In [24]:
```r
# Read the CSV file with semicolon as the delimiter
data <- read.csv("e-shop clothing 2008.csv", sep = ";", header = TRUE)

head(data)
```

A data.frame: 6 × 14

	year	month	day	order	country	session.ID	page.1..main.category.	page.2..clothing.model.	c
	<int>	<int>	<int>	<int>	<int>	<int>	<int>	<chr>	
1	2008	4	1	1	29	1	1	A13	
2	2008	4	1	2	29	1	1	A16	
3	2008	4	1	3	29	1	2	B4	
4	2008	4	1	4	29	1	2	B17	
5	2008	4	1	5	29	1	2	B8	
6	2008	4	1	6	29	1	3	C56	

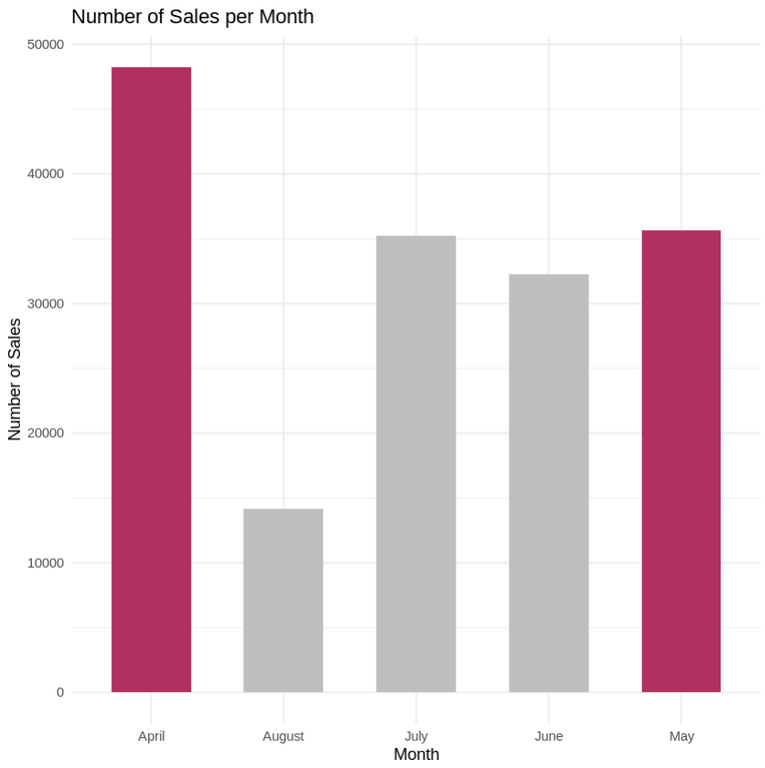
In [32]:
```r
# Load the dplyr package
library(dplyr)

# Create a new DataFrame with relevant columns
csdf <- data %>%
  select(month, day, `page.1..main.category.`, price)

# Rename the columns
csdf <- csdf %>%
  rename(Month = month, Day = day, Type = `page.1..main.category.`, Price = price)

# Replace values in the "Type" column
csdf$Type <- recode(csdf$Type, "1" = "Trousers", "2" = "Skirts", "3" = "Blouses", "4"

# Replace values in the "Month" column
csdf$Month <- recode(csdf$Month, "4" = "April", "5" = "May", "6" = "June", "7" = "July

# Print the first few rows of the new DataFrame
head(csdf)
```

A data.frame: 6 × 4

	Month	Day	Type	Price
	<chr>	<int>	<chr>	<int>
1	April	1	Trousers	28
2	April	1	Trousers	33
3	April	1	Skirts	52
4	April	1	Skirts	38
5	April	1	Skirts	52
6	April	1	Blouses	57

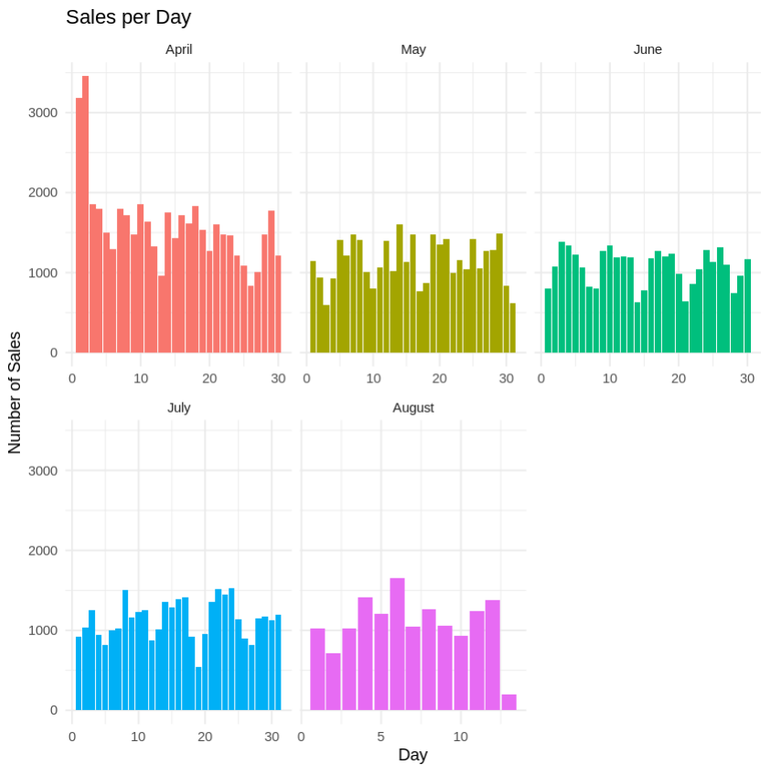
In [33]:
```r
# Assuming 'csdf' is your data frame
# Load the ggplot2 package
library(ggplot2)

# Count the number of goods sold each month
csmsm <- table(csdf$Month)

# Create a data frame for plotting
data <- data.frame(Month = names(csmsm), Sales = as.vector(csmsm))

# Create the bar plot
ggplot(data, aes(x = Month, y = Sales, fill = Month)) +
  geom_bar(stat = "identity", width = 0.6) +
  labs(title = "Number of Sales per Month",
       y = "Number of Sales") +
  scale_fill_manual(values = c("maroon", "gray", "gray", "gray", "maroon")) +
```

```
  theme_minimal() +
  theme(legend.position = "none")
```



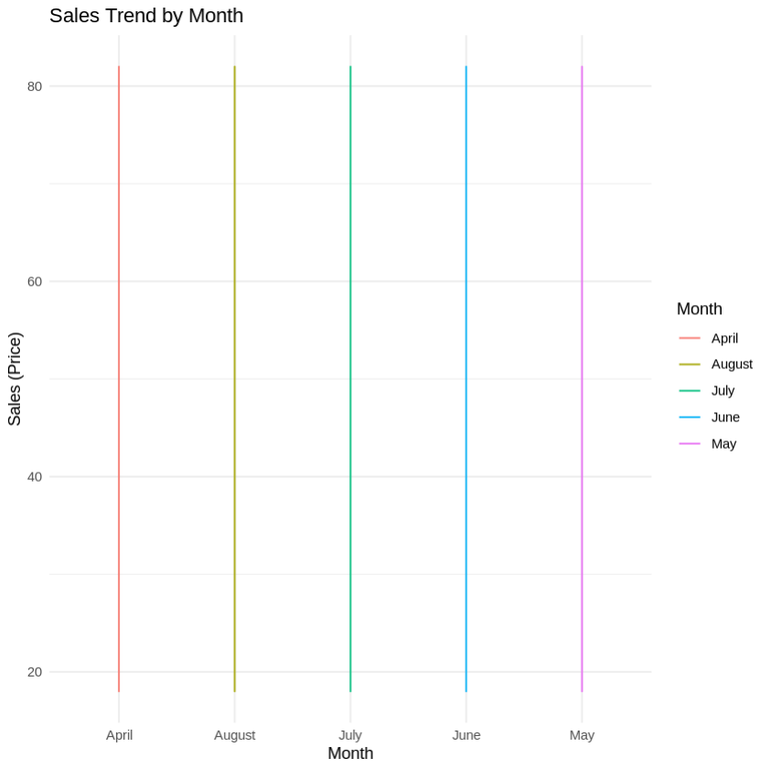
In [36]:

```
# Assuming 'csdf' is your data frame
# Load the ggplot2 package
library(ggplot2)

# Create data frames for each month
csap <- subset(csdf, Month == "April")
csmy <- subset(csdf, Month == "May")
csjn <- subset(csdf, Month == "June")
csjl <- subset(csdf, Month == "July")
csau <- subset(csdf, Month == "August")

# Combine all data frames into one
combined_df <- rbind(csap, csmy, csjn, csjl, csau)
combined_df$Month <- factor(combined_df$Month, levels = c("April", "May", "June", "Jul

# Create subplots with facets
p <- ggplot(combined_df, aes(x = Day)) +
  geom_bar(aes(fill = Month), position = "dodge") +
  labs(title = "Sales per Day", y = "Number of Sales") +
  theme_minimal() +
  theme(legend.position = "none") +
  facet_wrap(~Month, scales = "free_x")

print(p)
```



In [72]:

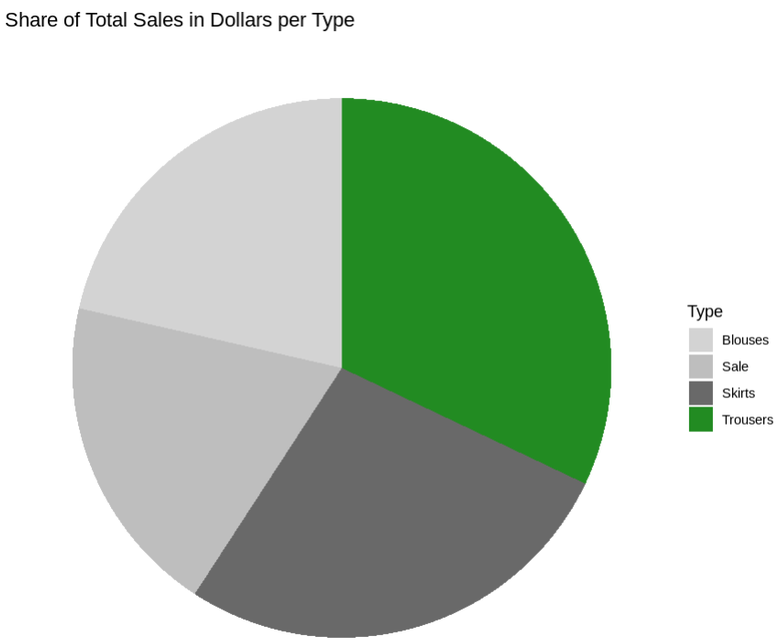
```r
# Load the ggplot2 package
library(ggplot2)

# Assuming you have a data frame named "csdf" with columns "Month" and "Price"

# Create a line plot
line_plot <- ggplot(csdf, aes(x = Month, y = Price, color = Month, group = Month)) +
  geom_line() +
  labs(title = "Sales Trend by Month", x = "Month", y = "Sales (Price)") +
  theme_minimal()

# Display the line plot
print(line_plot)
```



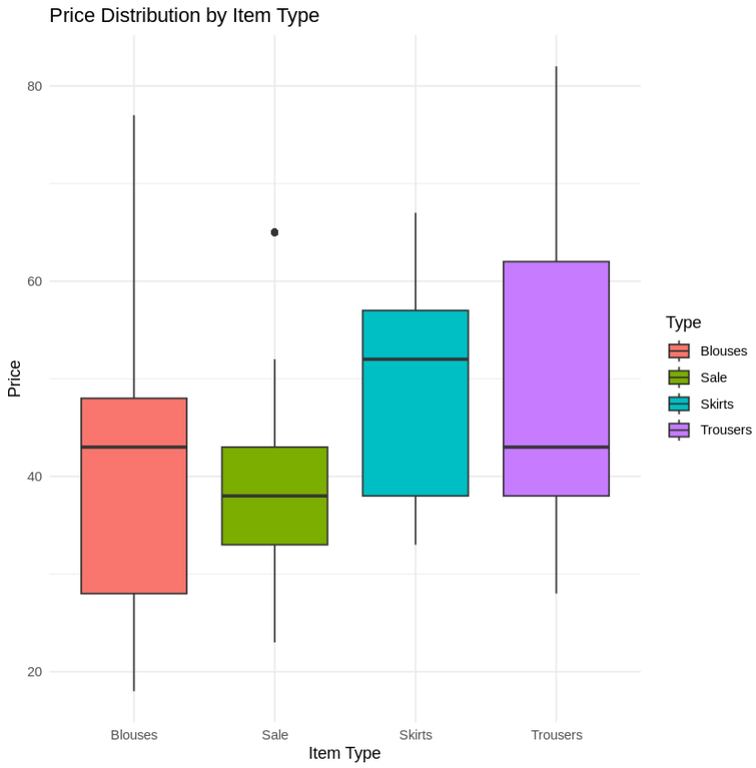
In [67]:

```r
# Load the ggplot2 package
library(ggplot2)

# Assuming you have a data frame named "csdf" with columns "Type" and "Price"

# Aggregate total sales for each clothing type
total_sales <- aggregate(Price ~ Type, data = csdf, FUN = sum)

# Create a pie chart
pie_chart <- ggplot(total_sales, aes(x = "", y = Price, fill = Type)) +
```

```
  geom_bar(stat = "identity", width = 1) +
  coord_polar(theta = "y") +
  labs(title = "Share of Total Sales in Dollars per Type") +
  scale_fill_manual(values = c('lightgray', 'gray', 'dimgray', 'forestgreen')) +
  theme_void()

# Display the pie chart
print(pie_chart)
```



In [73]:
```
# Load the ggplot2 package
library(ggplot2)


# Create a box plot
box_plot <- ggplot(csdf, aes(x = Type, y = Price, fill = Type)) +
  geom_boxplot() +
  labs(title = "Price Distribution by Item Type", x = "Item Type", y = "Price") +
  theme_minimal()

# Display the box plot
print(box_plot)
```



In [80]:
```
# Load the ggplot2 package
library(ggplot2)
```

```r
# Assuming you have a data frame named "csdf" with columns "Month" and "Day"

# Define colors for each month
month_colors <- c("April" = "red", "May" = "blue", "June" = "green", "July" = "purple"

# Create separate histograms for each month
day_histogram <- ggplot(csdf, aes(x = Day, fill = Month)) +
  geom_histogram(binwidth = 1, color = "black") +
  labs(title = "Distribution of Days", x = "Day", y = "Frequency of customers") +
  theme_minimal() +
  scale_fill_manual(values = month_colors) +
  facet_wrap(~Month, nrow = 2)

# Display the histograms
print(day_histogram)
```