier   01/23/25    Hayder Odhafa IQ1093-019                 $0.00
                   X.5     X.6            X.7            X.8
1
2 Other/\nDelivery Fee BFM Fee BFM Total Cost Payment Method
3                $0.00  $12.80          $92.80             CC
4                $0.00  $67.94       $1,066.94             CC
5                $0.00 $166.32       $2,170.32             CC
6                $0.00   $0.00           $0.00         Wallet
                                          X.9         X.10
1
2                          Transaction Confirmation Processed By
3                      txn_3QgpiVGLCkpZtDnF01JOyLez       Ghazzy
4                      txn_3QhZL7GLCkpZtDnF1nGfvYf9       Ghazzy
5                      txn_3QiGjaGLCkpZtDnF0fw8en5q       Ghazzy
6 863.50 USD / 0.00 (2025-02-05 08:52:23) My Credit       Ghazzy
                 X.11        X.12     X.13                  X.14
1 Purchase Department
2       Retailer Name   Category  Vendor # Original Product Cost
3               Asics    Footwear BFM10080                $80.00
4              AMAZON  E-commerce BFM10022               $999.00
5        Google Store Electronics BFM10059             $2,003.99
6            Digi-Key    Retailer BFM10287                 $0.00
                                    X.15
1
2 Checkout Total Cost (Included Shipping Fee)
3                                   $80.00
4                                  $999.00
5                                $2,003.99
6                                    $0.00
                                             X.16
1
2 Estimated Charge/Refund Customer (Not Included BFM Fee)
3                                             $0.00
4                                             $0.00
5                                             $0.00
6                                             $0.00
                           X.17                 X.18
1
2 Discount (Found By Admin Only) Total Cost Paid To Seller
3                           $0.00                $80.00
4                           $0.00               $999.00
5                         $300.00             $1,703.99
6                           $0.00                 $0.00
                                    X.19      X.20         X.21          X.22
1
2 Purchase Financial Notes/Status (if any)  BFM Card Purchased By Purchase Date
3                                   None 5023 AMEX       Ghazzy    01/13/2025
4                                   None 5023 AMEX       Ghazzy    01/15/2025
5                                   None 5023 AMEX       Ghazzy      01/17/25
6                                   None 5023 AMEX       Ghazzy      01/24/25
                X.23             X.24             X.25               X.26
1                                                                  ANY DEPT
2    Purchase Conf. # Delivery Address BFM Order Status Tracking Number(s)
3       ASCUS50440292             4060           Closed       432169322370
4 113-3972266-5389852             4060           Closed 1ZV7341J2933071649
5   GS.8708-5910-8651               HH           Closed       419030875057
6            90718704               HH         Refunded       440105438026
       X.27                X.28                 X.29
1
2 Courier(s) ETA / Delivered Date        Package Status
3      FedEx           01/20/2025 Delivered to customer
4     Amazon           01/16/2025 Delivered to customer
5      FedEx           01/22/2025 Delivered to customer
```

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6      FedEx           01/30/2025    Returned to seller
                              X.30                                                  X.31
1
2 Expected Refund Total by Seller Refunded Date by Seller (check with Finance)
3
4
5
6
     X.32                 X.33
1
2 Courier Shipped STB tracking
3   FedEx          771659910407
4   FedEx          771510953726
5   FedEx          771663067389
6
                                                                                      X.34
1                                                                                ANY DEPT.
2
3                                                                               QA0986-003
4                                                                               PR0009-003
5                                                                               AE1886-045
6 7.5 $ as the cst asked to return it\nChecked with Nader and the amount refunded to our card
  X.35 X.36 X.37        X.38
1   NA   NA   NA
2   NA   NA   NA Reviewed by
3   NA   NA   NA
4   NA   NA   NA
5   NA   NA   NA
6   NA   NA   NA
>
> colnames(df)
 [1] "X"    "X.1"  "X.2"  "X.3"  "X.4"  "X.5"  "X.6"  "X.7"  "X.8"  "X.9"  "X.10"
[12] "X.11" "X.12" "X.13" "X.14" "X.15" "X.16" "X.17" "X.18" "X.19" "X.20" "X.21"
[23] "X.22" "X.23" "X.24" "X.25" "X.26" "X.27" "X.28" "X.29" "X.30" "X.31" "X.32"
[34] "X.33" "X.34" "X.35" "X.36" "X.37" "X.38"
>
> # Read the CSV file
> df <- read.csv("STB Vendor.csv")
>
> # Extract only the needed columns
> df_selected <- df[, c("Retailer Name", "Category")]
Error in `[.data.frame`(df, , c("Retailer Name", "Category")) :
  undefined columns selected
> # Read the CSV file
> df <- read.csv("STB Vendor.csv", check.names = FALSE)
>
> # Check actual column names
> colnames(df)
 [1] "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" ""
[28] "" "" "" "" "" "" "" "" "" "" ""
>
> # Extract the correct column names
> df_selected <- df[, c(" Retailer Name", " Category")]  # Adjust names if needed
Error in `[.data.frame`(df, , c(" Retailer Name", " Category")) :
  undefined columns selected
> colnames(df)
 [1] "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" ""
[28] "" "" "" "" "" "" "" "" "" "" ""
>
> colnames(df) <- trimws(gsub("\\s+", " ", colnames(df)))  # Remove extra spaces
>
> df_selected <- df[, c("Retailer Name", "Category")]  # Adjust names if needed
Error in `[.data.frame`(df, , c("Retailer Name", "Category")) :
  undefined columns selected
> colnames(df)[grep("Retailer", colnames(df), ignore.case = TRUE)]
character(0)
> colnames(df)[grep("Category", colnames(df), ignore.case = TRUE)]
character(0)
>
> df <- read.csv("STB Vendor.csv", stringsAsFactors = FALSE, check.names = FALSE)
>
```

```
> colnames(df) <- trimws(gsub("[^[:alnum:] ]", "", colnames(df)))  # Remove special characters
> colnames(df) <- gsub("\\s+", " ", colnames(df))  # Remove extra spaces
> print(colnames(df))  # Check the cleaned column names
 [1] "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" ""
[28] "" "" "" "" "" "" "" "" "" "" "" ""
>
> df_cleaned <- df[, c("Retailer Name", "Category")]
Error in `[.data.frame`(df, , c("Retailer Name", "Category")) :
  undefined columns selected
> colnames(df)  # This will show all column names
 [1] "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" ""
[28] "" "" "" "" "" "" "" "" "" "" "" ""
>
> df <- read.csv("STB Vendor.csv", stringsAsFactors = FALSE, check.names = FALSE, header = TRUE, skip = 2)
>
> colnames(df)
 [1] "Service Type"
 [2] "Order Date"
 [3] "Customer Name"
 [4] "Order #"
 [5] "Product Price"
 [6] "Other/\nDelivery Fee"
 [7] "BFM Fee"
 [8] "BFM Total Cost"
 [9] "Payment Method"
[10] "Transaction Confirmation"
[11] "Processed By"
[12] "Retailer Name"
[13] "Category"
[14] "Vendor #"
[15] "Original Product Cost"
[16] "Checkout Total Cost (Included Shipping Fee)"
[17] "Estimated Charge/Refund Customer (Not Included BFM Fee)"
[18] "Discount (Found By Admin Only)"
[19] "Total Cost Paid To Seller"
[20] "Purchase Financial Notes/Status (if any)"
[21] "BFM Card"
[22] "Purchased By"
[23] "Purchase Date"
[24] "Purchase Conf. #"
[25] "Delivery Address"
[26] "BFM Order Status"
[27] "Tracking Number(s)"
[28] "Courier(s)"
[29] "ETA / Delivered Date"
[30] "Package Status"
[31] "Expected Refund Total by Seller"
[32] "Refunded Date by Seller (check with Finance)"
[33] "Courier"
[34] "Shipped STB tracking"
[35] ""
[36] ""
[37] ""
[38] ""
[39] "Reviewed by"
>
> df_cleaned <- df[, c("Retailer Name", "Category")]
> head(df_cleaned)
  Retailer Name    Category
1         Asics    Footwear
2        AMAZON  E-commerce
3  Google Store Electronics
4      Digi-Key    Retailer
5 Elegant Horse    Retailer
6         Ulta    Cosmetics
>
> df_cleaned <- df[, c("Retailer Name", "Category")]
> View(df_cleaned)  # Opens the full dataset in a viewer
>
> library(ggplot2)
>
```

```
> # Count occurrences of each category
> category_counts <- table(df_cleaned$Category)
>
> # Convert to data frame
> category_df <- as.data.frame(category_counts)
> colnames(category_df) <- c("Category", "Count")
>
> # Create the pie chart
> ggplot(category_df, aes(x = "", y = Count, fill = Category)) +
+     geom_bar(stat = "identity", width = 1) +
+     coord_polar(theta = "y") +
+     theme_void() +
+     ggtitle("Category Distribution of Retailers")
>
> # Remove blank or NA categories
> df_cleaned <- df_cleaned[df_cleaned$Category != "" & !is.na(df_cleaned$Category), ]
>
> # Create a frequency table
> category_counts <- table(df_cleaned$Category)
>
> # Plot the pie chart
> pie(category_counts, main = "Category Distribution", col = rainbow(length(category_counts)))
>
> # Set plot size (adjust as needed)
> par(mar = c(5, 5, 5, 5))  # Adjusts margins for better spacing
>
> # Remove blank or NA categories
> df_cleaned <- df_cleaned[df_cleaned$Category != "" & !is.na(df_cleaned$Category), ]
>
> # Create a frequency table
> category_counts <- table(df_cleaned$Category)
>
> # Define colors (better contrast)
> colors <- colorRampPalette(c("blue", "green", "purple", "orange", "red"))(length(category_counts))
>
> # Plot the larger, clearer pie chart
> pie(
+     category_counts,
+     main = "Category Distribution",
+     col = colors,
+     cex = 1.2,  # Enlarges labels
+     radius = 1  # Increases pie chart size
+ )
>
> write.csv(df_cleaned, "Brand_List.csv", row.names = FALSE)
>
> write.csv(df_cleaned, "Brand_List.csv", row.names = FALSE)
>
> library(readxl)
> dataset <- read_excel(NULL)
Error: `path` must be a string
> zip("My_Project.zip", list.files())
  adding: Brand_List.csv (deflated 65%)
  adding: Category distribution.png (deflated 9%)
  adding: data/ (stored 0%)
  adding: data/languages_raw.csv (deflated 49%)
  adding: data/languages.R (deflated 44%)
  adding: data/languages.csv (deflated 73%)
  adding: languages.qmd (deflated 63%)
  adding: project.Rproj (deflated 29%)
  adding: README.qmd (deflated 56%)
  adding: STB BFM  Sheet (2).xlsx (deflated 45%)
  adding: STB Vendor.csv (deflated 87%)
>
> writeLines(readLines("your_script.R"), "Code/analysis.R")
Error in file(con, "r") : cannot open the connection
In addition: Warning message:
In file(con, "r") :
  cannot open file 'your_script.R': No such file or directory
```