Scatter Plot.R

Source on Save | Run | Source

```r
library(ggplot2)

# Create a data frame
age_salary_data <- data.frame(
  Age = c(22, 25, 28, 32, 35, 40, 45),
  Salary = c(28000, 32000, 40000, 50000, 55000, 60000, 65000)
)

# Scatter plot
ggplot(age_salary_data, aes(x = Age, y = Salary)) +
  geom_point(color = "darkorange", size = 3) +
  labs(title = "Age vs. Salary",
       x = "Age (years)",
       y = "Salary ($)") +
  theme_minimal()
```

16:1 (Top Level) R Script

R 4.4.2 · ~/

```
> library(ggplot2)
>
> # Create a data frame
> age_salary_data <- data.frame(
+   Age = c(22, 25, 28, 32, 35, 40, 45),
+   Salary = c(28000, 32000, 40000, 50000, 55000, 60000, 65000)
+ )
>
> # Scatter plot
> ggplot(age_salary_data, aes(x = Age, y = Salary)) +
+   geom_point(color = "darkorange", size = 3) +
+   labs(title = "Age vs. Salary",
+        x = "Age (years)",
+        y = "Salary ($)") +
+   theme_minimal()
>
```

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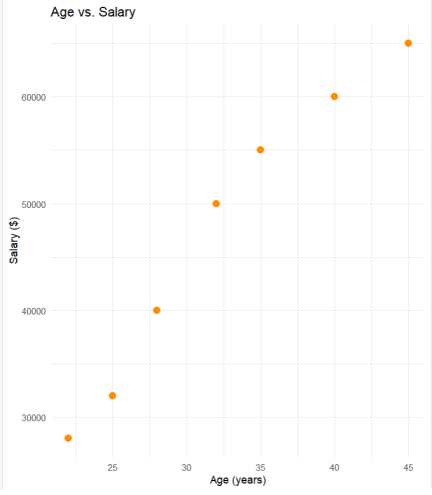

Scatter Plot.R | lineplot.R

Source on Save | Run | Source

```r
year_sales_data <- data.frame(
  Year = 2015:2020,
  Sales = c(120, 150, 180, 210, 240, 300)
)

ggplot(year_sales_data, aes(x = Year, y = Sales)) +
  geom_line(color = "blue", size = 1.2) +
  geom_point(color = "darkred", size = 3) +
  labs(title = "Yearly Sales Growth",
       x = "Year",
       y = "Sales (in thousands)") +
  theme_minimal()
```

13:1 (Top Level) R Script

R 4.4.2 · ~/

```
> year_sales_data <- data.frame(
+   Year = 2015:2020,
+   Sales = c(120, 150, 180, 210, 240, 300)
+ )
>
> ggplot(year_sales_data, aes(x = Year, y = Sales)) +
+   geom_line(color = "blue", size = 1.2) +
+   geom_point(color = "darkred", size = 3) +
+   labs(title = "Yearly Sales Growth",
+        x = "Year",
+        y = "Sales (in thousands)") +
+   theme_minimal()
Warning message:
Using `size` aesthetic for lines was deprecated in ggplot2 3.4.0.
ℹ Please use `linewidth` instead.
This warning is displayed once every 8 hours.
Call `lifecycle::last_lifecycle_warnings()` to see where this warning was generated.
>
```

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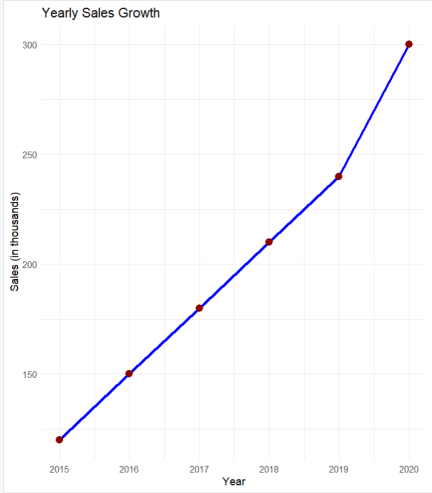

Scatter Plot.R | lineplot.R | Bar Plot.R

Source on Save | Run | Source

```r
department_data <- data.frame(
  Department = c("HR", "Finance", "IT", "Marketing", "Sales"),
  Revenue = c(100, 200, 250, 180, 300)
)

ggplot(department_data, aes(x = Department, y = Revenue, fill = Department)) +
  geom_bar(stat = "identity") +
  labs(title = "Revenue by Department",
       x = "Department",
       y = "Revenue (in $K)") +
  theme_minimal()
```

12:1 (Top Level) R Script

R 4.4.2 · ~/

```
> department_data <- data.frame(
+   Department = c("HR", "Finance", "IT", "Marketing", "Sales"),
+   Revenue = c(100, 200, 250, 180, 300)
+ )
>
> ggplot(department_data, aes(x = Department, y = Revenue, fill = Department)) +
+   geom_bar(stat = "identity") +
+   labs(title = "Revenue by Department",
+        x = "Department",
+        y = "Revenue (in $K)") +
+   theme_minimal()
>
```

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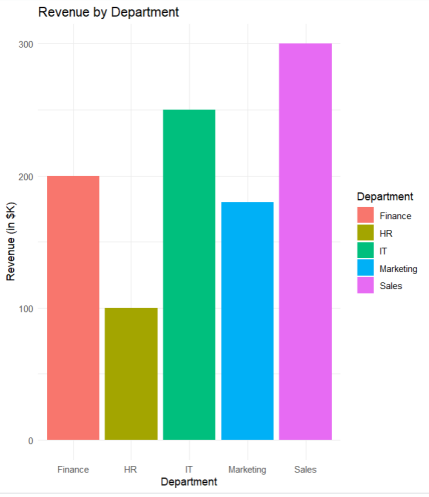

Scatter Plot.R | lineplot.R | Bar Plot.R | Histogram.R

Source on Save | Run | Source

```r
customer_ages <- data.frame(
  Age = c(21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43)
)

ggplot(customer_ages, aes(x = Age)) +
  geom_histogram(binwidth = 4, fill = "darkgreen", color = "black", alpha = 0.6) +
  labs(title = "Customer Age Distribution",
       x = "Age",
       y = "Count") +
  theme_minimal()
```

11:1 (Top Level) R Script

R 4.4.2 · ~/

```
> customer_ages <- data.frame(
+   Age = c(21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43)
+ )
>
> ggplot(customer_ages, aes(x = Age)) +
+   geom_histogram(binwidth = 4, fill = "darkgreen", color = "black", alpha = 0.6) +
+   labs(title = "Customer Age Distribution",
+        x = "Age",
+        y = "Count") +
+   theme_minimal()
>
```

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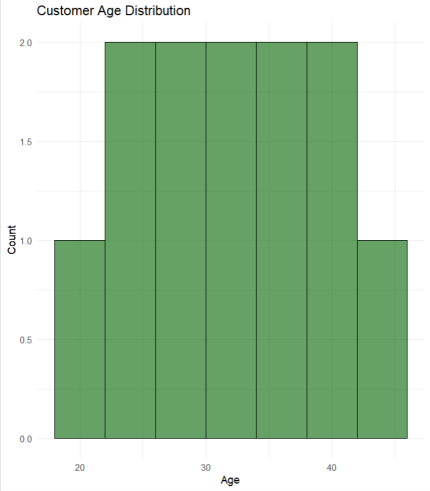

Scatter Plot.R | lineplot.R | Bar Plot.R | Histogram.R | Pie Chart.R

Source on Save | Run | Source

```r
browser_data <- data.frame(
  Browser = c("Chrome", "Firefox", "Edge", "Safari", "Other"),
  Share = c(55, 20, 10, 10, 5)
)

ggplot(browser_data, aes(x = "", y = Share, fill = Browser)) +
  geom_bar(stat = "identity", width = 1) +
  coord_polar("y") +
  labs(title = "Browser Market Share") +
  theme_void() +
  theme(legend.position = "right")

```

12:1 (Top Level) R Script

R 4.4.2 · ~/

```
> browser_data <- data.frame(
+   Browser = c("Chrome", "Firefox", "Edge", "Safari", "Other"),
+   Share = c(55, 20, 10, 10, 5)
+ )
>
> ggplot(browser_data, aes(x = "", y = Share, fill = Browser)) +
+   geom_bar(stat = "identity", width = 1) +
+   coord_polar("y") +
+   labs(title = "Browser Market Share") +
+   theme_void() +
+   theme(legend.position = "right")
>
```

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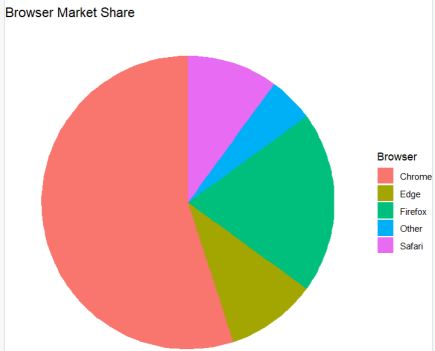

Scatter Plot.R | lineplot.R | Bar Plot.R | Histogram.R | Pie Chart.R | Box Plot.R

Source on Save | Run | Source

```r
scores_section_data <- data.frame(
  Section = c("A", "A", "A", "B", "B", "B", "C", "C", "C"),
  Score = c(75, 80, 85, 70, 72, 78, 88, 85, 90)
)

ggplot(scores_section_data, aes(x = Section, y = Score, fill = Section)) +
  geom_boxplot() +
  labs(title = "Test Scores by Section",
       x = "Section",
       y = "Score") +
  theme_minimal()
```

12:1 (Top Level) R Script

R 4.4.2 · ~/

```
> scores_section_data <- data.frame(
+   Section = c("A", "A", "A", "B", "B", "B", "C", "C", "C"),
+   Score = c(75, 80, 85, 70, 72, 78, 88, 85, 90)
+ )
>
> ggplot(scores_section_data, aes(x = Section, y = Score, fill = Section)) +
+   geom_boxplot() +
+   labs(title = "Test Scores by Section",
+        x = "Section",
+        y = "Score") +
+   theme_minimal()
>
```

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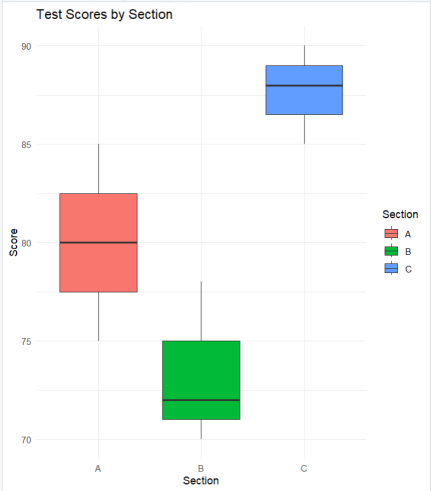

Scatter Plot.R | lineplot.R | Bar Plot.R | Histogram.R | Pie Chart.R | Box Plot.R | Density Plot.R

Source on Save | Run | Source

```
height_data <- data.frame(
  Height = c(150, 155, 160, 162, 165, 168, 170, 175, 178, 180, 182)
)

ggplot(height_data, aes(x = Height)) +
  geom_density(fill = "skyblue", alpha = 0.5) +
  labs(title = "Density Plot of Student Heights",
       x = "Height (cm)",
       y = "Density") +
  theme_minimal()
```

11:1 (Top Level) R Script

R 4.4.2 · ~/

```
> height_data <- data.frame(
+   Height = c(150, 155, 160, 162, 165, 168, 170, 175, 178, 180, 182)
+ )
>
> ggplot(height_data, aes(x = Height)) +
+   geom_density(fill = "skyblue", alpha = 0.5) +
+   labs(title = "Density Plot of Student Heights",
+        x = "Height (cm)",
+        y = "Density") +
+   theme_minimal()
>
```

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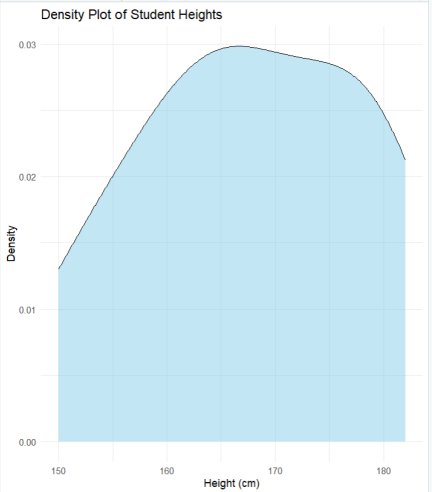
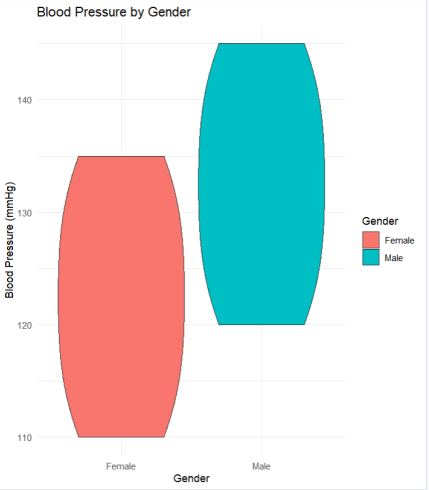


```
bp_data <- data.frame(
  Gender = c(rep("Male", 6), rep("Female", 6)),
  BP = c(120, 125, 130, 135, 140, 145, 110, 115, 120, 125, 130, 135)
)

ggplot(bp_data, aes(x = Gender, y = BP, fill = Gender)) +
  geom_violin() +
  labs(title = "Blood Pressure by Gender",
       x = "Gender",
       y = "Blood Pressure (mmHg)") +
  theme_minimal()
```

```
+   geom_bar(stat = "identity", position = "dodge") +
+   facet_wrap(~ Branch) +
+   labs(title = "Monthly Profit by Branch",
+        x = "Month",
+        y = "Profit ($K)") +
+   theme_minimal()
> bp_data <- data.frame(
+   Gender = c(rep("Male", 6), rep("Female", 6)),
+   BP = c(120, 125, 130, 135, 140, 145, 110, 115, 120, 125, 130, 135)
+ )
>
> ggplot(bp_data, aes(x = Gender, y = BP, fill = Gender)) +
+   geom_violin() +
+   labs(title = "Blood Pressure by Gender",
+        x = "Gender",
+        y = "Blood Pressure (mmHg)") +
+   theme_minimal()
>
```



lot.R | lineplot.R | Bar Plot.R | Histogram.R | Pie Chart.R | Box Plot.R | Density Plot.R | violin Plot.R | Heatmap.R

Source on Save | Run | Source

```r
library(reshape2)

scores_matrix <- data.frame(
  Semester = c("Sem1", "Sem2", "Sem3", "Sem4"),
  Math = c(75, 80, 78, 85),
  Science = c(70, 72, 74, 76),
  English = c(65, 68, 70, 73)
)

melted_scores <- melt(scores_matrix, id.vars = "Semester")

ggplot(melted_scores, aes(x = Semester, y = variable, fill = value)) +
  geom_tile() +
  scale_fill_gradient(low = "lightyellow", high = "darkred") +
  labs(title = "Average Scores by Subject and Semester",
       x = "Semester",
       y = "Subject") +
  theme_minimal()

```

20:1 (Top Level) R Script

R 4.4.2 · ~/

```
> scores_matrix <- data.frame(
+   Semester = c("Sem1", "Sem2", "Sem3", "Sem4"),
+   Math = c(75, 80, 78, 85),
+   Science = c(70, 72, 74, 76),
+   English = c(65, 68, 70, 73)
+ )
>
> melted_scores <- melt(scores_matrix, id.vars = "Semester")
>
> ggplot(melted_scores, aes(x = Semester, y = variable, fill = value)) +
+   geom_tile() +
+   scale_fill_gradient(low = "lightyellow", high = "darkred") +
+   labs(title = "Average Scores by Subject and Semester",
+        x = "Semester",
+        y = "Subject") +
+   theme_minimal()
>
```

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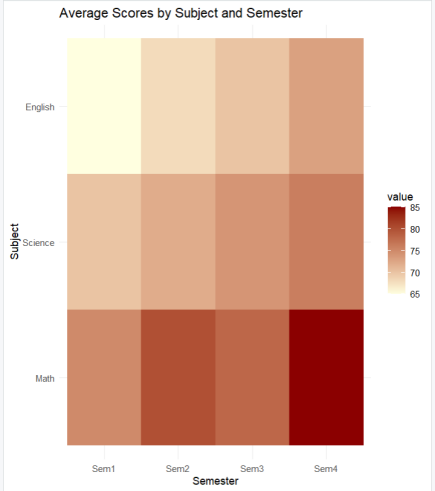

```
branch_profit <- data.frame(
  Month = c("Jan", "Jan", "Feb", "Feb", "Mar", "Mar", "Apr", "Apr"),
  Branch = c("North", "South", "North", "South", "North", "South", "North", "South"),
  Profit = c(100, 80, 120, 90, 130, 100, 150, 110)
)

ggplot(branch_profit, aes(x = Month, y = Profit, fill = Branch)) +
  geom_bar(stat = "identity", position = "dodge") +
  facet_wrap(~ Branch) +
  labs(title = "Monthly Profit by Branch",
       x = "Month",
       y = "Profit ($K)") +
  theme_minimal()
```

```
+   labs(title = "Average Scores by Subject and Semester",
+        x = "Semester",
+        y = "Subject") +
+   theme_minimal()
> branch_profit <- data.frame(
+   Month = c("Jan", "Jan", "Feb", "Feb", "Mar", "Mar", "Apr", "Apr"),
+   Branch = c("North", "South", "North", "South", "North", "South", "North", "South"),
+   Profit = c(100, 80, 120, 90, 130, 100, 150, 110)
+ )
>
> ggplot(branch_profit, aes(x = Month, y = Profit, fill = Branch)) +
+   geom_bar(stat = "identity", position = "dodge") +
+   facet_wrap(~ Branch) +
+   labs(title = "Monthly Profit by Branch",
+        x = "Month",
+        y = "Profit ($K)") +
+   theme_minimal()
>
```