630_Week_1_2_Matthew_Latondresse_R

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```r
knitr::opts_chunk$set(echo = TRUE)

# Install and load necessary packages
if (!requireNamespace("ggplot2", quietly = TRUE)) {
  install.packages("ggplot2")
}
library(ggplot2)
```
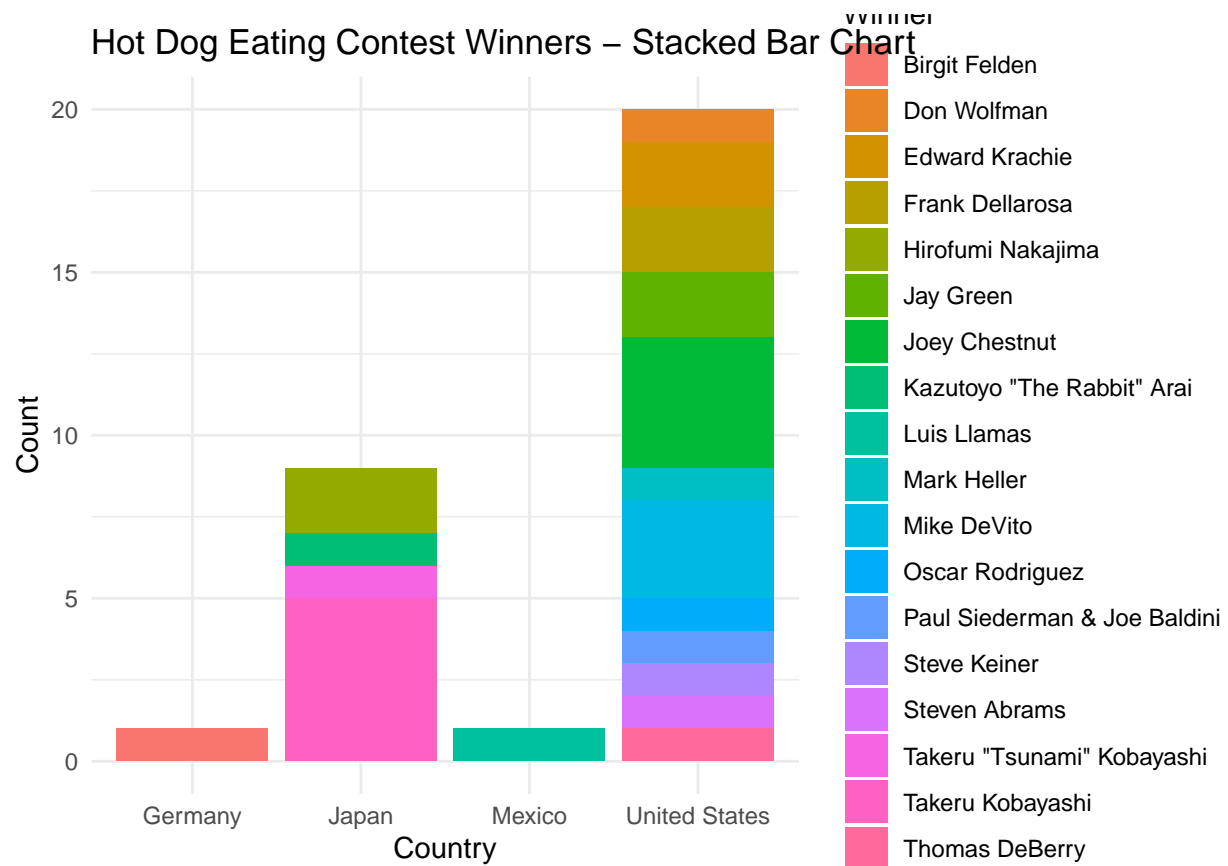
```
## Warning: package 'ggplot2' was built under R version 4.3.2
```

```r
# Load the dataset
df <- read.csv("C:/Users/mattl/OneDrive/Documents/GitHub/DSC 640/ex1-2/hotdog-contest-winners.csv")

# Create a bar graph
bar_graph <- ggplot(df, aes(x = Country)) +
  geom_bar(stat = "count", fill = "skyblue") +
  labs(title = "Count of Contestants by Country", x = "Country", y = "Count") +
  theme_minimal()

print(bar_graph)
```

Count of Contestants by Country
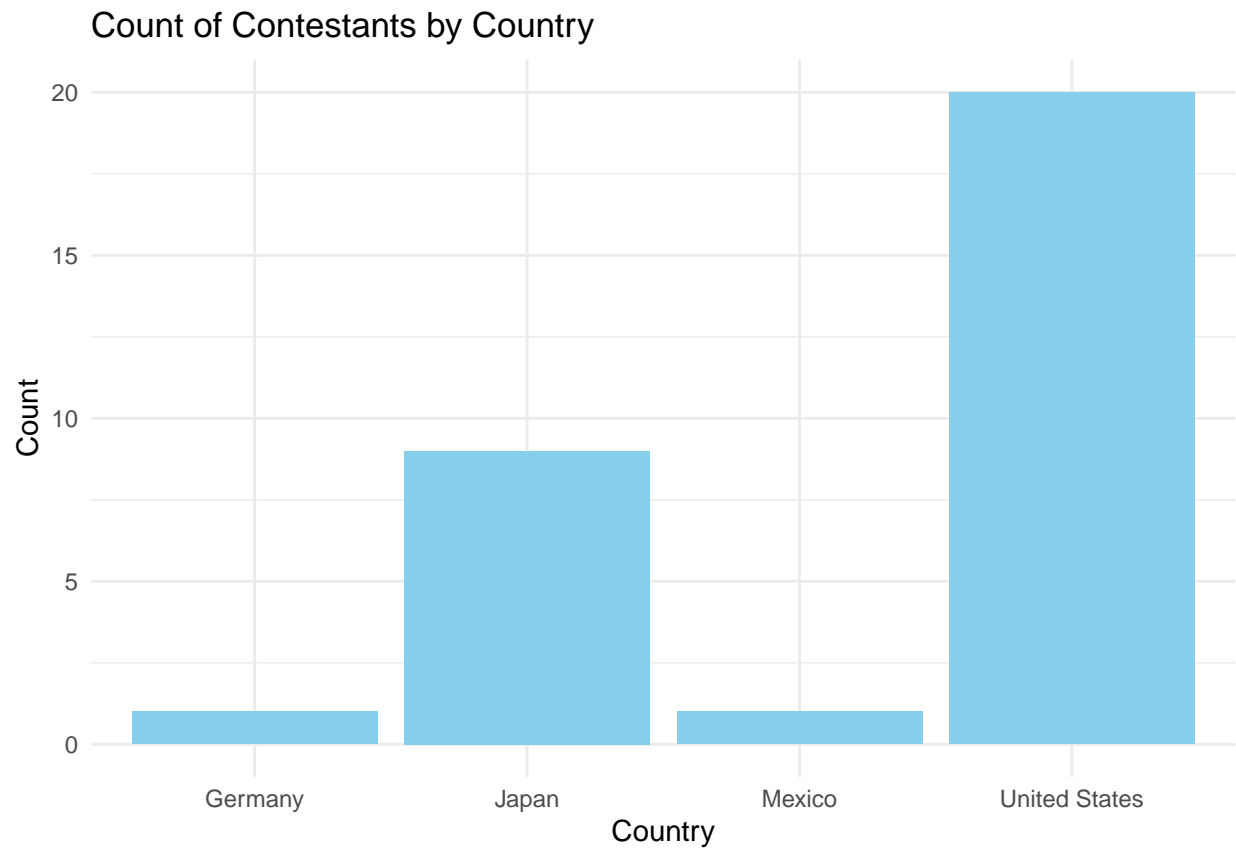

```r
# Different Stacked Bar Chart
stacked_bar_chart_different <- ggplot(df, aes(x = Country, fill = Winner)) +
  geom_bar(position = "stack", stat = "count") +
  labs(title = "Hot Dog Eating Contest Winners - Stacked Bar Chart", x = "Country", y = "Count", fill =
  theme_minimal()

print(stacked_bar_chart_different)
```
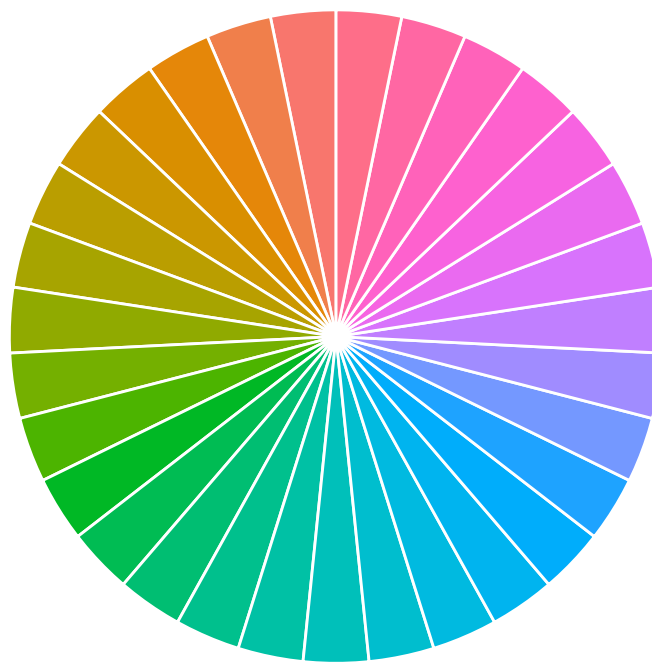
Hot Dog Eating Contest Winners – Stacked Bar Chart

Winner
- Birgit Felden
- Don Wolfman
- Edward Krachie
- Frank Dellarosa
- Hirofumi Nakajima
- Jay Green
- Joey Chestnut
- Kazutoyo "The Rabbit" Arai
- Luis Llamas
- Mark Heller
- Mike DeVito
- Oscar Rodriguez
- Paul Siederman & Joe Baldini
- Steve Keiner
- Steven Abrams
- Takeru "Tsunami" Kobayashi
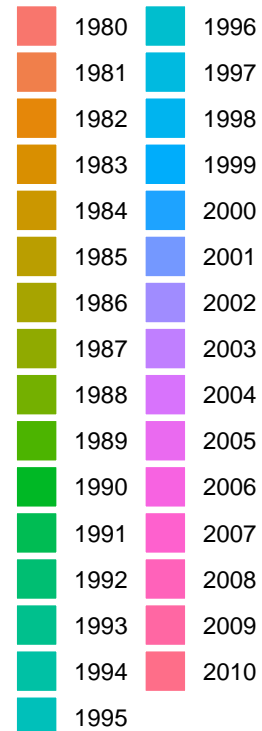- Takeru Kobayashi
- Thomas DeBerry

```
# Pie Chart
pie_chart <- ggplot(df, aes(x = "", y = "Dogs eaten", fill = factor(Year))) +
  geom_bar(stat = "identity", width = 1, color = "white") +
  coord_polar(theta = "y") +
  labs(title = "Hot Dog Eaten Per Year - Pie Chart", fill = "Year") +
  theme_void()

print(pie_chart)
```

Hot Dog Eaten Per Year – Pie Chart

Year

1980		1996	
1981		1997	
1982		1998	
1983		1999	
1984		2000	
1985		2001	
1986		2002	
1987		2003	
1988		2004	
1989		2005	
1990		2006	
1991		2007	
1992		2008	
1993		2009	
1994		2010	
1995			

```r
# Donut Chart
donut_chart <- ggplot(df, aes(x = "", y = 'Dogs eaten', fill = factor(Year))) +
  geom_bar(stat = "identity", width = 1, color = "white") +
  geom_bar(stat = "identity", width = 0.7, fill = "white") +
  coord_polar(theta = "y") +
  labs(title = "Hot Dog Eaten Per Year - Donut Chart", fill = "Year") +
  theme_void() +
  theme(legend.position = "right")  # Optional: move legend to the right

print(donut_chart)
```

Hot Dog Eaten Per Year – Donut Chart

Year

■ 1980		■ 1996	
■ 1981		■ 1997	
■ 1982		■ 1998	
■ 1983		■ 1999	
■ 1984		■ 2000	
■ 1985		■ 2001	
■ 1986		■ 2002	
■ 1987		■ 2003	
■ 1988		■ 2004	
■ 1989		■ 2005	
■ 1990		■ 2006	
■ 1991		■ 2007	
■ 1992		■ 2008	
■ 1993		■ 2009	
■ 1994		■ 2010	
■ 1995			