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Method: R

Assignment 1.2 - Charts DSC-640 Week 1-2

### In [1]:

```
# import libraries and data
library(ggplot2)
library(readx1)
```

#### Warning message:

"package 'ggplot2' was built under R version 3.6.3"Warning message:

#### In [2]:

```
hotdog_data <- read_excel("hotdog-contest-winners.xlsm")
head(hotdog_data)</pre>
```

#### A tibble: 6 × 5

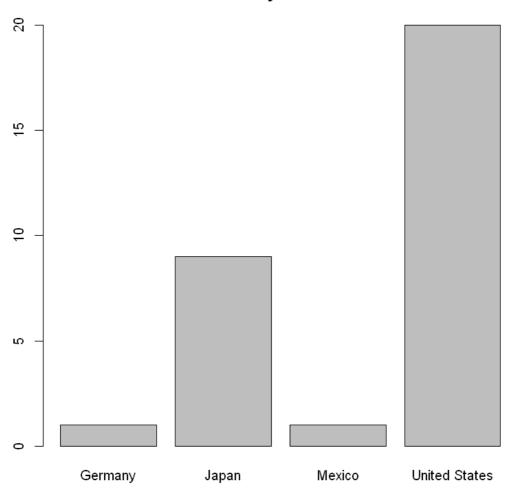
Winner	Dogs eaten	Country	New record
<chr></chr>	<dbl></dbl>	<chr></chr>	<dbl></dbl>
Paul Siederman & Joe Baldini	9.10	United States	0
Thomas DeBerry	11.00	United States	0
Steven Abrams	11.00	United States	0
Luis Llamas	19.50	Mexico	0
Birgit Felden	9.50	Germany	0
Oscar Rodriguez	11.75	United States	0

<sup>&</sup>quot;package 'readxl' was built under R version 3.6.3"

# In [3]:

```
# Bar Chart
counts <- table(hotdog_data$Country)
barplot(counts, main='Country Winners')</pre>
```

# **Country Winners**



#### In [4]:

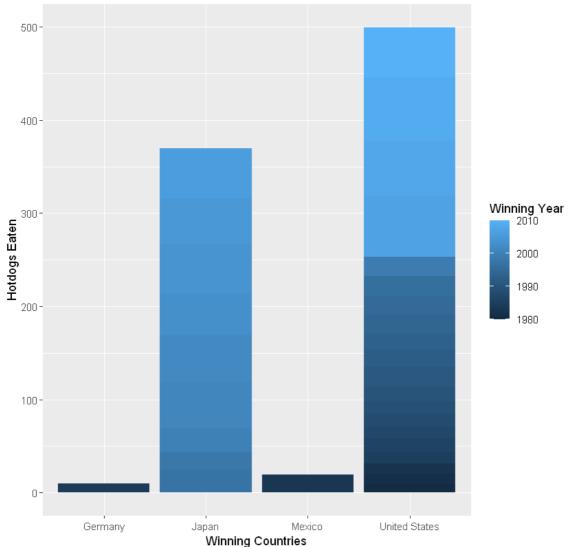
### Warning message:

"Use of `hotdog\_data\$Country` is discouraged. Use `Country` instead."Warning message:

"Use of `hotdog\_data\$`Dogs eaten`` is discouraged. Use `Dogs eaten` instea d."Warning message:

"Use of `hotdog\_data\$Year` is discouraged. Use `Year` instead."

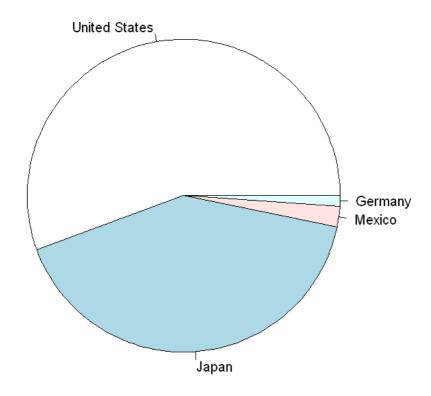
## Total Hotdogs Eaten by Country



### In [5]:

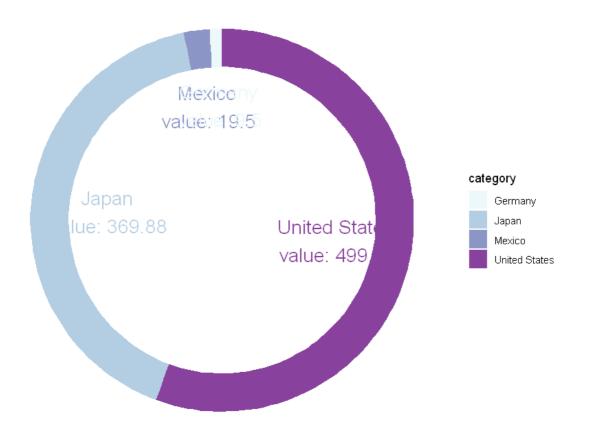
```
# Pie Chart
slices <- c(499.85, 369.88, 19.50, 9.50)
lbls <- c('United States', 'Japan', 'Mexico', 'Germany')
pie(slices, labels = lbls, main='Total hotdogs eaten by winning countries')</pre>
```

# Total hotdogs eaten by winning countries



#### In [6]:

```
# Donut Pie Chart
data <- data.frame(category=c('United States', 'Japan', 'Mexico', 'Germany'), count=c(4</pre>
99.85, 369.88, 19.50, 9.50))
data$fraction <- data$count / sum(data$count)</pre>
data$ymax <- cumsum(data$fraction)</pre>
data$ymin <- c(0, head(data$ymax, n=-1))</pre>
data$labelPosition <- (data$ymax + data$ymin) / 2</pre>
data$label <- paste0(data$category, "\n value: ", data$count)</pre>
ggplot2::ggplot(data, ggplot2::aes(ymax=ymax, ymin=ymin, xmax=4, xmin=3, fill=category
)) +
ggplot2::geom_rect() +
ggplot2::geom_text(x=2, ggplot2::aes(y=labelPosition, label=label, color=category), siz
e=6) +
ggplot2::scale_fill_brewer(palette=3) + ggplot2::scale_color_brewer(palette = 3) +
ggplot2::coord_polar(theta = "y") +
ggplot2::xlim(c(-1,4)) +
ggplot2::theme_void()
```



### In [ ]: