R Charts

Datasets

Hotdog Contest Winners

#	A tibble: 6 x 5				
	Year	Winner	Dogs_eaten	Country	New_record
	<dbl></dbl>	<chr></chr>	<dbl></dbl>	<chr></chr>	<dbl></dbl>
1	1980	Paul Siederman & Joe Baldini	9.1	United States	0
2	1981	Thomas DeBerry	11	United States	0
3	1982	Steven Abrams	11	United States	0
4	1983	Luis Llamas	19.5	Mexico	0
5	1984	Birgit Felden	9.5	Germany	0
6	1985	Oscar Rodriguez	11.8	United States	0

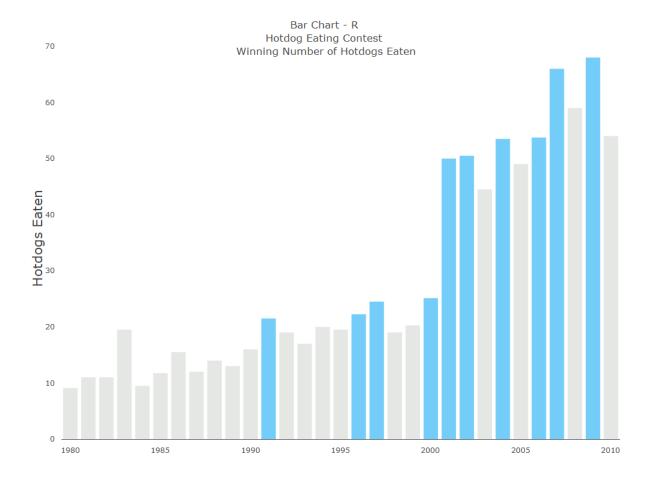
Obama Approval Ratings

A tibble: 6 x 4 Issue Approve Disapprove None <chr> <dbl> <dbl> <dbl> 52 38 1 Race Relations 10 2 Education 49 40 11 45 3 Terrorism 48 7 4 Energy Policy 47 42 11 5 Foreign Affairs 44 48 8 6 Environment 43 51 6

Charts

1. Bar Chart

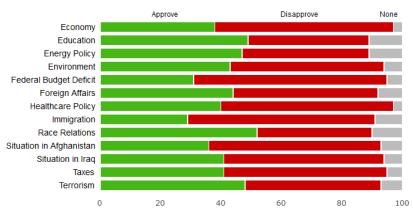
```
# Highlight record years with color
fill_colors <- c()
for ( i in 1:length(hotdog_winners_df$New_record) ) {
    if (hotdog_winners_df$New_record[i] == 1) {
        fill_colors <- c(fill_colors, "#74cdf9")</pre>
    } else {
        fill_colors <- c(fill_colors, "#e5e7e4")</pre>
    }
}
fig <- plot_ly(hotdog_winners_df, x = ~Year, y = ~Dogs_eaten, type = 'bar',</pre>
        marker = list(color = fill_colors, hoverinfo = 'none'))
fig <- fig %>%
    layout(
        title = "Bar Chart - R \nHotdog Eating Contest \nWinning Number of Hotdogs Eaten",
        xaxis = list(showgrid = FALSE,
                     title = ""),
        yaxis = list(showgrid = FALSE,
                     title = "Hotdogs Eaten",
                     titlefont = list(size = 22)),
        margin = list(1 = 5, r = 5, b = 10, t = 30, pad = 10)
    )
export(fig, file = "images/barchart-r.png")
```



2. Stacked Bar Chart

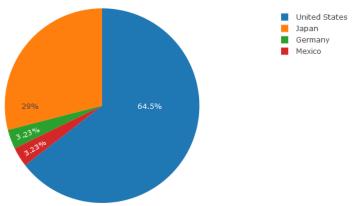
```
showgrid = FALSE,
                showline = FALSE,
                showticklabels = TRUE,
                zeroline = FALSE,
                domain = c(0.15, 1),
    yaxis = list(title = "",
                showgrid = FALSE,
                showline = FALSE,
                showticklabels = FALSE,
                zeroline = FALSE,
                categoryorder = 'category descending'),
    barmode = 'stack',
    showlegend = FALSE,
    title = "Stacked Bar Chart - R \nObama Approval Percentages per Issue",
    autosize = F,
    margin = list(1 = 70, r = 5, b = 5, t = 120, pad = 10)
# labeling the y-axis
fig <- fig %>%
    add_annotations(xref = 'paper',
                  yref = names, x = 0.14,
                  y = names,
                  xanchor = 'right',
                  text = names,
                  font = list(family = 'Arial', size = 14,
                            color = '#000000'),
                  showarrow = FALSE, align = 'right')
# label top titles
fig <- fig %>%
    add_annotations(xref = 'x', yref = 'paper',
                  x = c(43 / 2, 45 + 42 / 2, 43 + 42 + 21 / 2),
                  y = 1.07,
                  text = top_labels,
                  font = list(family = 'Arial', size = 12,
                              color = '#000000'),
                  showarrow = FALSE)
export(fig, file = "images/stackedbarchart-r.png")
```

Stacked Bar Chart - R Obama Approval Percentages per Issue



2. Pie Chart





4. Donut Chart

```
# Get the counts for each country
countries = dplyr::count(hotdog_winners_df, Country, sort = FALSE)
# plot pie chart
```

Donut Chart - R Percentage of Wins per Country 1980 - 2010

