

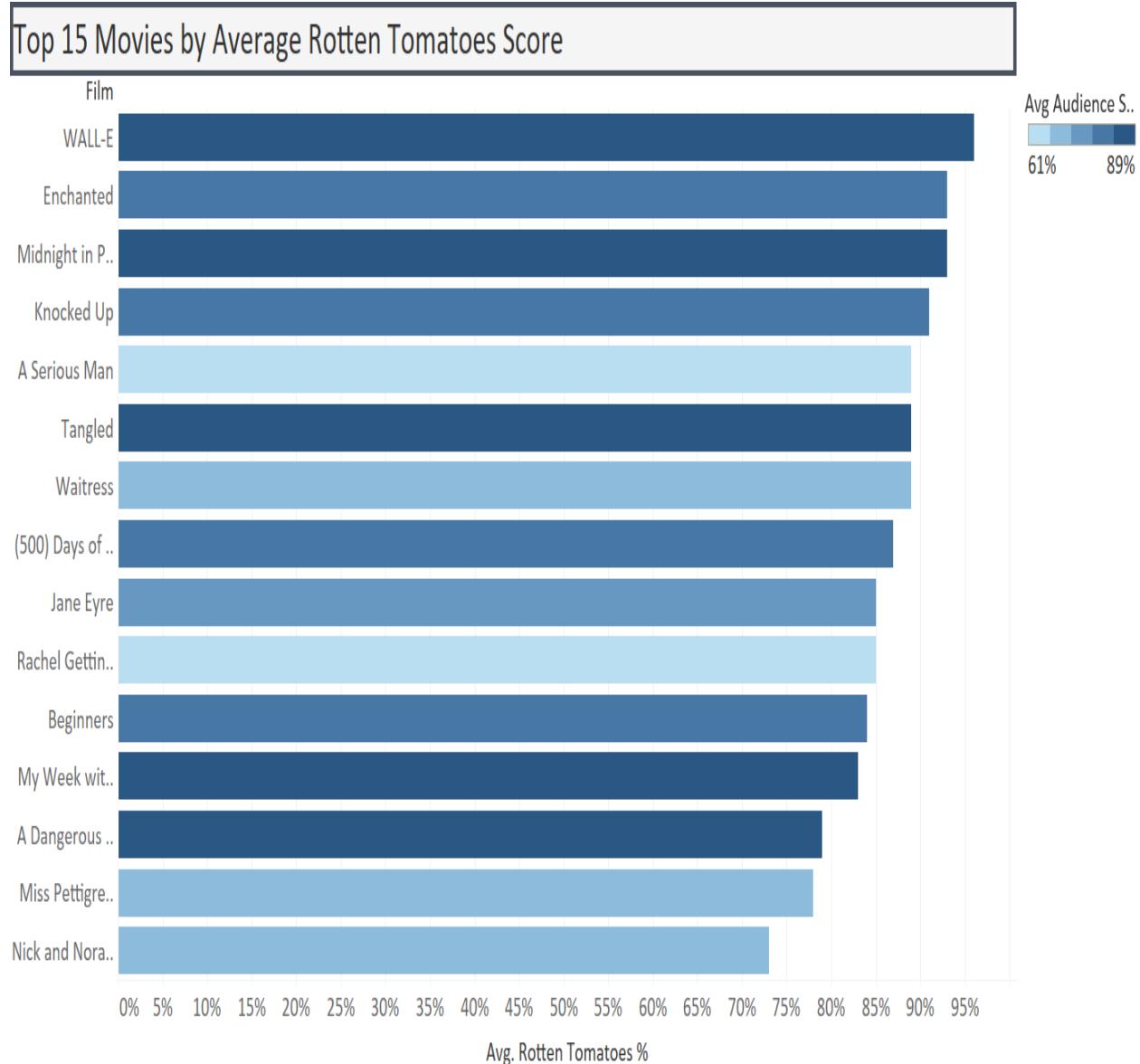
Thakur, Aditya

ACCT/ MIS-6309-Business-Data-Warehousing

Lab #1

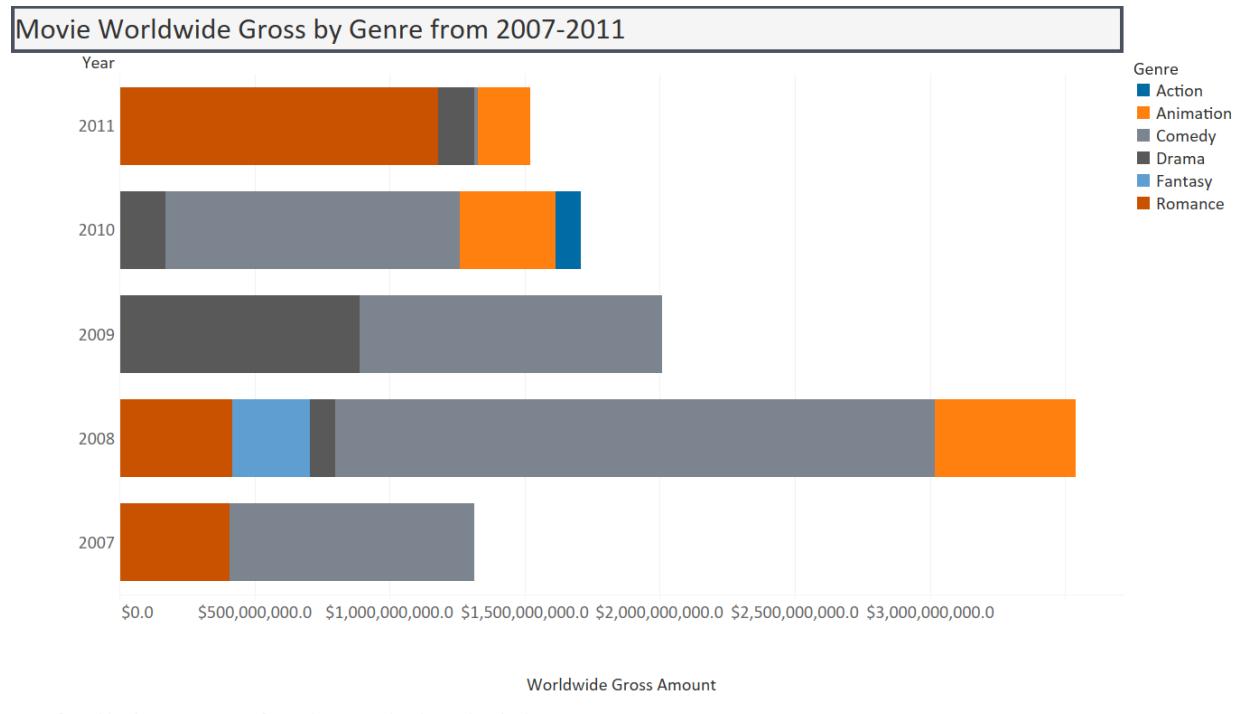
Chapter-1---Basic-Charts

Creating a Bar Chart



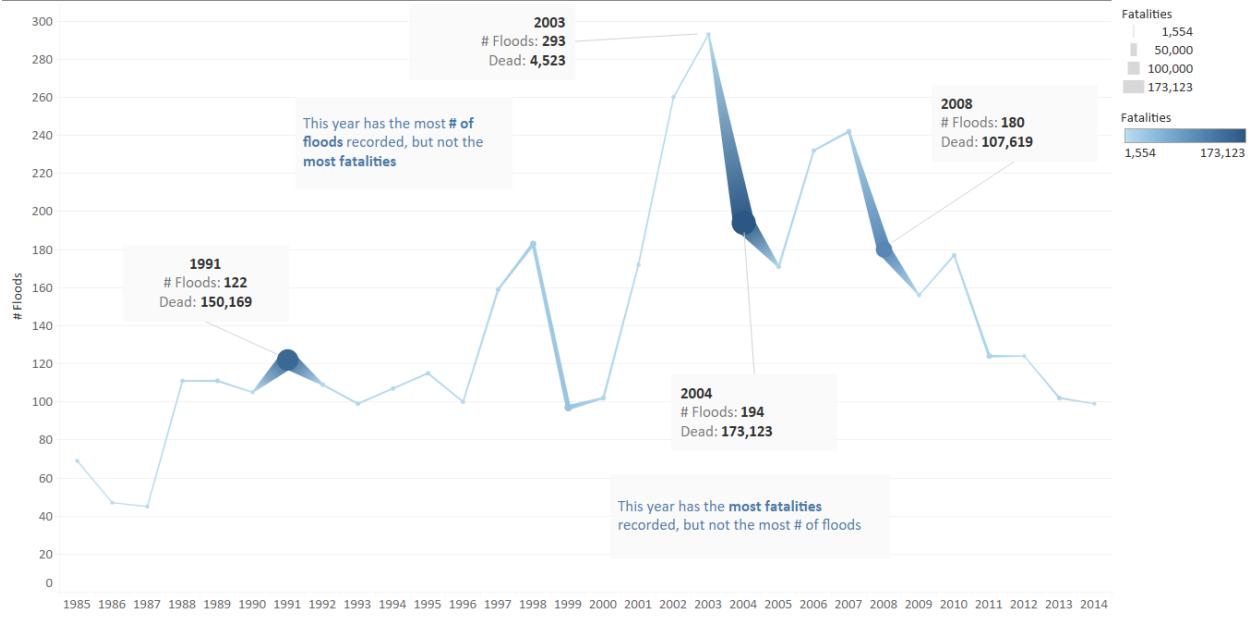
Average of Rotten Tomatoes % for each Film. Color shows average of Audience score %. The view is filtered on Film, which has multiple members selected.

Creating a Stacked Bar Chart



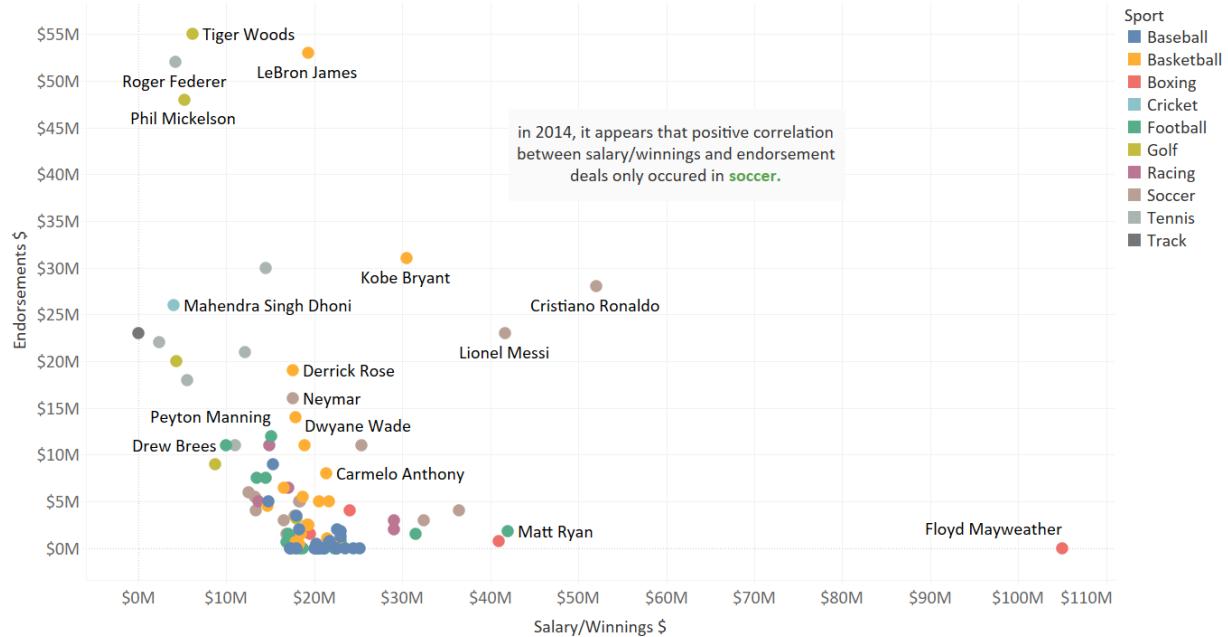
Creating a Line Chart

Do more floods mean more fatalities?



Creating a Scatter Plot

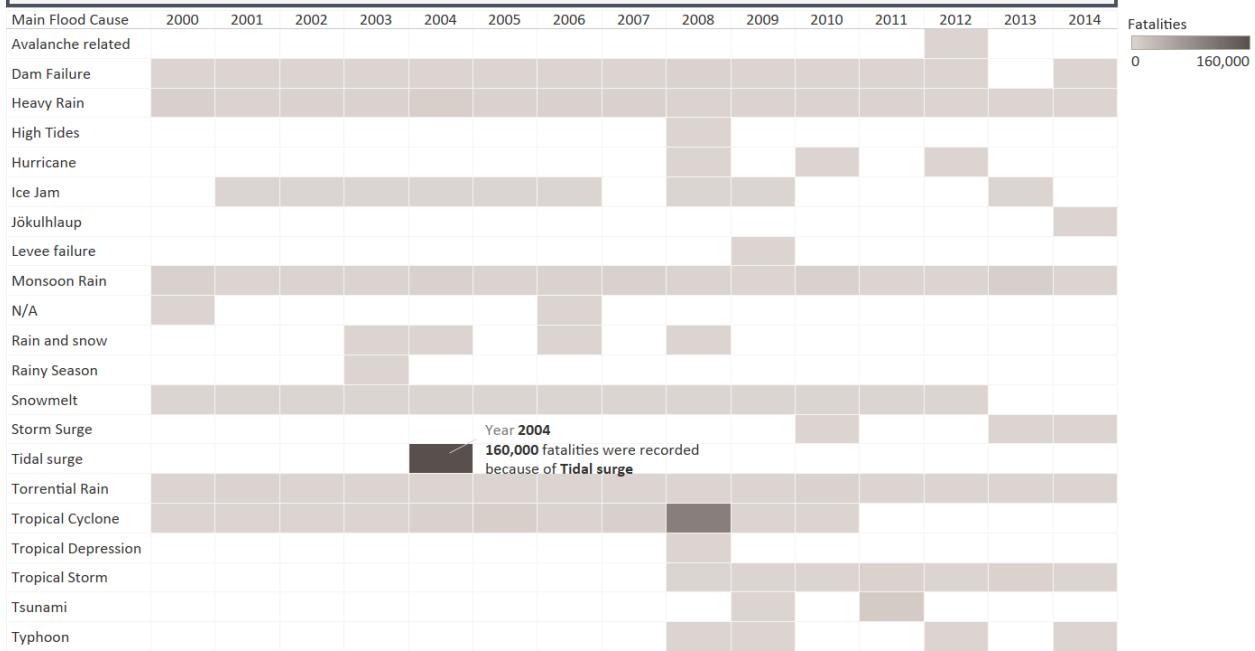
Did 2014 top paid athletes get more endorsement deals?



Sum of Salary/Winnings \$ vs. sum of Endorsements \$. Color shows details about Sport. The marks are labeled by Athlete.

Creating a Heat Map

When did the most flood fatalities occur between 2000 - 2014?



Sum of Dead (color) broken down by Began Year vs. Main Flood Cause. The view is filtered on Began Year, which keeps 15 of 31 members.

Creating a Text Table (crosstab)

Top 20 Movies from 2007-2011 based on Worldwide Gross

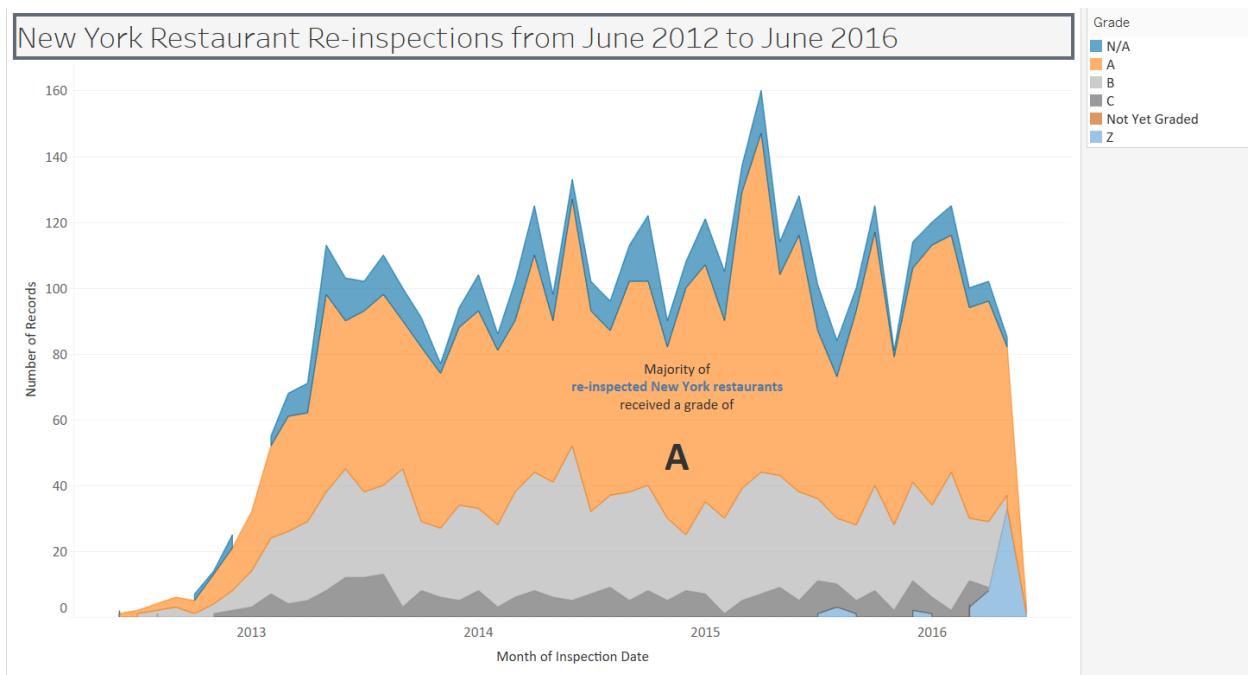
Film	Year	Worldwide Gross Amount	Avg. Audience score %	Avg. Rotten Tomatoes %	Avg. Profitability
The Twilight Saga..	2009	\$709,820,000	78%	27%	14
Twilight: Breakin..	2011	\$702,170,000	68%	26%	6
Mamma Mia!	2008	\$609,473,955	76%	53%	9
WALL-E	2008	\$521,283,432	89%	96%	3
Sex and the City	2008	\$415,253,258	81%	49%	7
Twilight	2008	\$376,661,000	82%	49%	10
Tangled	2010	\$355,080,000	88%	89%	1
Enchanted	2007	\$340,487,652	80%	93%	4
The Proposal	2009	\$314,700,000	74%	43%	8
Sex and the City 2	2010	\$288,350,000	49%	15%	3
The Curious Case ..	2008	\$285,431,000	81%	73%	2
High School Musi..	2008	\$252,044,501	76%	65%	23
It's Complicated	2009	\$224,600,000	63%	56%	3
What Happens in ..	2008	\$219,367,646	72%	28%	6
Knocked Up	2007	\$219,001,261	83%	91%	7
Valentine's Day	2010	\$217,570,000	54%	17%	4
Marley and Me	2008	\$206,073,000	77%	63%	4
The Ugly Truth	2009	\$205,300,000	68%	14%	5
Gnomeo and Juliet	2011	\$193,967,000	52%	56%	5
He's Just Not Tha..	2009	\$178,840,000	60%	42%	7
Grand Total		\$6,835,473,705	73%	52%	7

Creating a Highlight Table

Top 20 Movies from 2007-2011 based on Worldwide Gross					
Film	Year	Worldwide Gross Amount	Avg. Audience score %	Avg. Rotten Tomatoes %	Avg. Profitability
Enchanted	2007	\$340,487,652	80%	93%	4
Gnomeo and Juliet	2011	\$193,967,000	52%	56%	5
He's Just Not Tha..	2009	\$178,840,000	60%	42%	7
High School Musi..	2008	\$252,044,501	76%	65%	23
It's Complicated	2009	\$224,600,000	63%	56%	3
Knocked Up	2007	\$219,001,261	83%	91%	7
Mamma Mia!	2008	\$609,473,955	76%	53%	9
Marley and Me	2008	\$206,073,000	77%	63%	4
Sex and the City	2008	\$415,253,258	81%	49%	7
Sex and the City 2	2010	\$288,350,000	49%	15%	3
Tangled	2010	\$355,080,000	88%	89%	1
The Curious Case ..	2008	\$285,431,000	81%	73%	2
The Proposal	2009	\$314,700,000	74%	43%	8
The Twilight Saga..	2009	\$709,820,000	78%	27%	14
The Ugly Truth	2009	\$205,300,000	68%	14%	5
Twilight	2008	\$376,661,000	82%	49%	10
Twilight: Breakin..	2011	\$702,170,000	68%	26%	6
Valentine's Day	2010	\$217,570,000	54%	17%	4
WALL-E	2008	\$521,283,432	89%	96%	3
What Happens in ..	2008	\$219,367,646	72%	28%	6
Grand Total		\$6,835,473,705	73%	52%	7

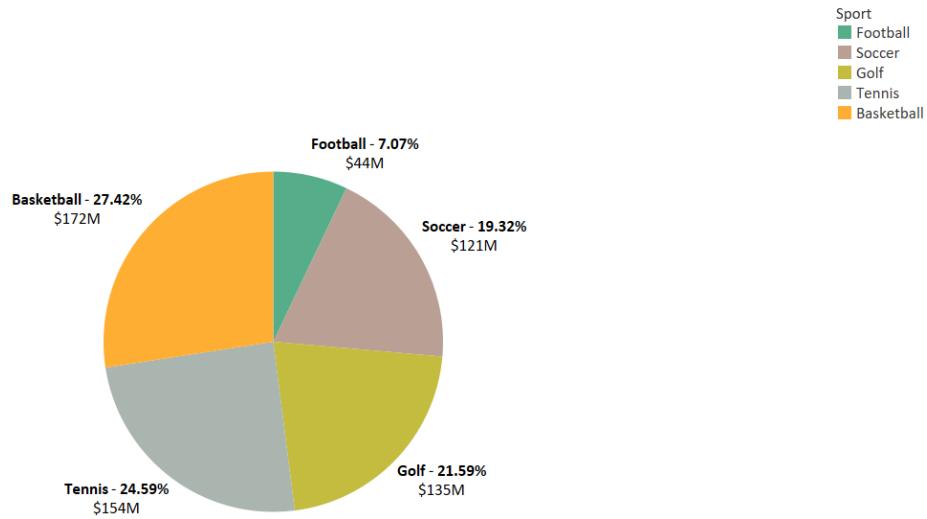
Worldwide gross
179M 710M

Creating a Area Chart



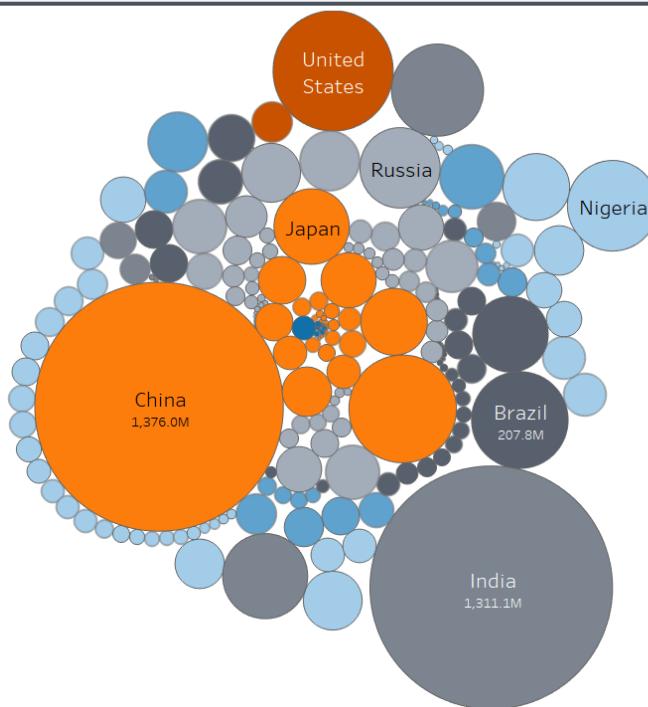
Creating a Pie Chart

Top 5 Endorsements by Sports in 2014



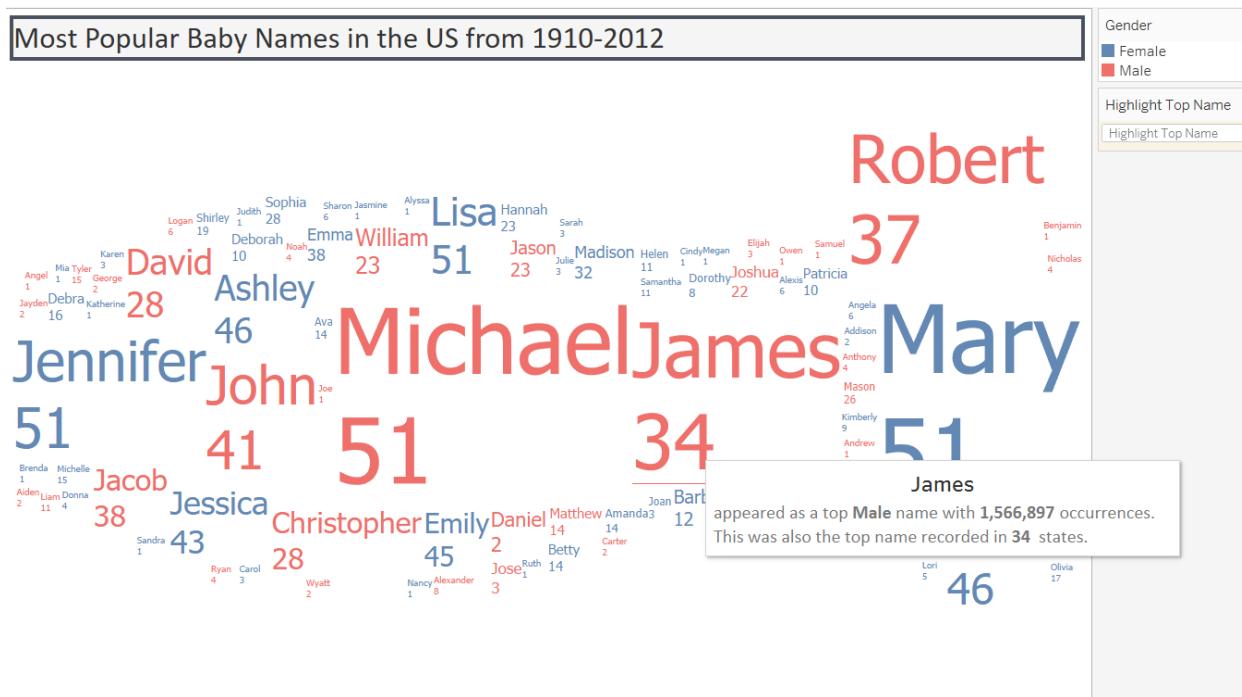
Creating a Bubble Chart

World Population in 2015

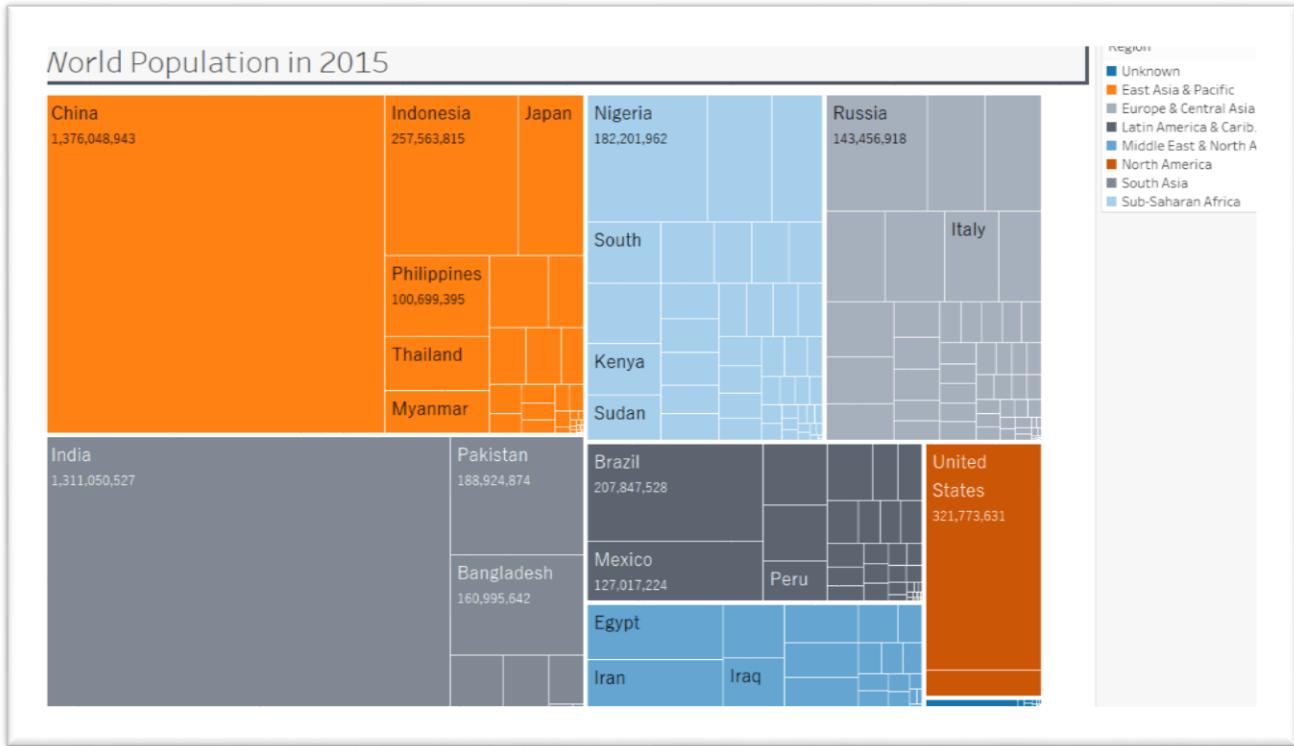


Region
Unknown
East Asia & Pacific
Europe & Central Asia
Latin America & Carib..
Middle East & North A..
North America
South Asia
Sub-Saharan Africa

Creating a Word Cloud



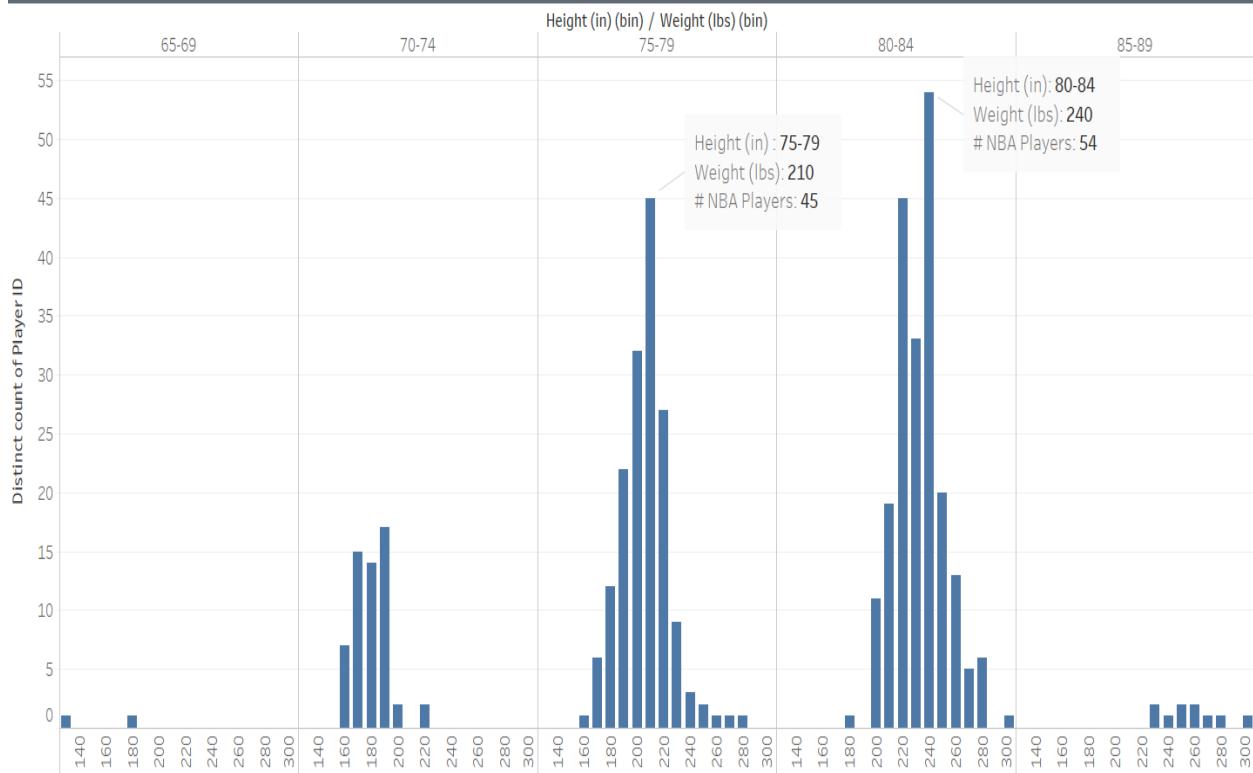
Creating a Tree Map



Chapter 2 – Advanced Charts

Creating a Histogram

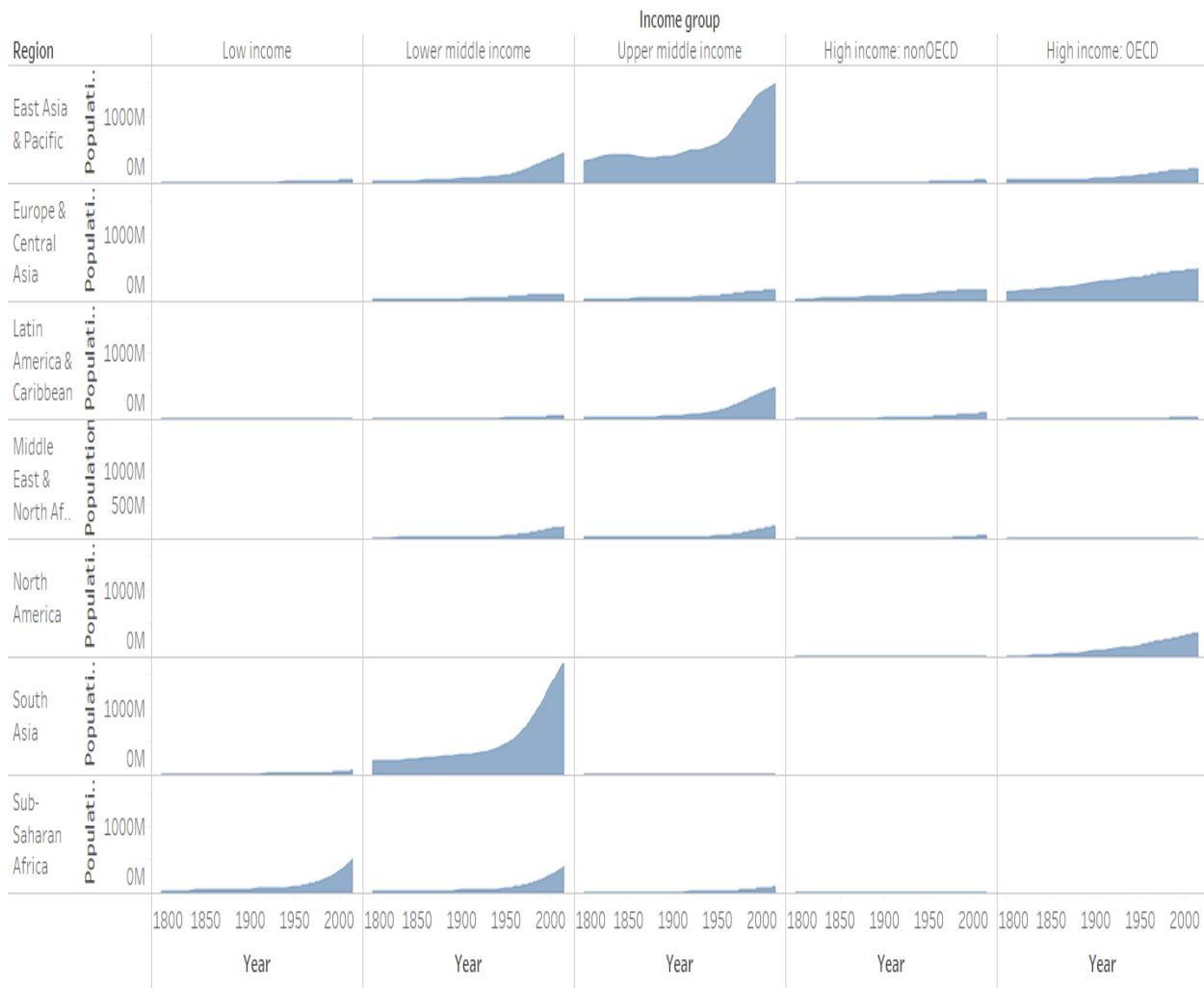
What are the height and weight distributions of NBA players in 2009?



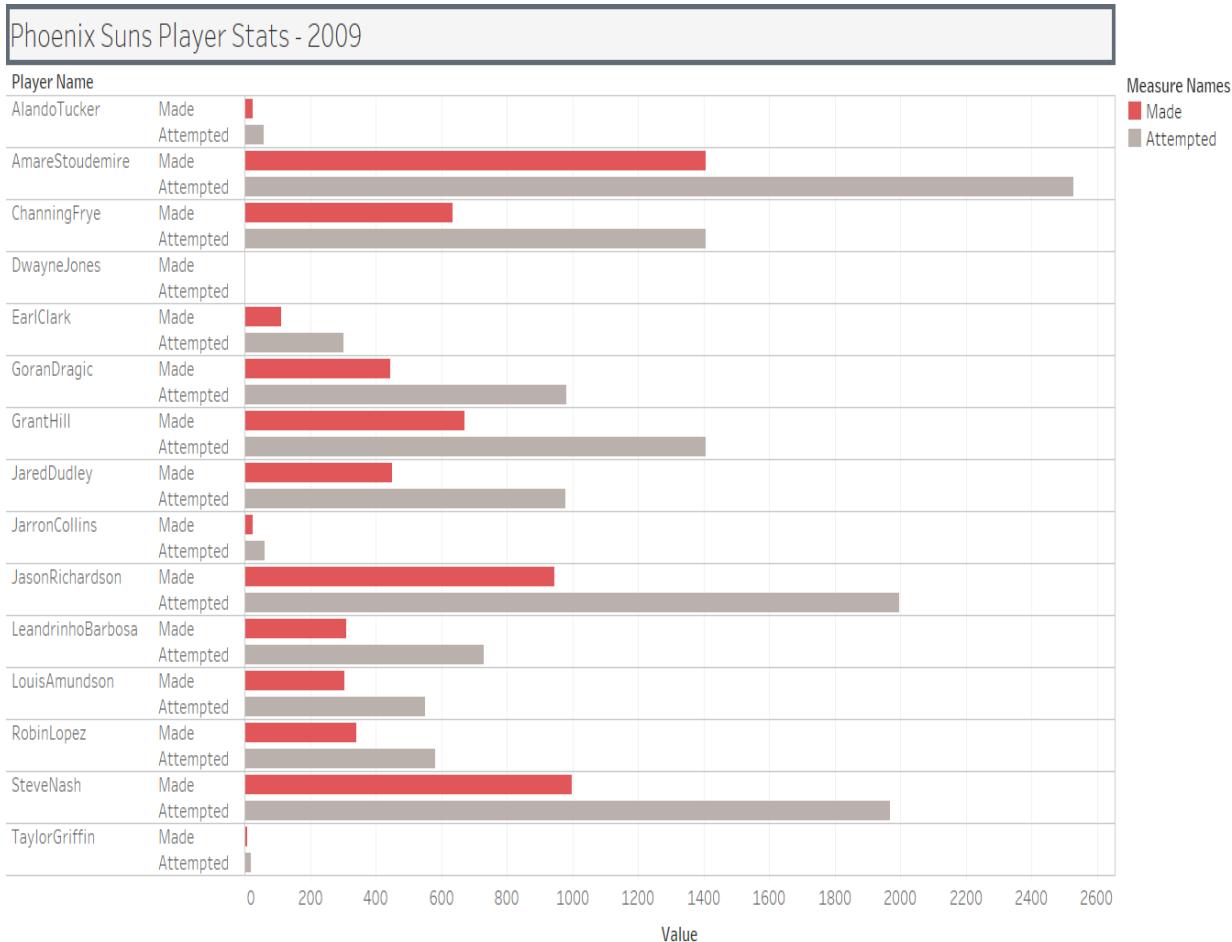
Distinct count of Player ID for each Weight (lbs) (bin) broken down by Height (in) (bin). The data is filtered on Year and League. The Year filter keeps 2009. The League filter keeps N.

Creating a Small Multiple Chart

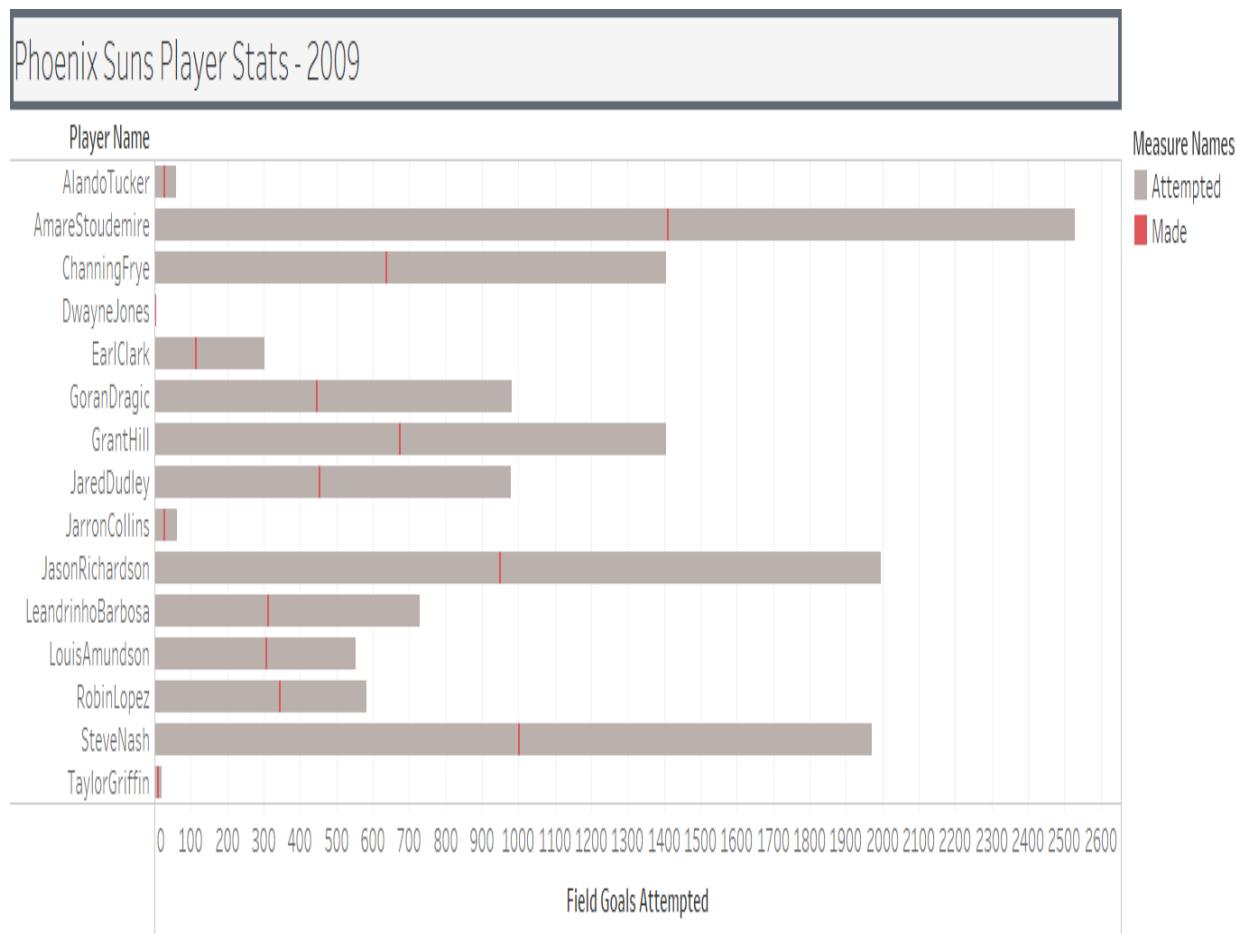
World Population by Region and Income Group



Creating a Shared Axis Chart



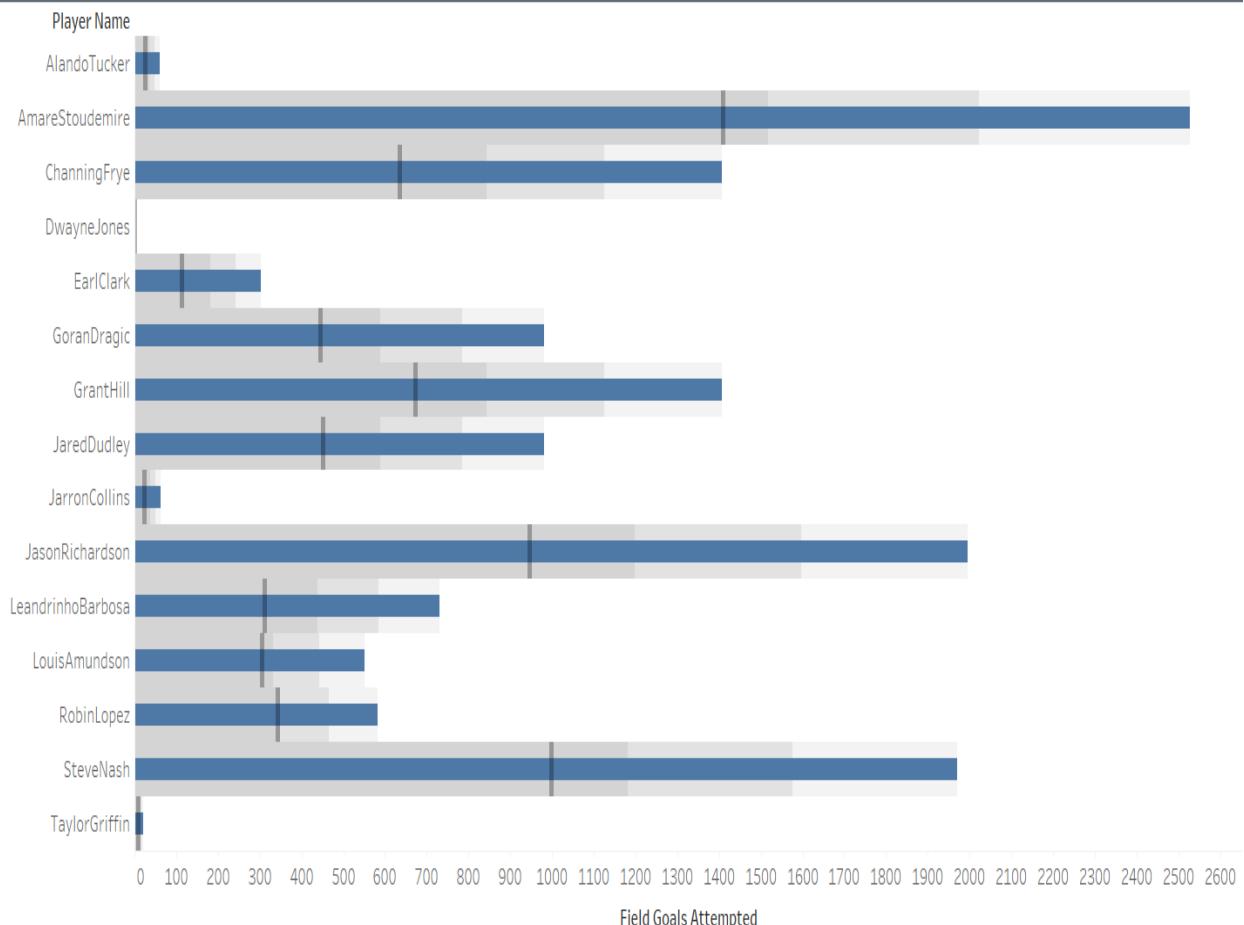
Creating a Combo Chart (dual axis chart)



Attempted and Made for each Player Name. Color shows details about Attempted and Made. The data is filtered on Team Name, Year and League. The Team Name filter keeps Suns. The Year filter keeps 2009. The League filter keeps N.

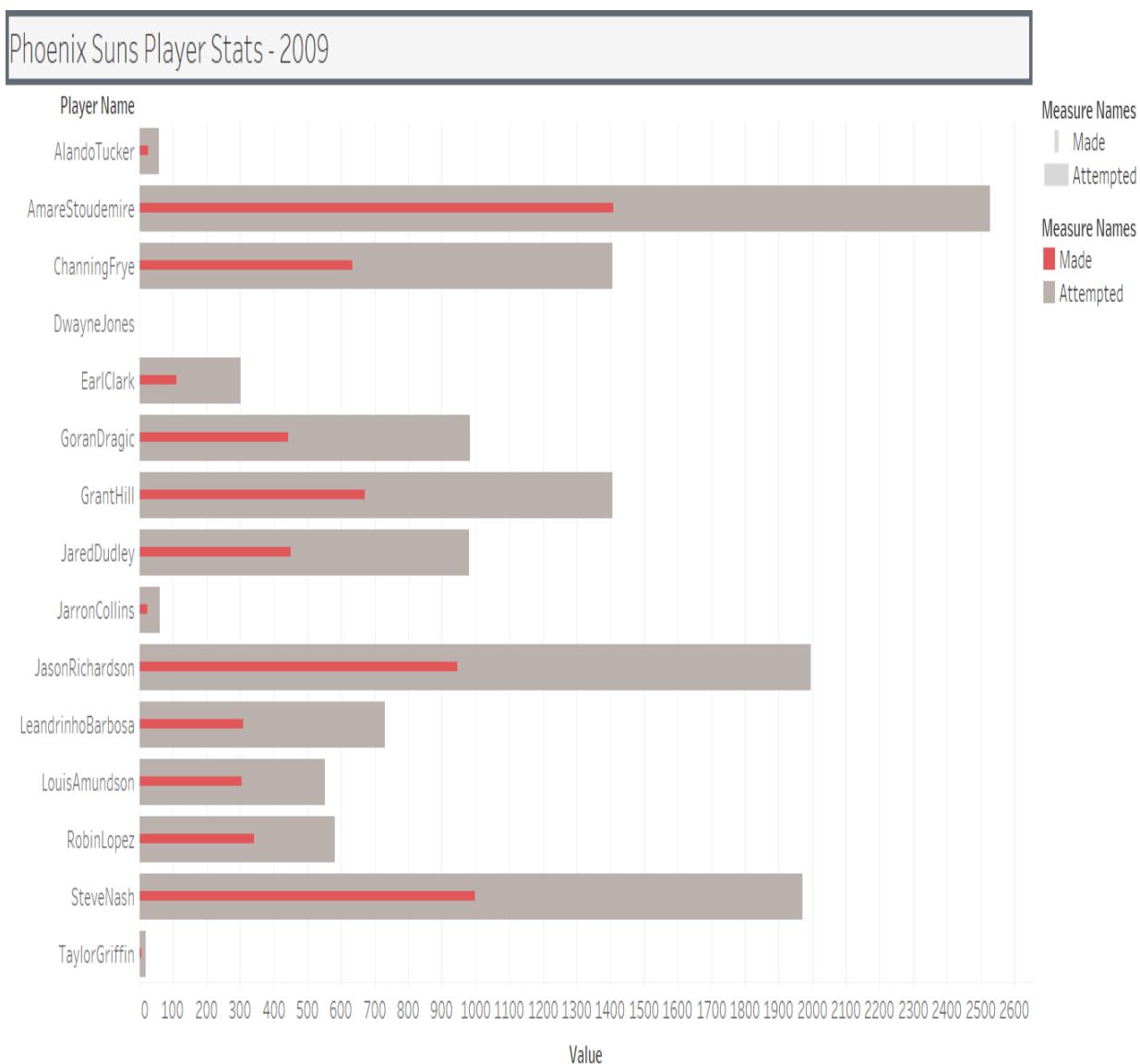
Creating a Bullet Chart

Phoenix Suns Player Stats - 2009



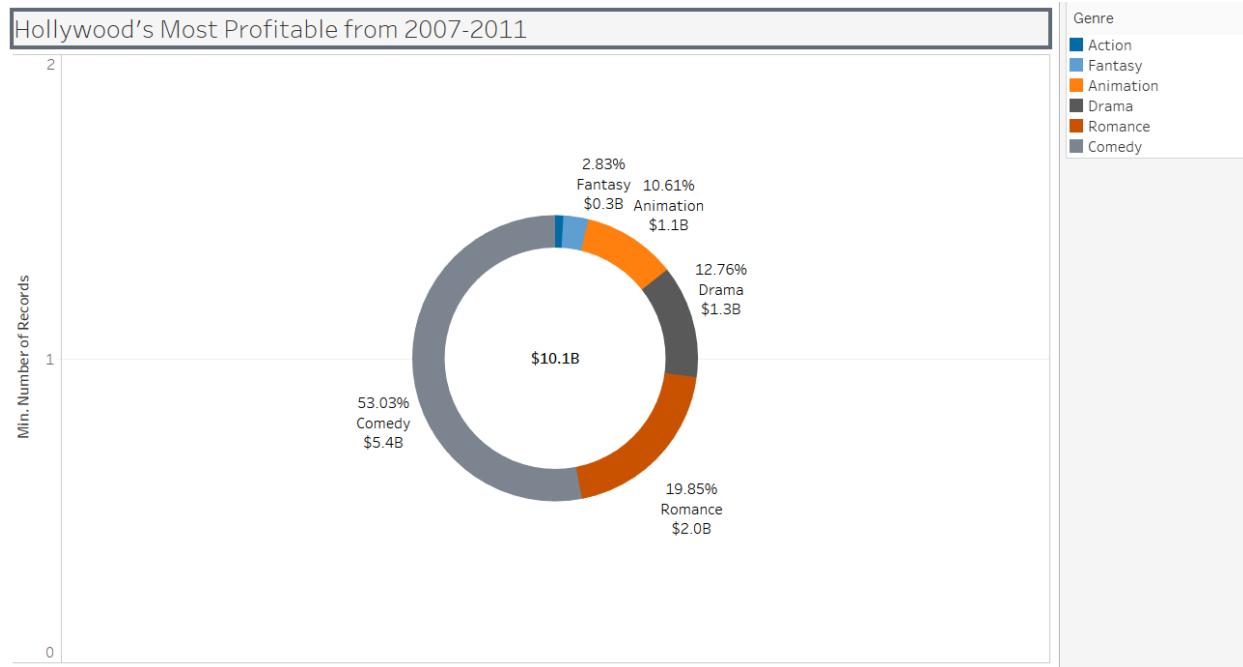
Sum of Field Goals Attempted for each Player Name. The data is filtered on Team Name, Year and League. The Team Name filter keeps Suns. The Year filter keeps 2009. The League filter keeps N.

Creating a Bar in Bar Chart

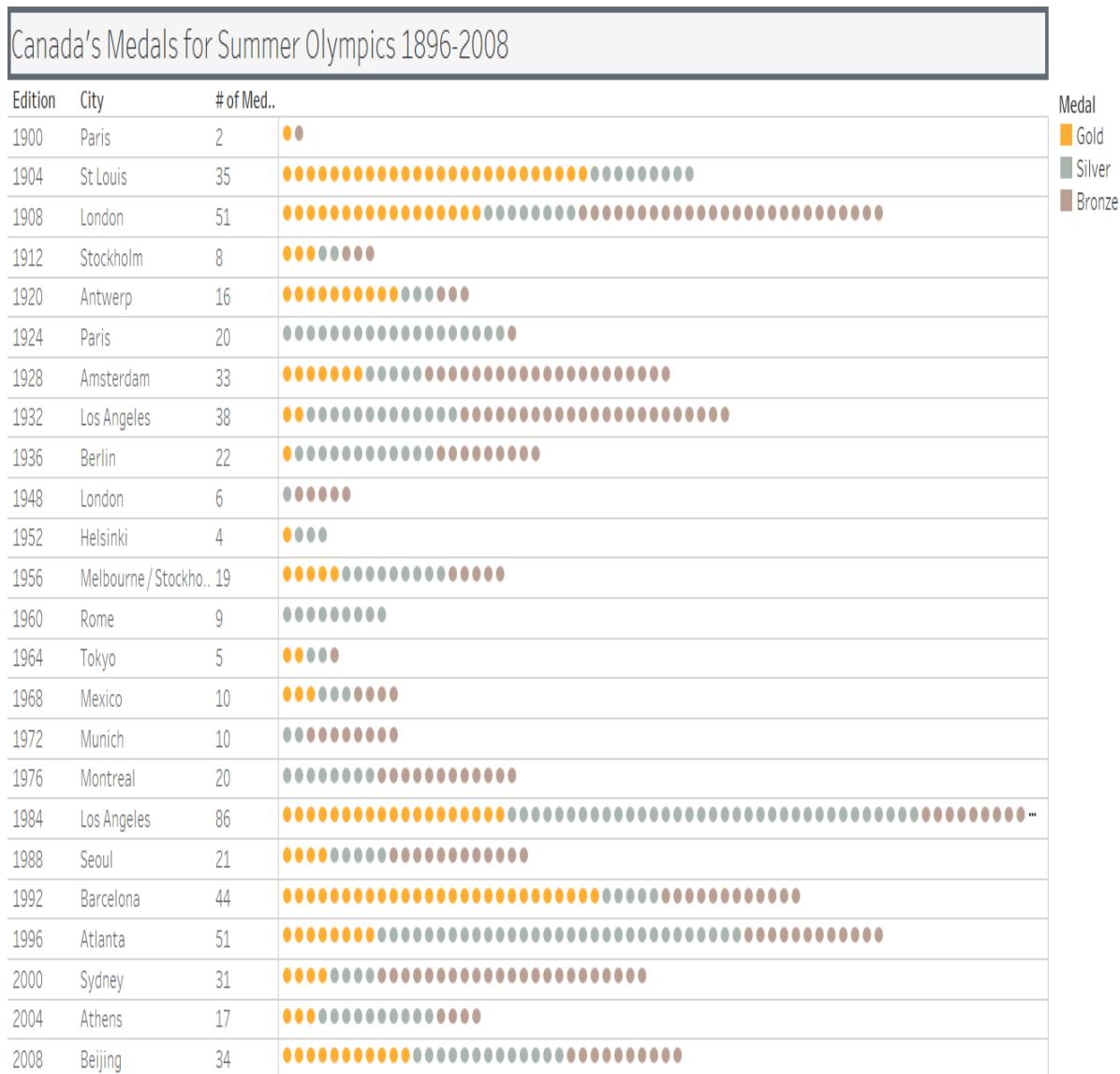


Made and Attempted for each Player Name. Color shows details about Made and Attempted. Size shows details about Made and Attempted. The data is filtered on Team Name, League and Year. The Team Name filter keeps Suns. The League filter keeps N. The Year filter keeps 2009.

Creating a Donut Chart



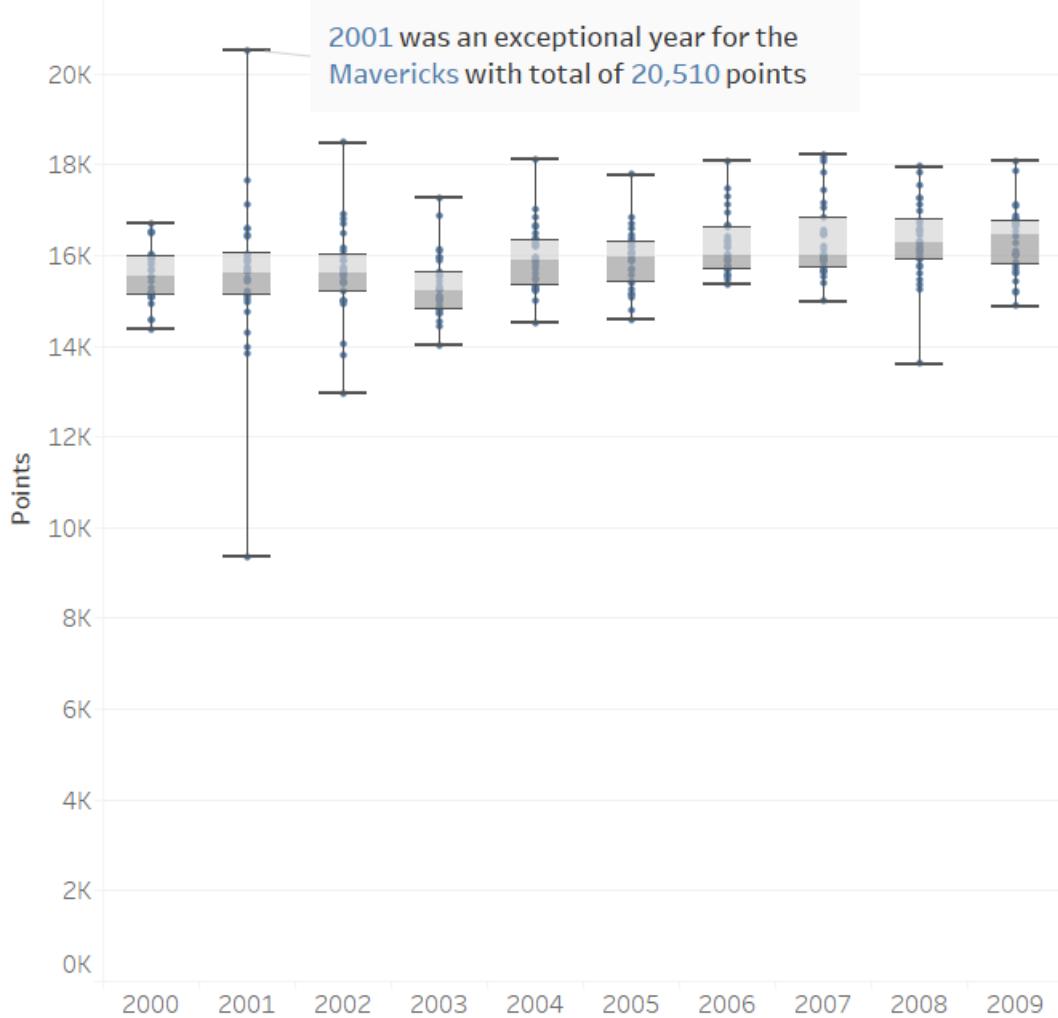
Creating a Unit Chart



Medal (color) broken down by Edition, City and # of Medals. Details are shown for Athlete. The data is filtered on NOC, which keeps CAN.

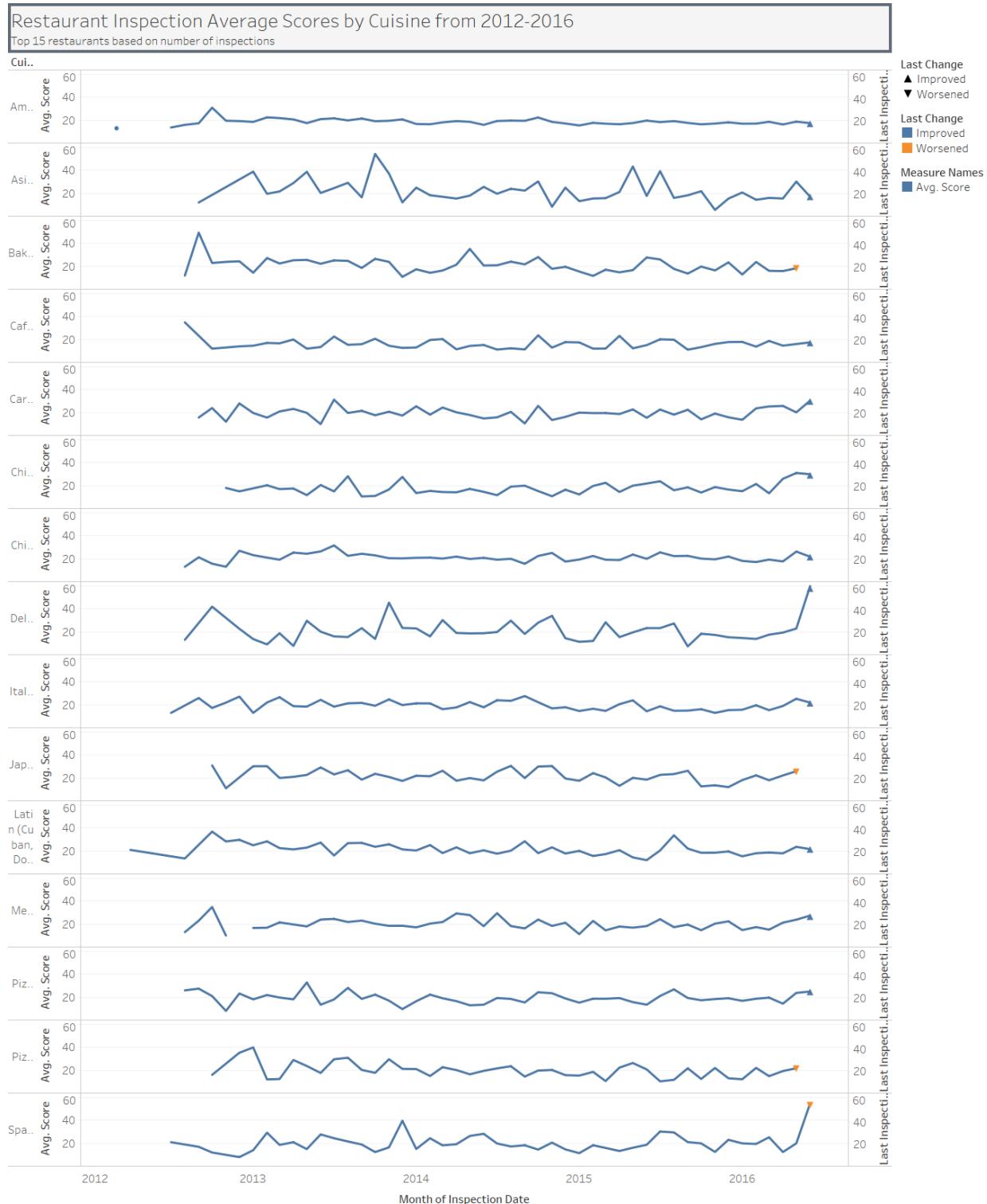
Creating a Box and Whisker Chart

NBA Points by Teams from 2000 - 2009



Sum of Points for each Year. Details are shown for Team Name. The data is filtered on League, which keeps N. The view is filtered on Year, which keeps 10 members.

Creating a Sparkline with Indicators

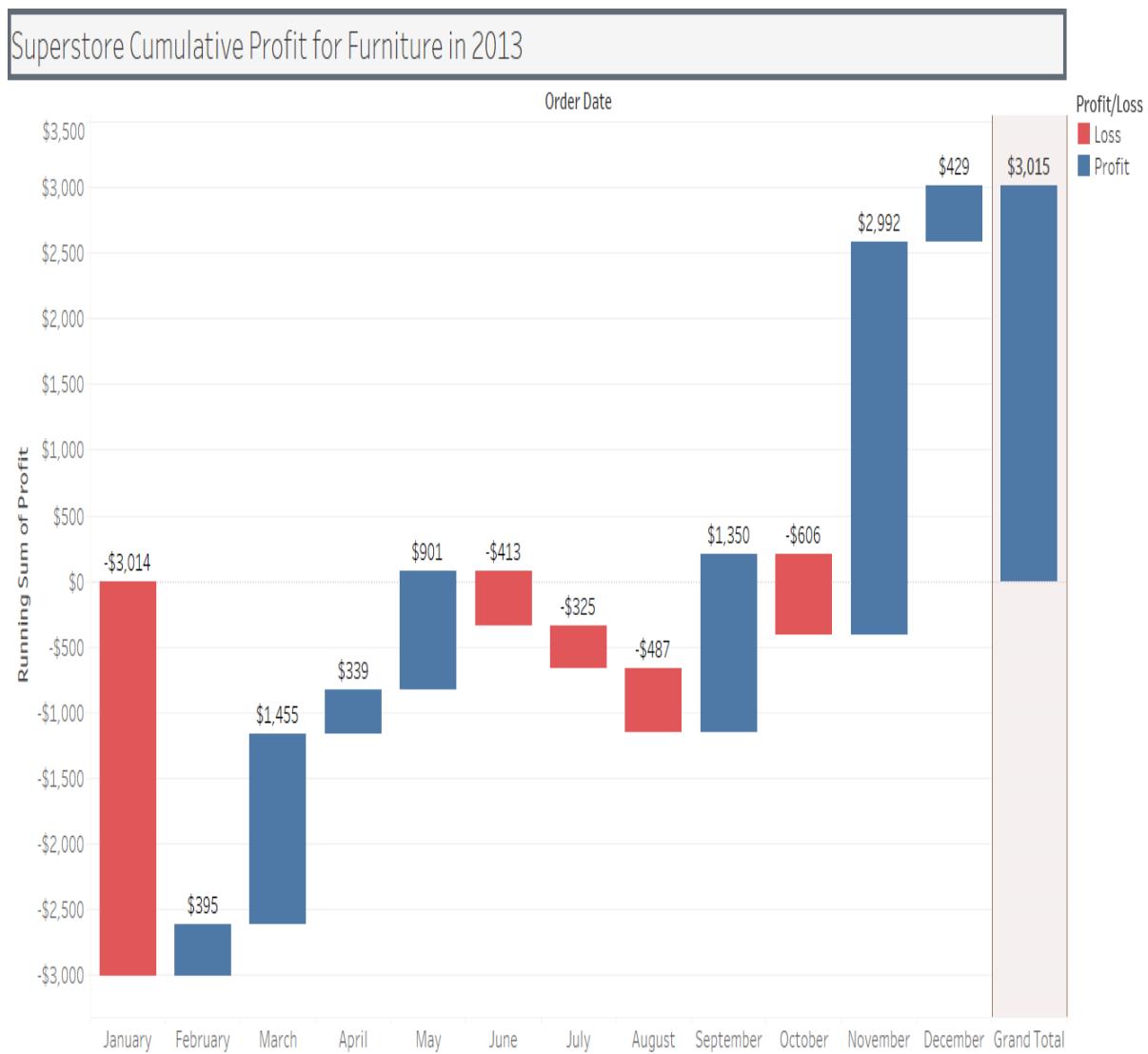


The trends of Avg. Score and Last Inspection Avg Score for Inspection Date Month broken down by Cuisine Description. For pane Average of Score: Color shows details about Avg. Score. For pane Last Inspection Avg Score: Color shows details about Last Change. Shape shows details about Last Change. The data is filtered on Inspection Date Year, which has multiple members selected. The view is filtered on Cuisine Description, which has multiple members selected.

Creating a KPI Text Table

The book had issues for this visualization

Creating a Waterfall Chart

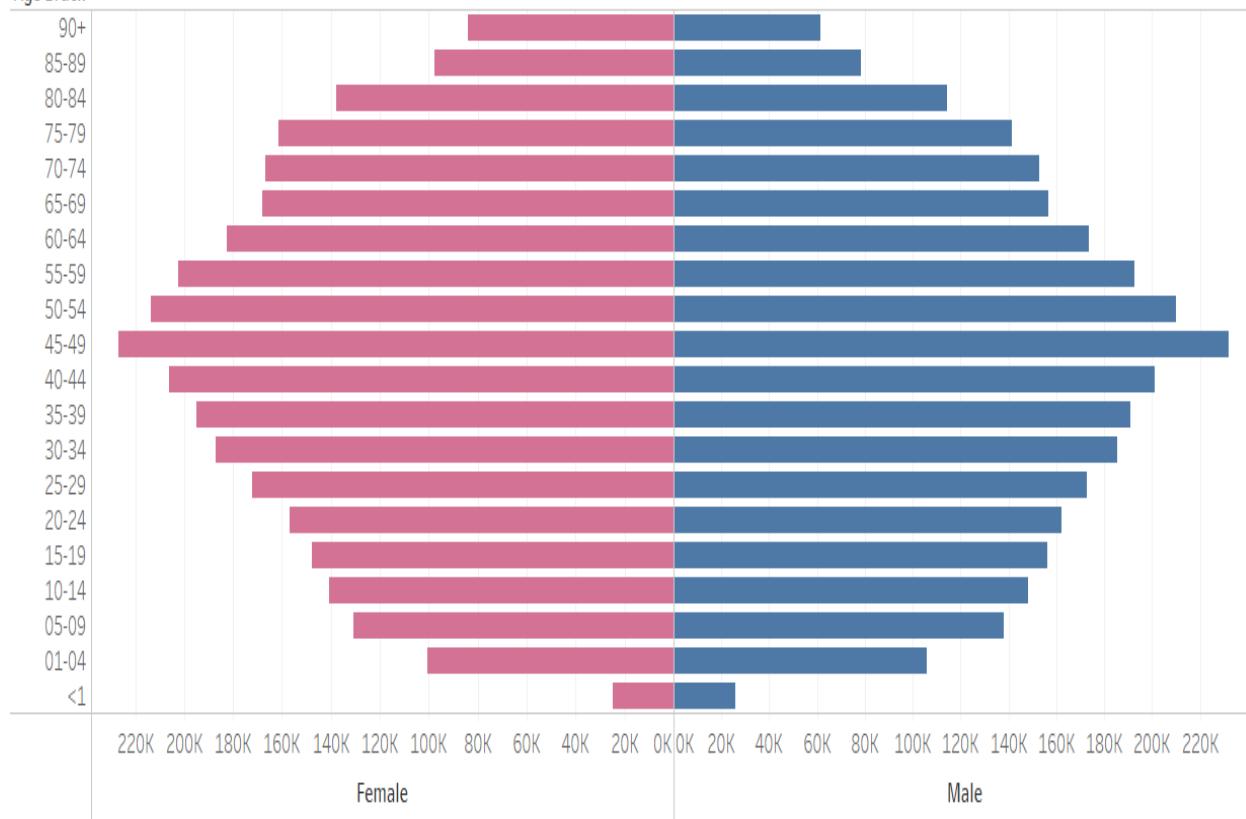


Running Sum of Profit for each Order Date Month. Color shows details about Profit/Loss. Size shows sum of Negative profit. The marks are labeled by sum of Profit. The data is filtered on Category and Order Date Year. The Category filter keeps Furniture. The Order Date Year filter keeps 2013.

Creating a Population Pyramid

BC Population - 2041

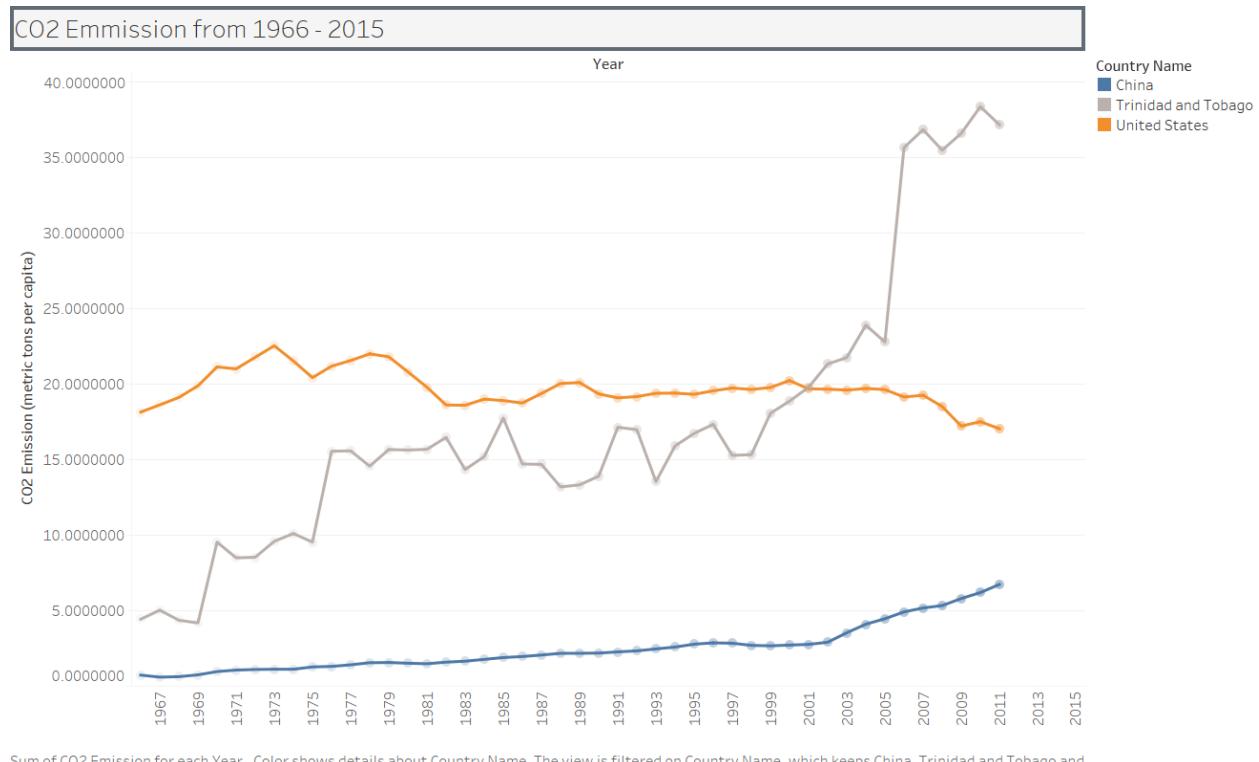
Age Brac..



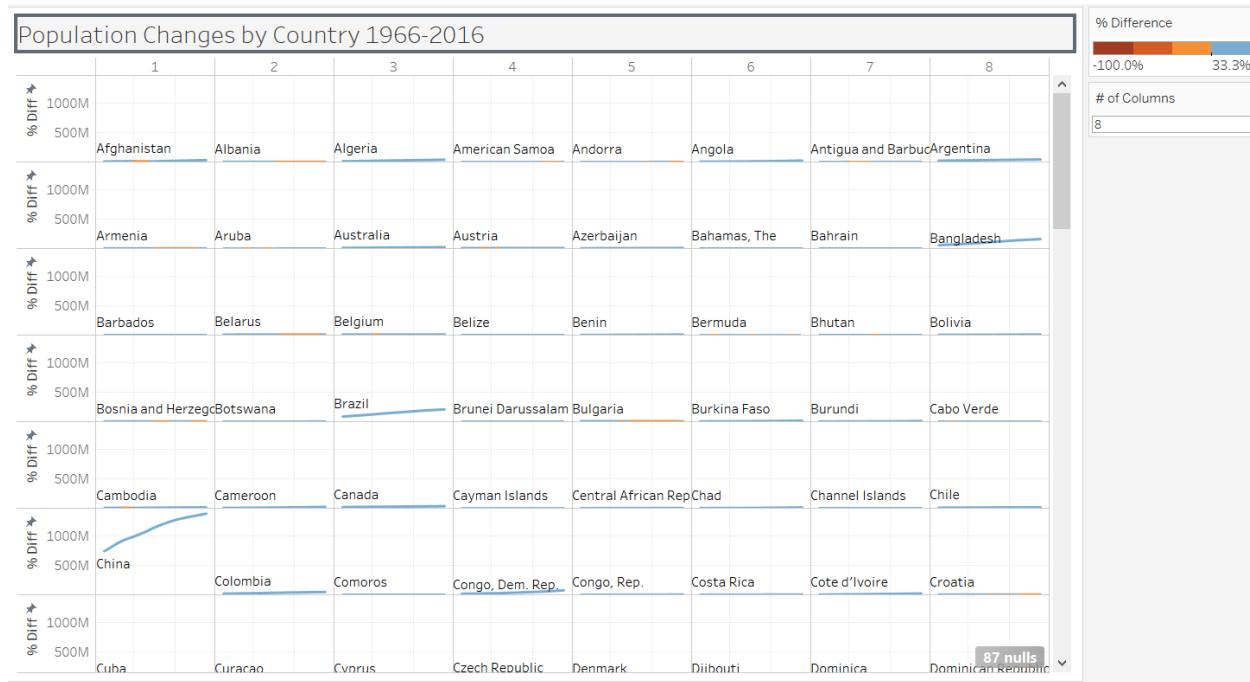
Sum of Female and sum of Male for each Age Bracket. The view is filtered on Age Bracket, which excludes Total.

Chapter 3 - Interactivity

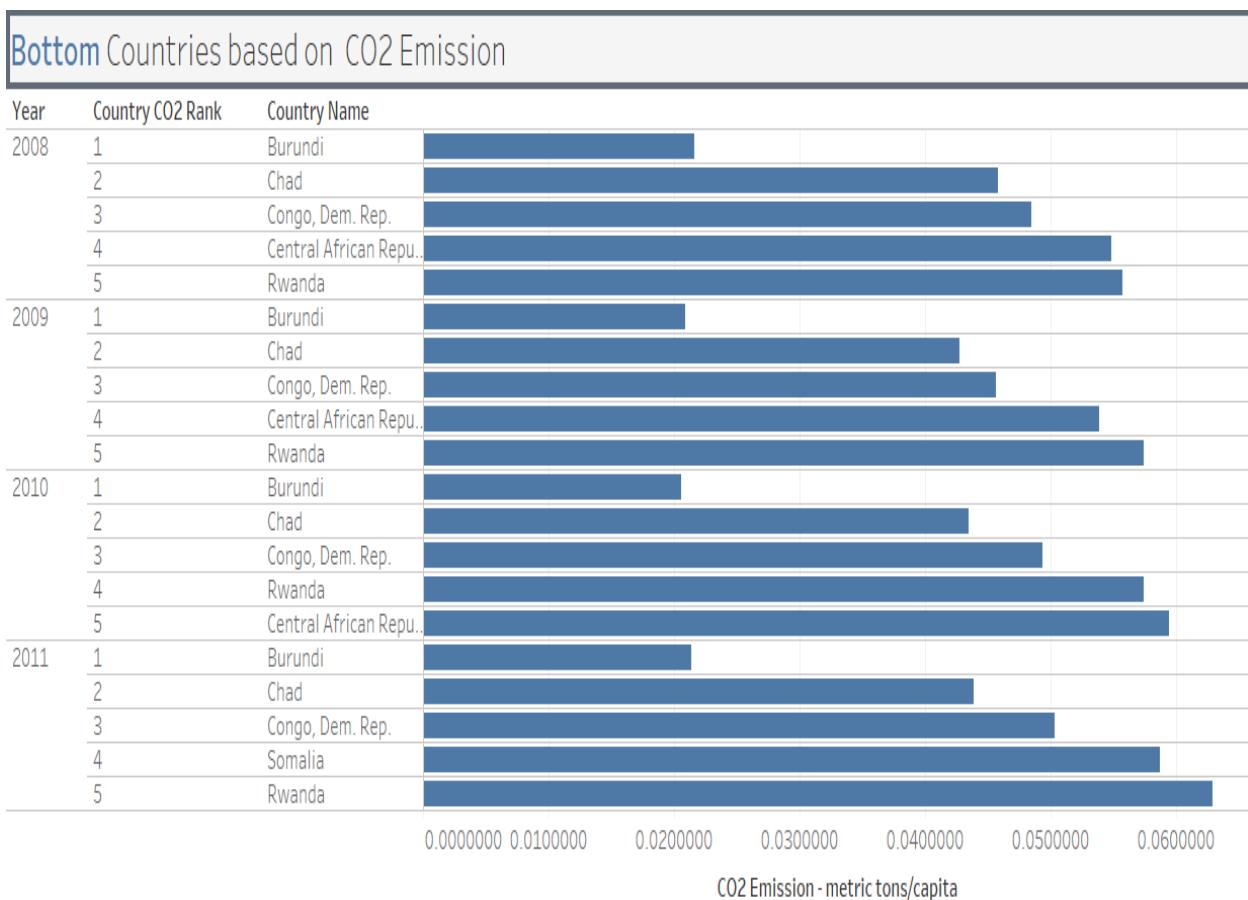
Creating a Motion Chart



Creating a Dynamic Column / Row Trellis Chart

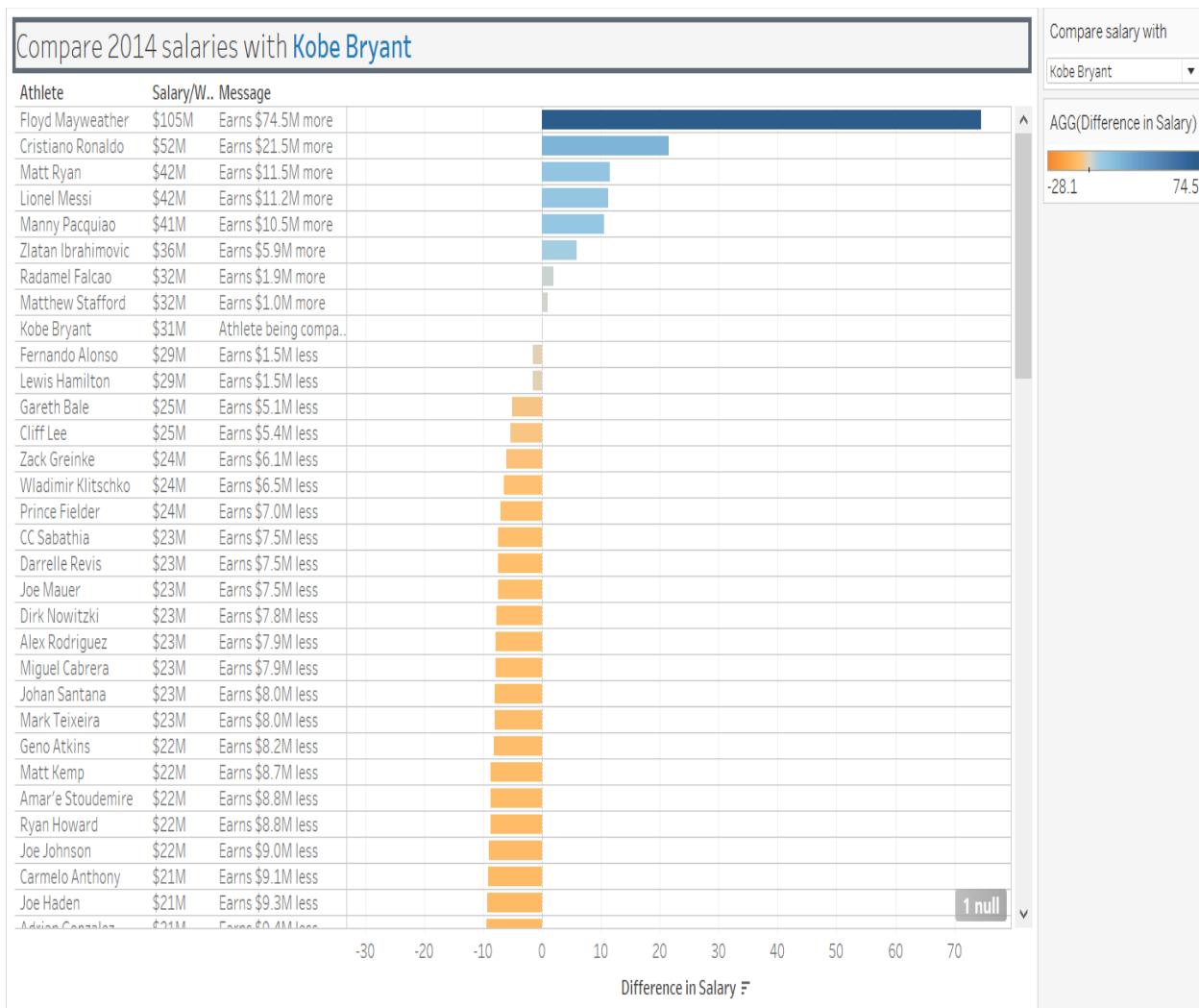


Creating a Top / Bottom N Filter

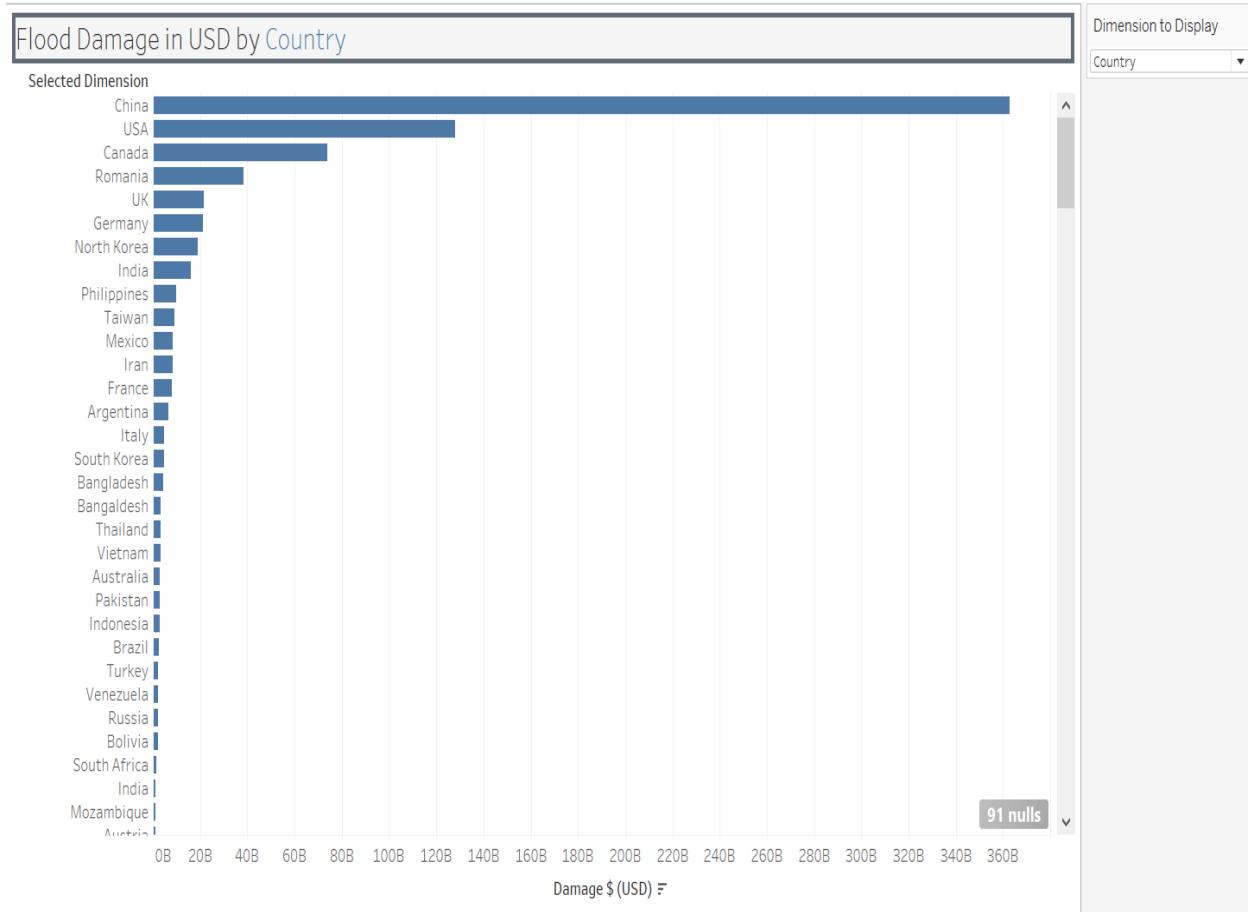


Sum of CO2 Emission for each Country CO2 Rank broken down by Year and Country Name. The data is filtered on Country CO2 Rank and Year. The Country CO2 Rank filter ranges from 1 to 5. The Year filter ranges from 2008 to 2011.

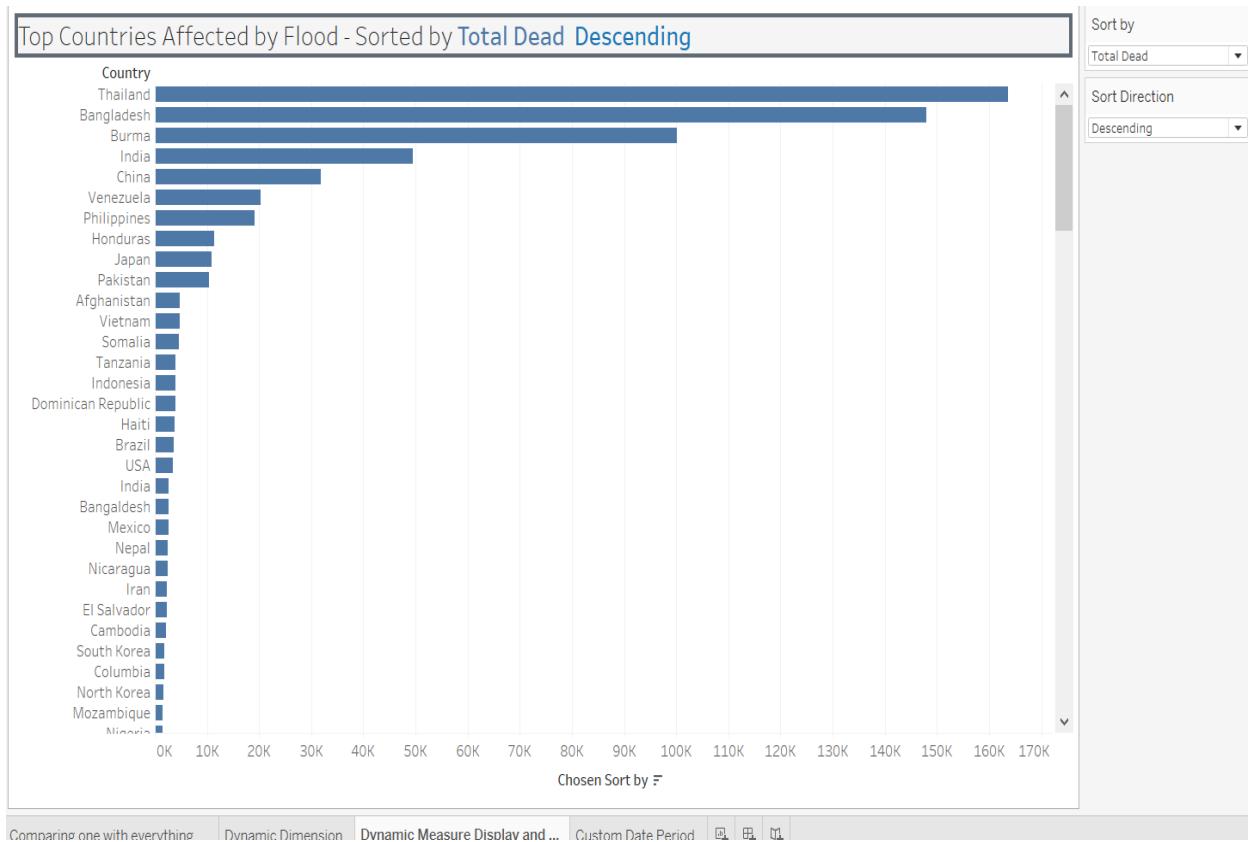
Comparing One to Everything Else



Dynamically Displaying Dimensions



Dynamically Displaying and Sorting Measures

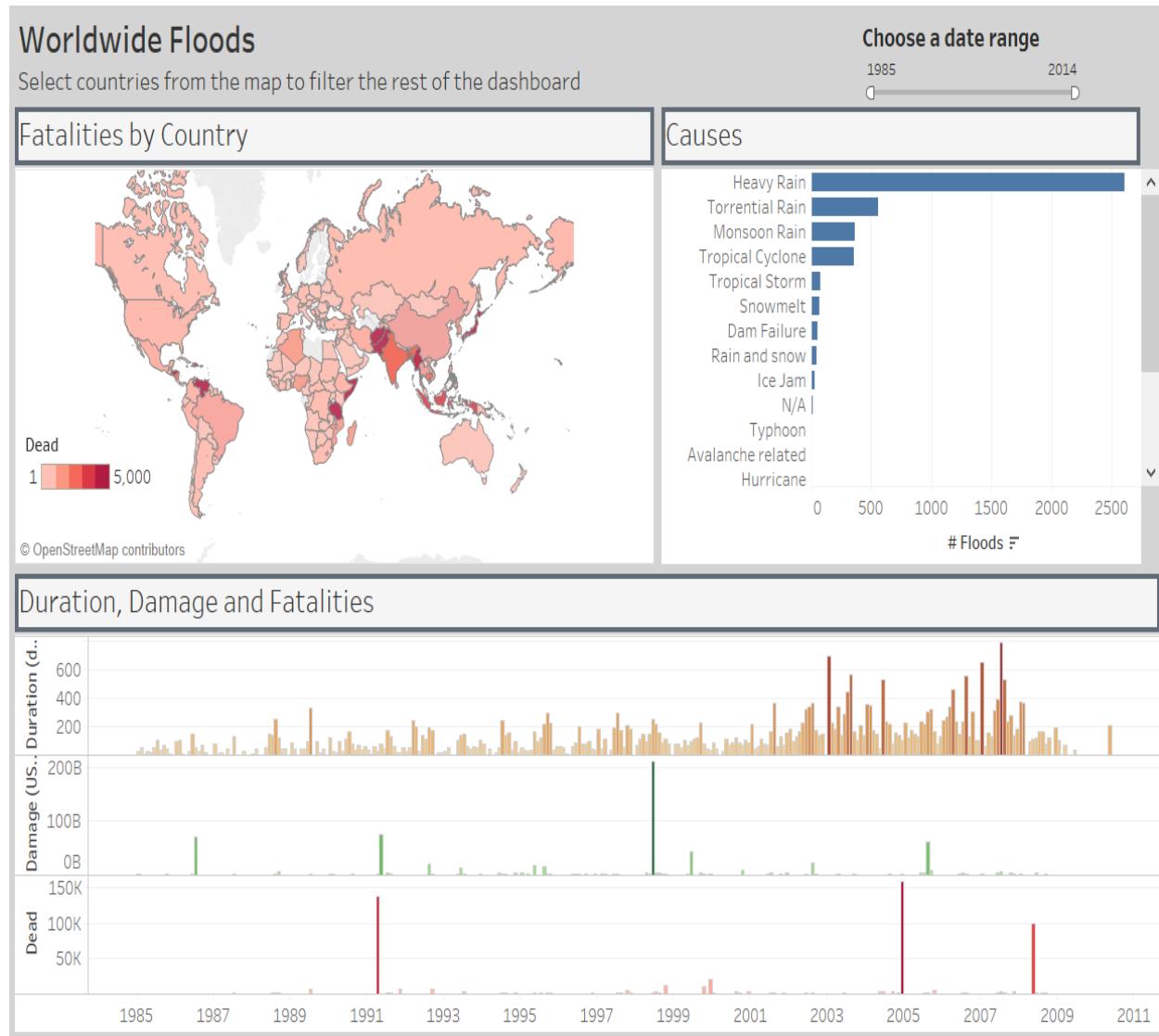


Creating a Custom Date Period Filter

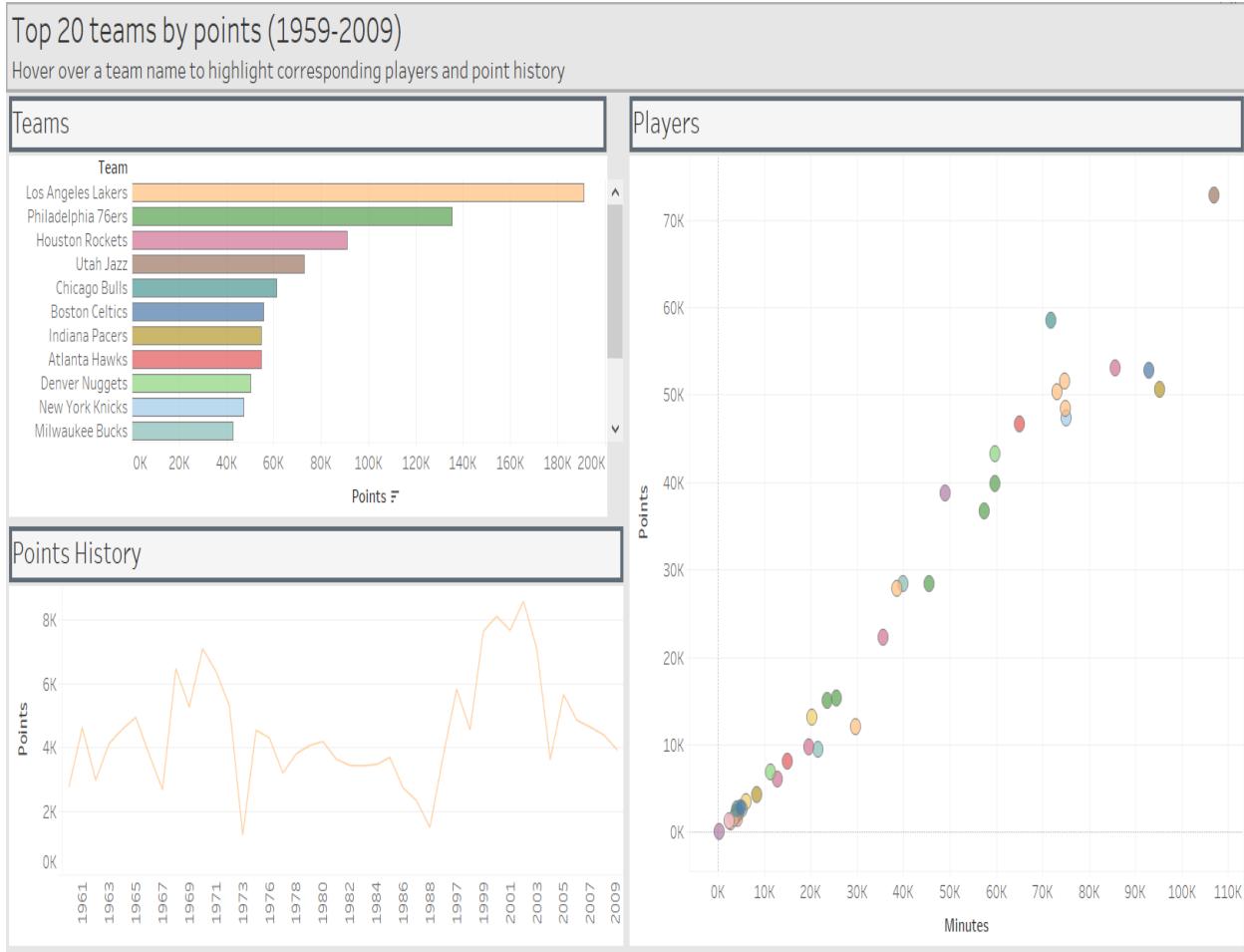
The book had issues for this visualization

Chapter 4 – Dashboards and Story Points

Creating a Filter Action



Creating a Highlight Action



Creating a URL Action

Top 20 Teams by Points (1959-2009)

Click on a team name look up more information

Teams

Team	Points
Los Angeles Lakers	180K
Philadelphia 76ers	135K
Houston Rockets	95K
Utah Jazz	75K
Chicago Bulls	65K
Boston Celtics	60K
Indiana Pacers	55K
Atlanta Hawks	50K
Denver Nuggets	45K
New York Knicks	40K

Points History

The chart displays the total points scored by NBA teams over time. The Y-axis represents Points (0K to 8K) and the X-axis represents years from 1961 to 2009. The data shows significant fluctuations, with major peaks around 1969, 1999, and 2001, and a notable dip in the early 1970s.

Year	Points
1961	4500
1963	3000
1965	5000
1967	2500
1969	7000
1971	4500
1973	1500
1976	3500
1978	4000
1980	4500
1982	3500
1984	3800
1986	3500
1988	2500
1990	5500
1992	7500
1994	8000
1996	7500
1998	4000
2000	5500
2002	4500
2004	5800
2006	4800
2008	5000
2010	4500

NBA.COM

TEAMS • NBA STORE

PRESENTED BY TOYOTA

LAKERS

2017 PRIUS
A NEW ERA OF SHOWTIME

TOYOTA Let's Go Places

EXPLORE

Nance, Clarkson Aim for Expanded Roles This Season

LATEST NEWS

The screenshot shows the NBA.com homepage for the Los Angeles Lakers. It features the Lakers logo at the top left, a search bar, and a menu icon. Below the header is a promotional banner for the 2017 Toyota Prius. The main content area shows a basketball player in a Lakers uniform shooting a free throw. A headline below the player reads "Nance, Clarkson Aim for Expanded Roles This Season". At the bottom of the page is a yellow "LATEST NEWS" banner.

Creating an Infographic-like Dashboard

NBA Players by Points (as of 2009)

Select Player
Moses Malone



Player Name

Player last played for logo

Moses Malo

Player
last
played



2,744

Games Played

20

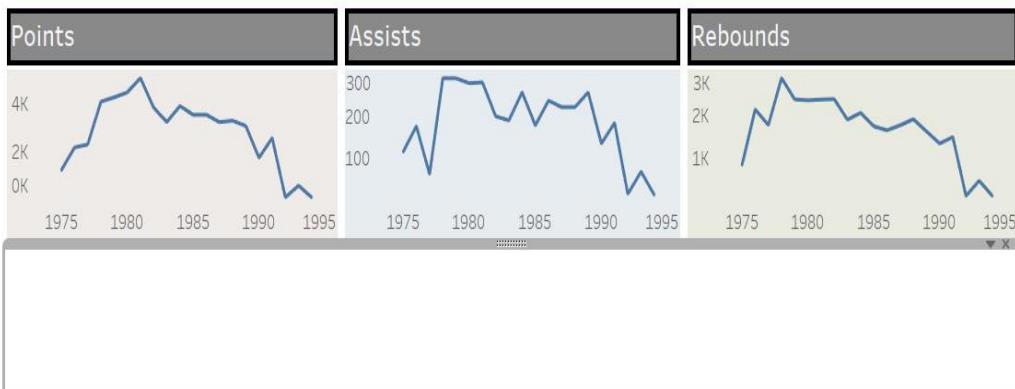
Avg. Pts per Game (5)

1

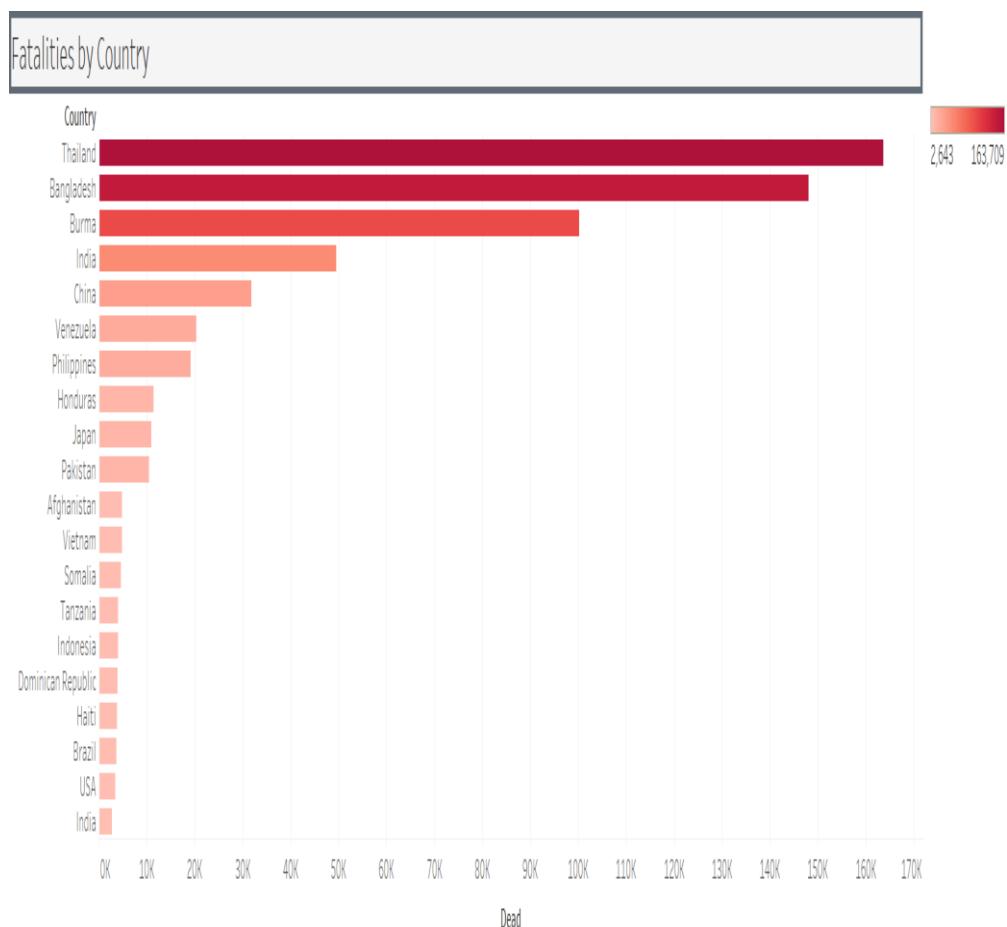
Avg. Steals per Game (5)

1

Avg. Blocks per Game (5)

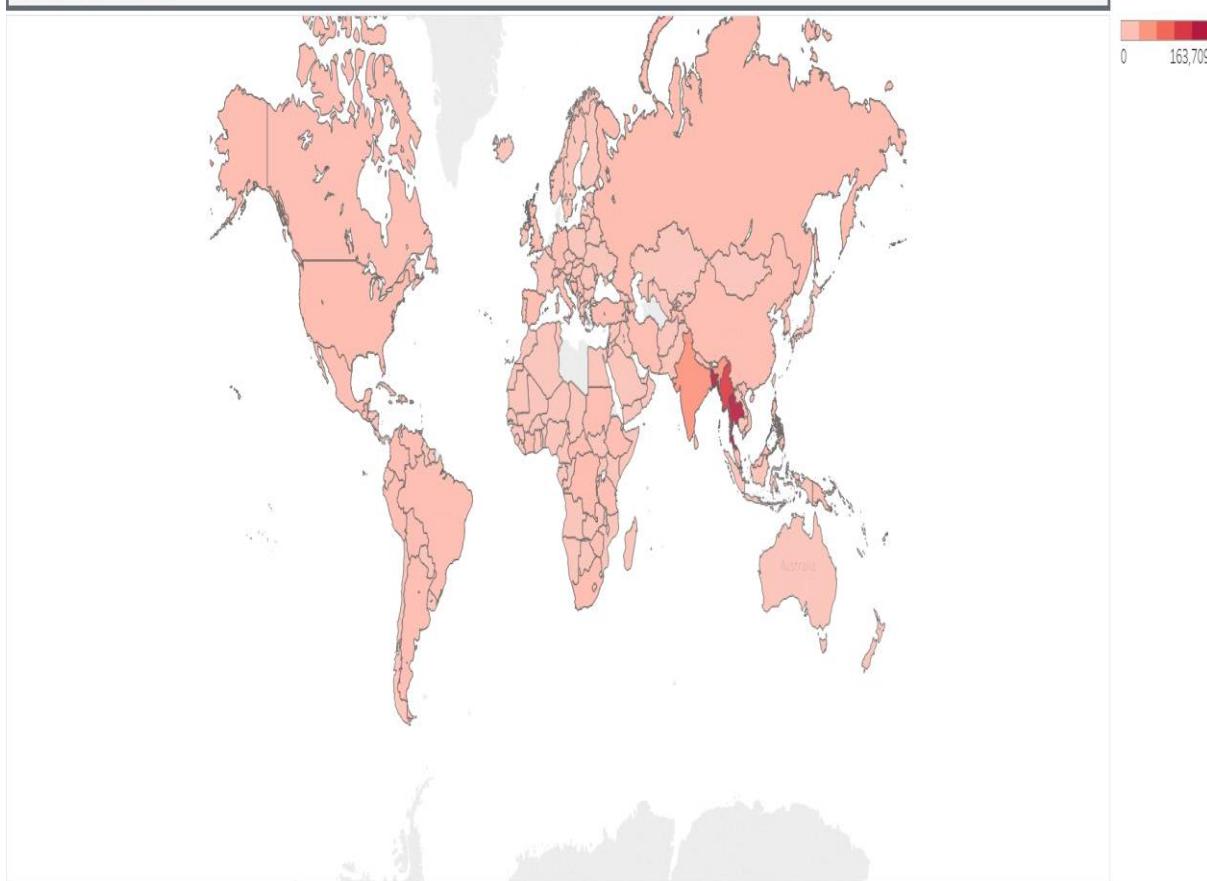


Creating Story Points



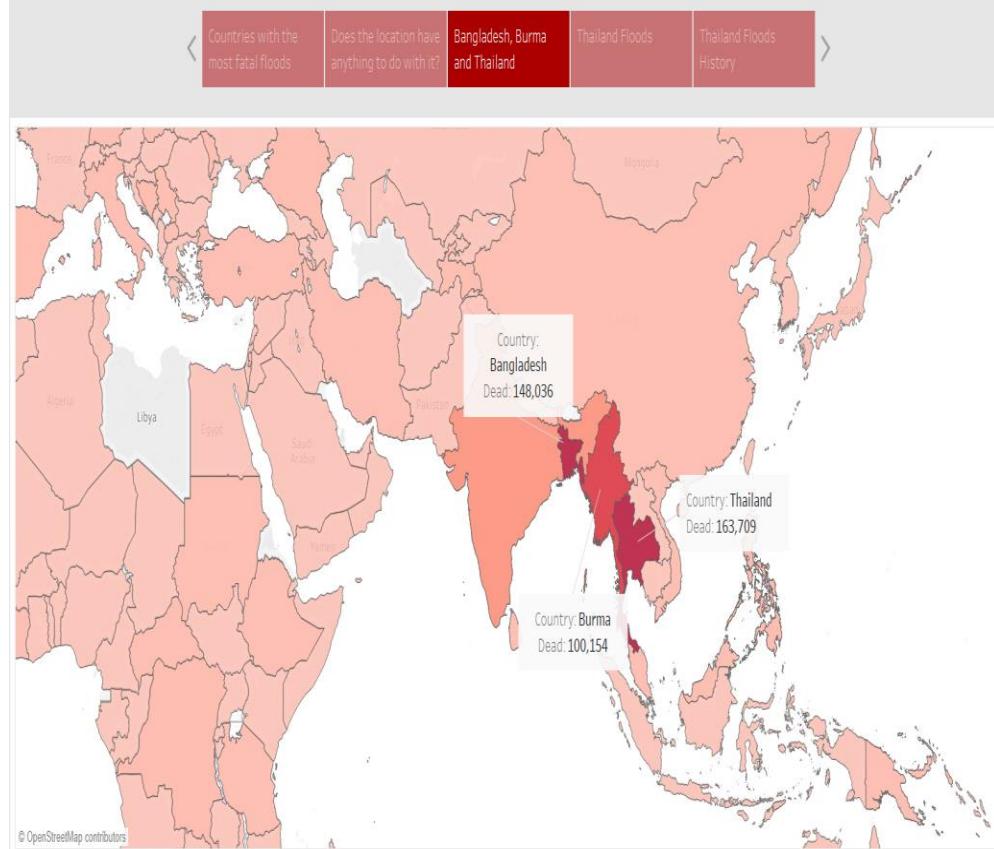
Sum of Dead for each Country. Color shows sum of Dead. The view is filtered on Country, which keeps 20 of 246 members.

Fatalities by Country



Map based on Longitude (generated) and Latitude (generated). Color shows sum of Dead. Details are shown for Country.

Fatal floods through time



Fatal floods through time

< Countries with the most fatal floods | Does the location have anything to do with it? | Bangladesh, Burma and Thailand | Thailand Floods | Thailand Floods History >

Fatalities by Country



© OpenStreetMap contributors

Various regions of Thailand are prone to seasonal flash-flooding due to their tropical savanna climate.

- Wikipedia

A English Not logged in Talk Contributions Create account Log in

Project page Discussion

View View source History

Search Wikimedia Commons



Wiki Loves Monuments: The world's largest photography competition is now open! Photograph a historic site, learn more about our history, and win prizes.



Main page
Welcome
Community portal
Village pump
Help center

Language select
English

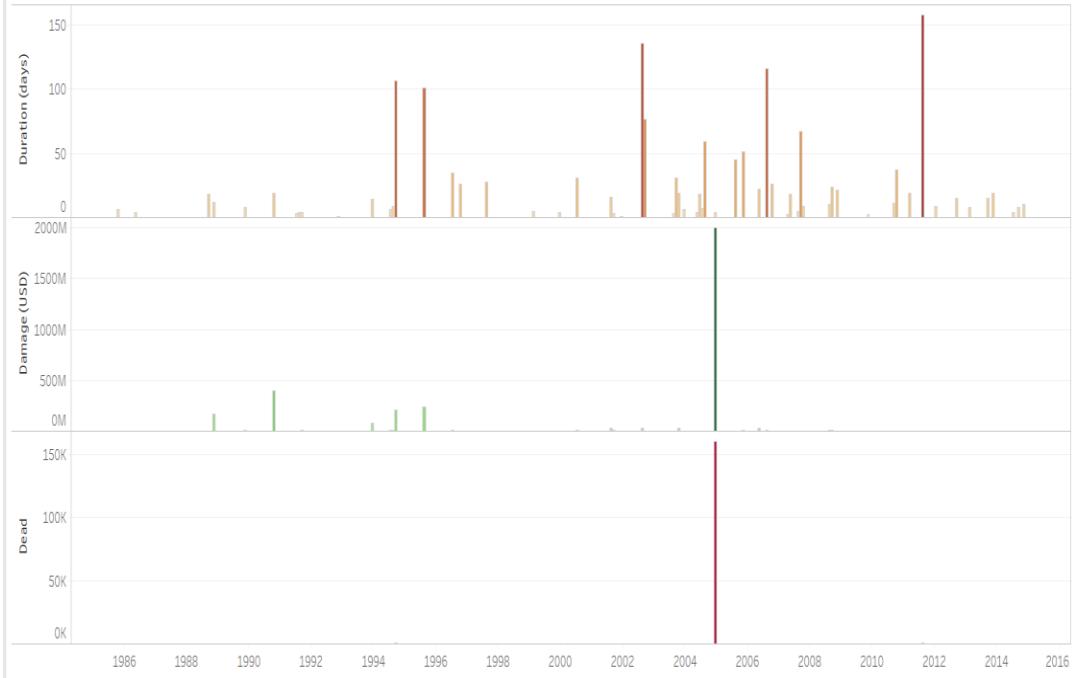


Commons:Wiki Loves Monuments 2017 in the United States

From Wikimedia Commons, the free media repository

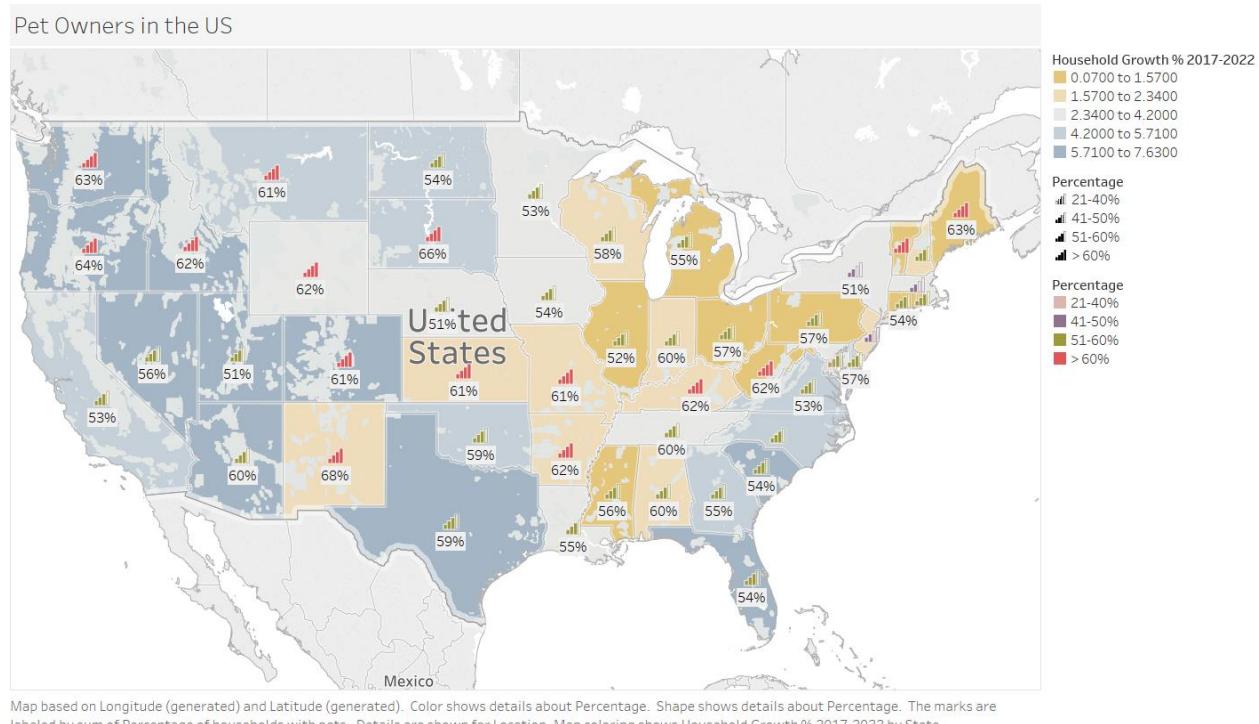
Fatal floods through time

< Countries with the most fatal floods | Does the location have anything to do with it? | Bangladesh, Burma and Thailand | Thailand Floods | Thailand Floods History >

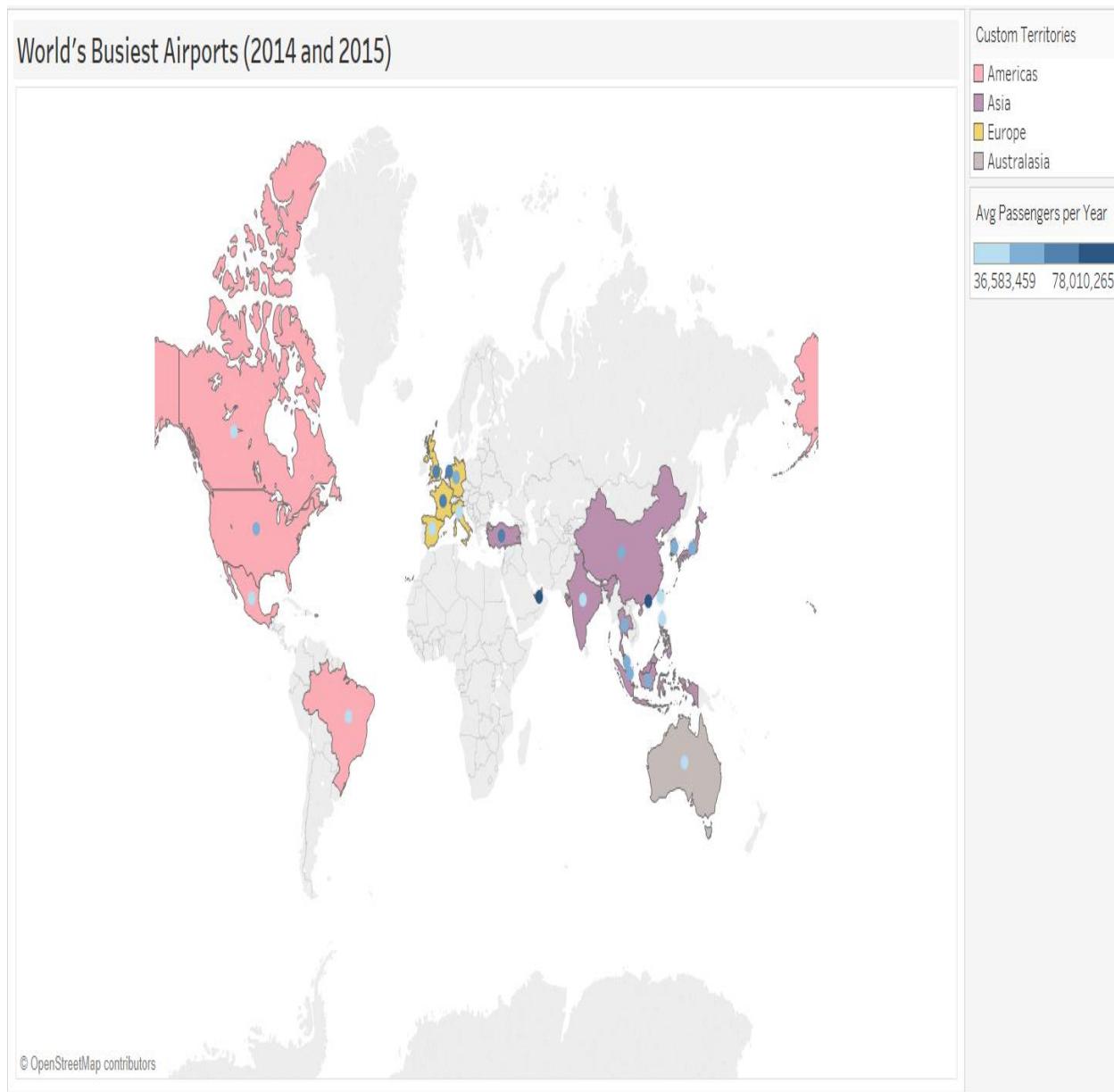


Chapter 5 – Maps and Geospatial Visualization

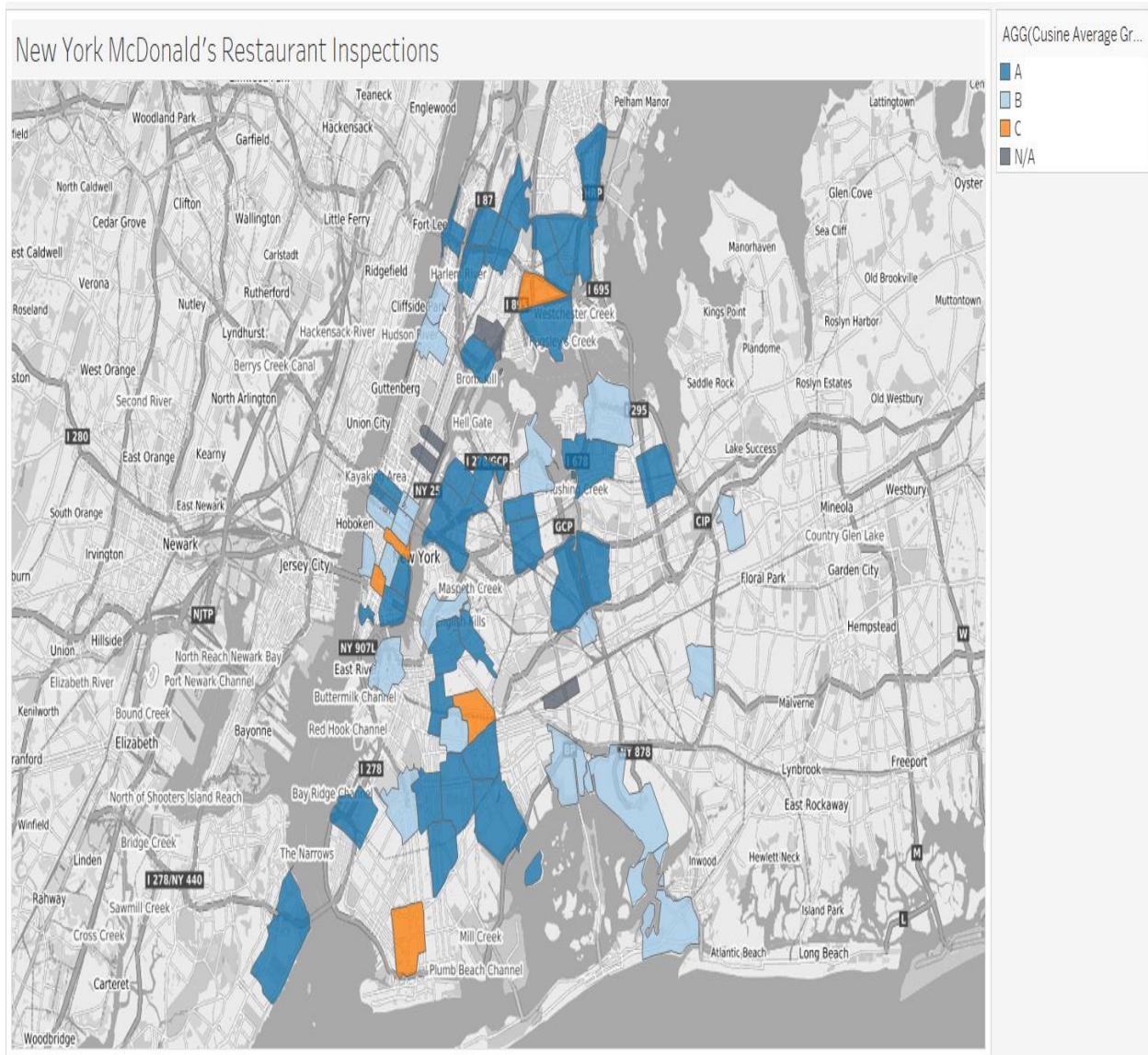
Adding Data Layers to a Map



Creating a Custom Territories



Working with Web Map Service (WMS)



Using a Path to Display Movement in a Map

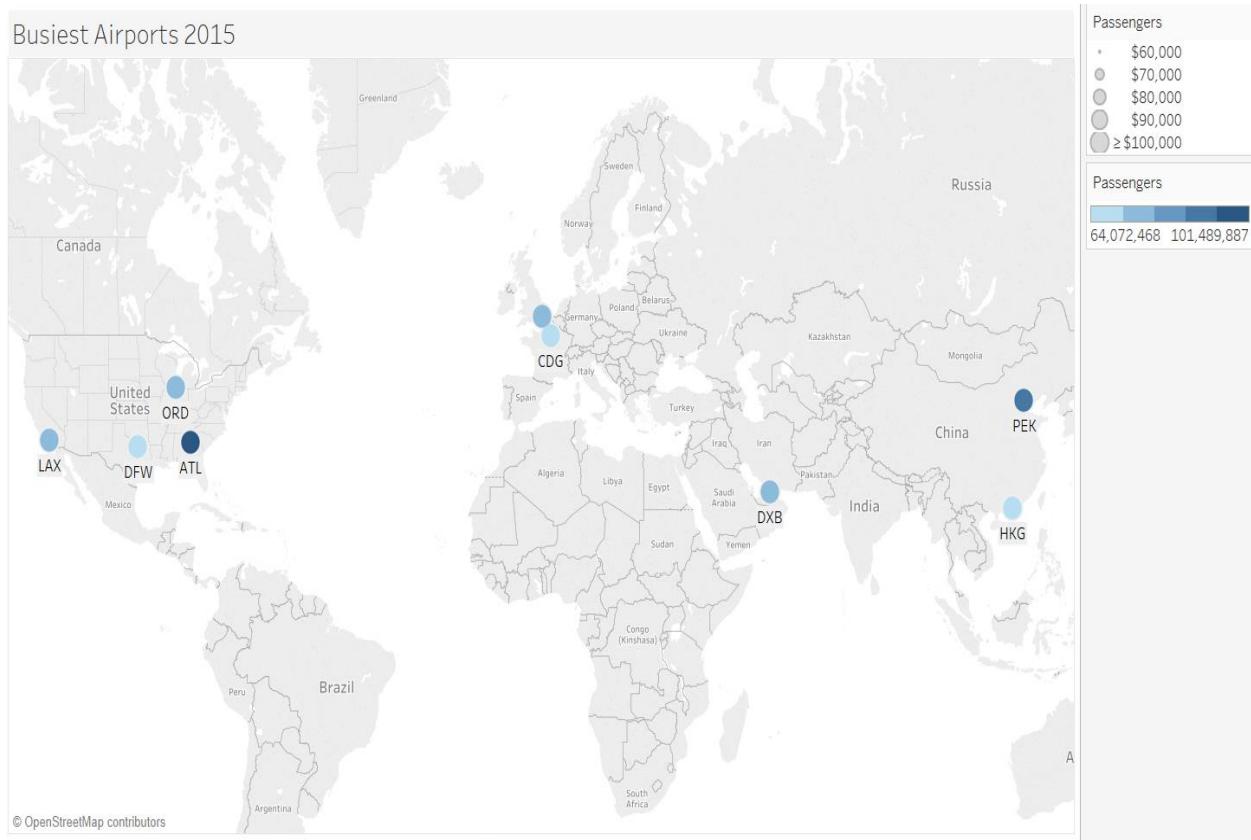
Shaq Attack - Which teams did Shaq play for?



Mapping Custom Polygons

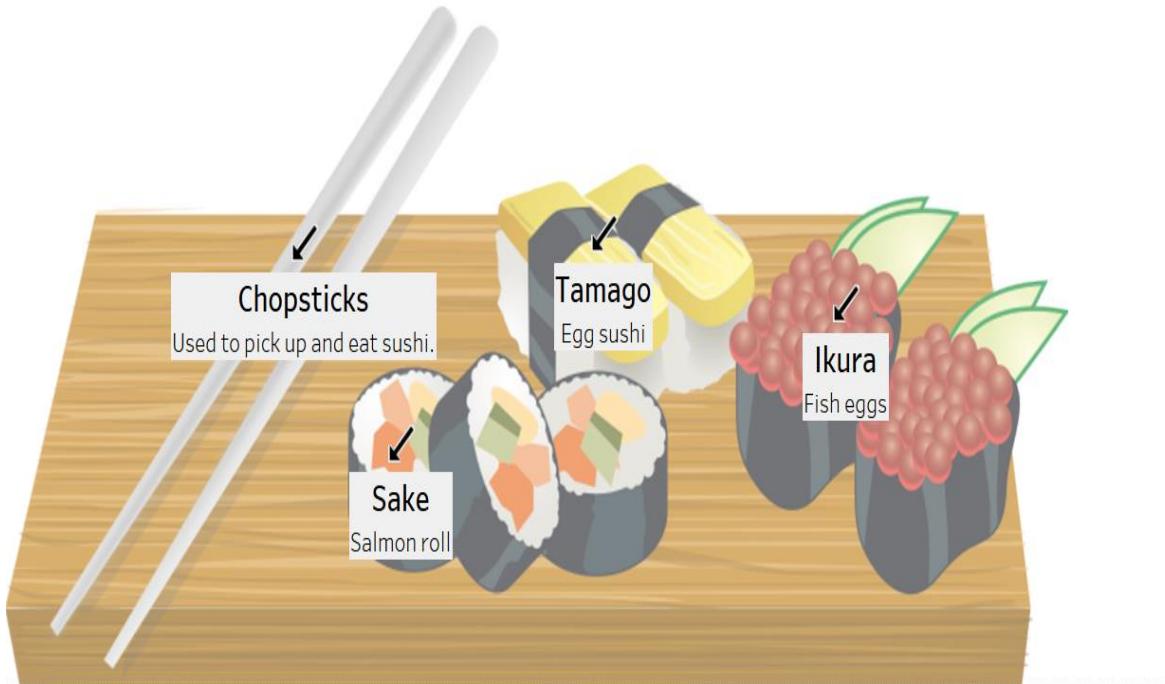
The book had issues for this visualization

Importing Custom Geocoding



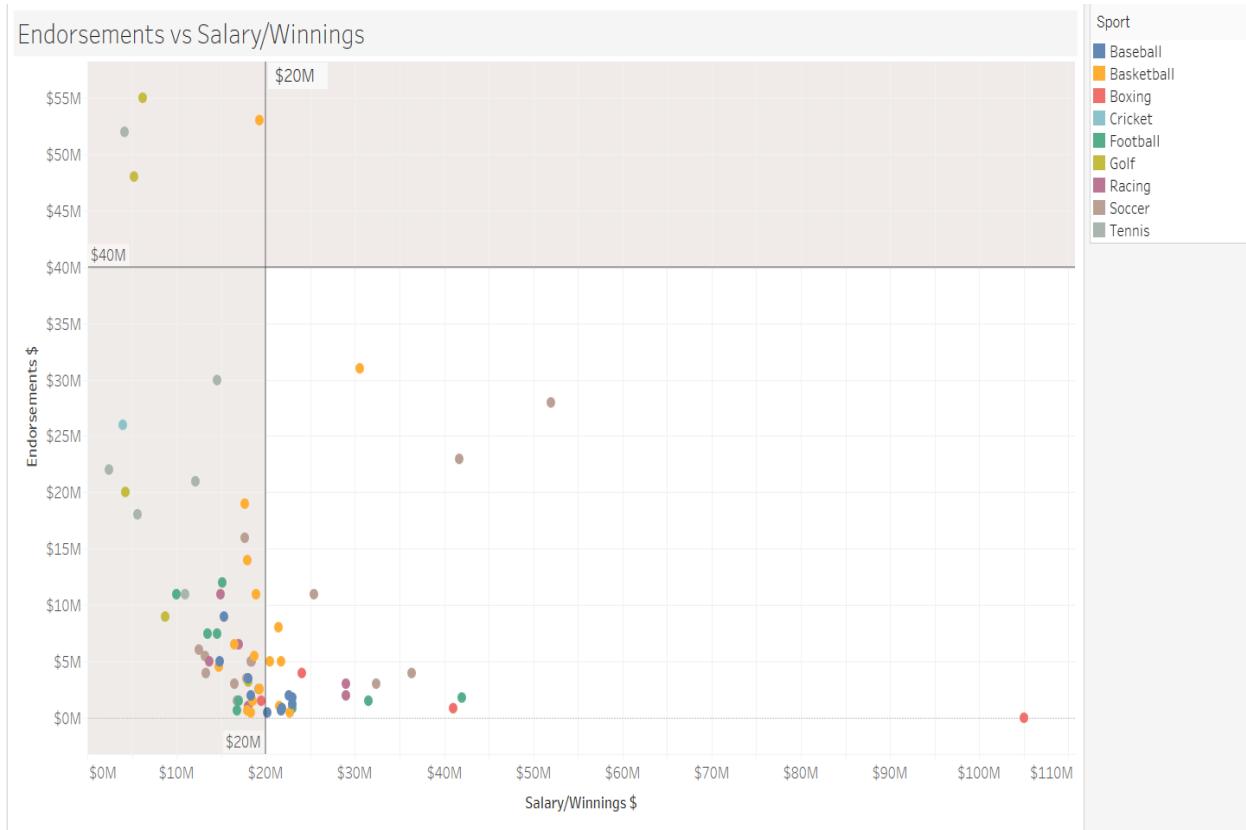
Using a Custom Background Image

Sushi for beginners



Chapter 6 – Analytics

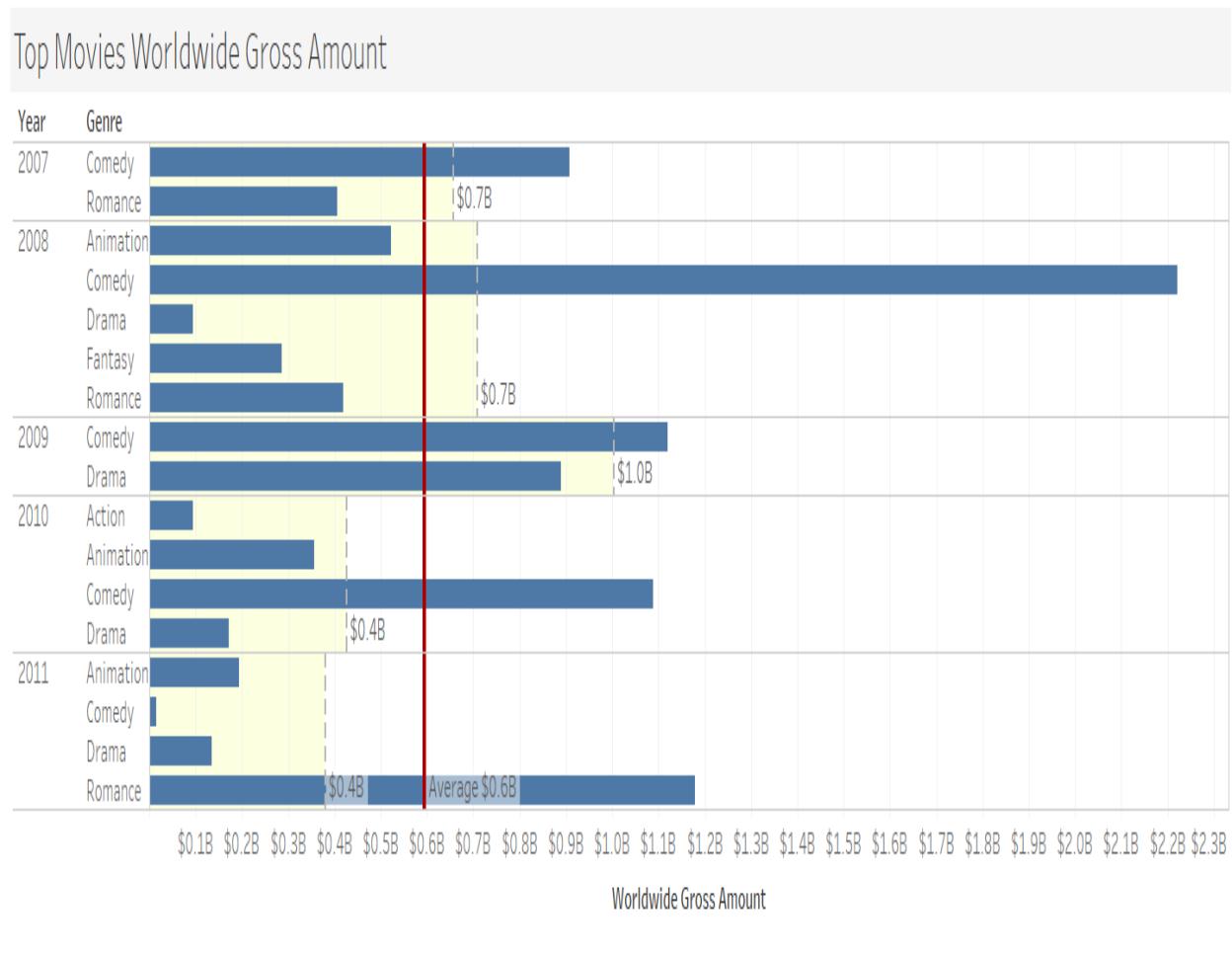
Adding a Constant Line



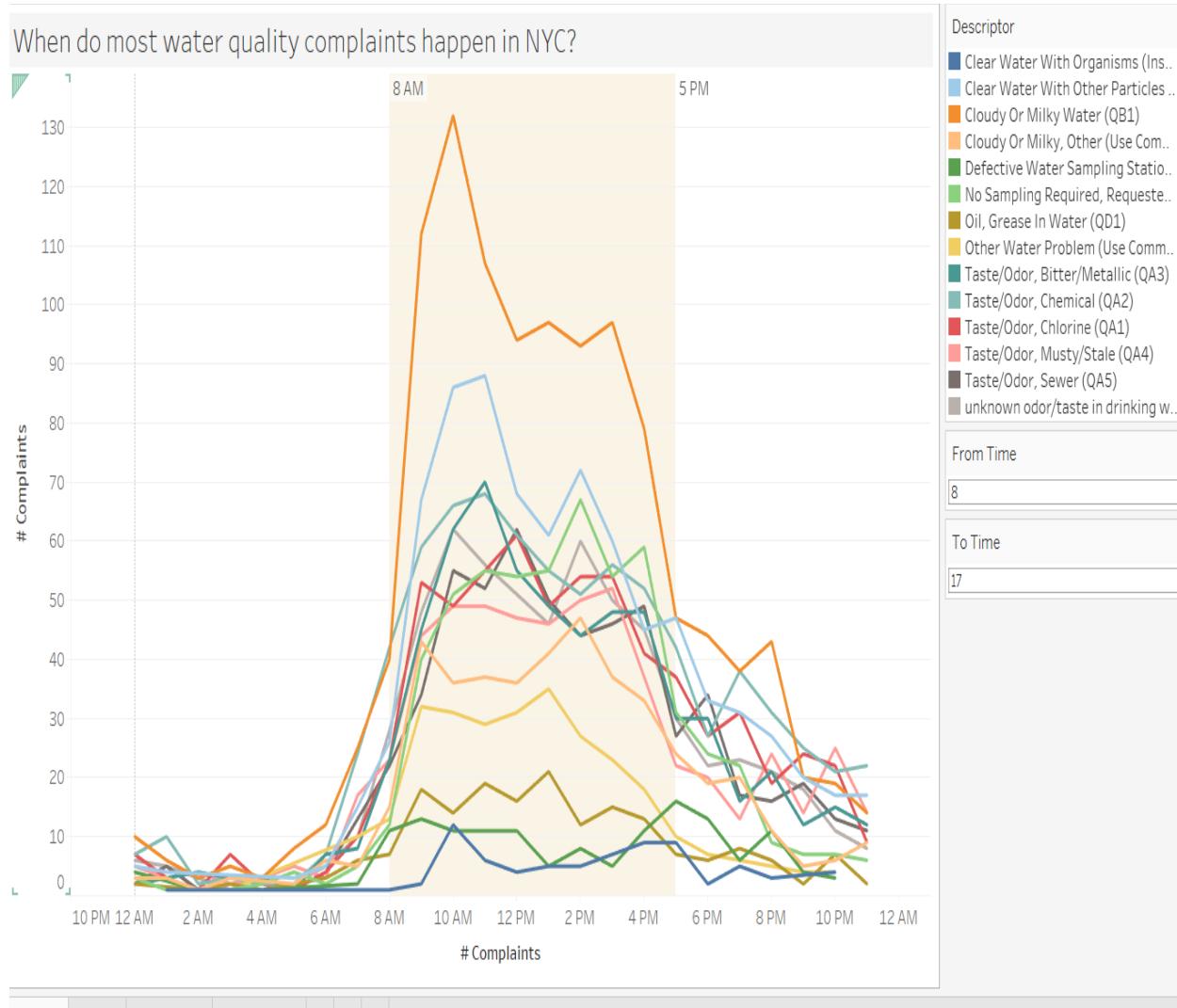
Adding a Trend Line



Using a Reference Line

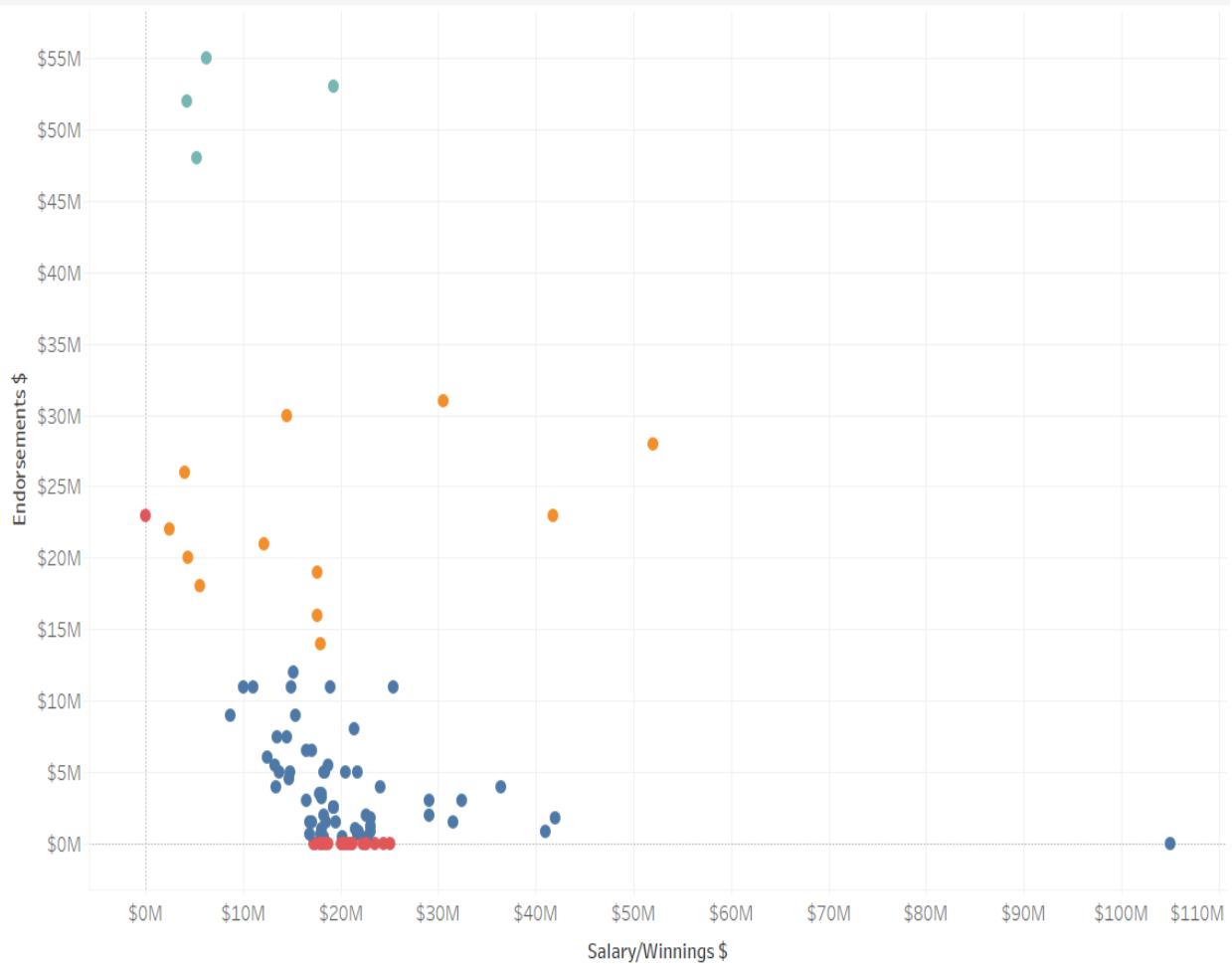


Adding a Reference Band

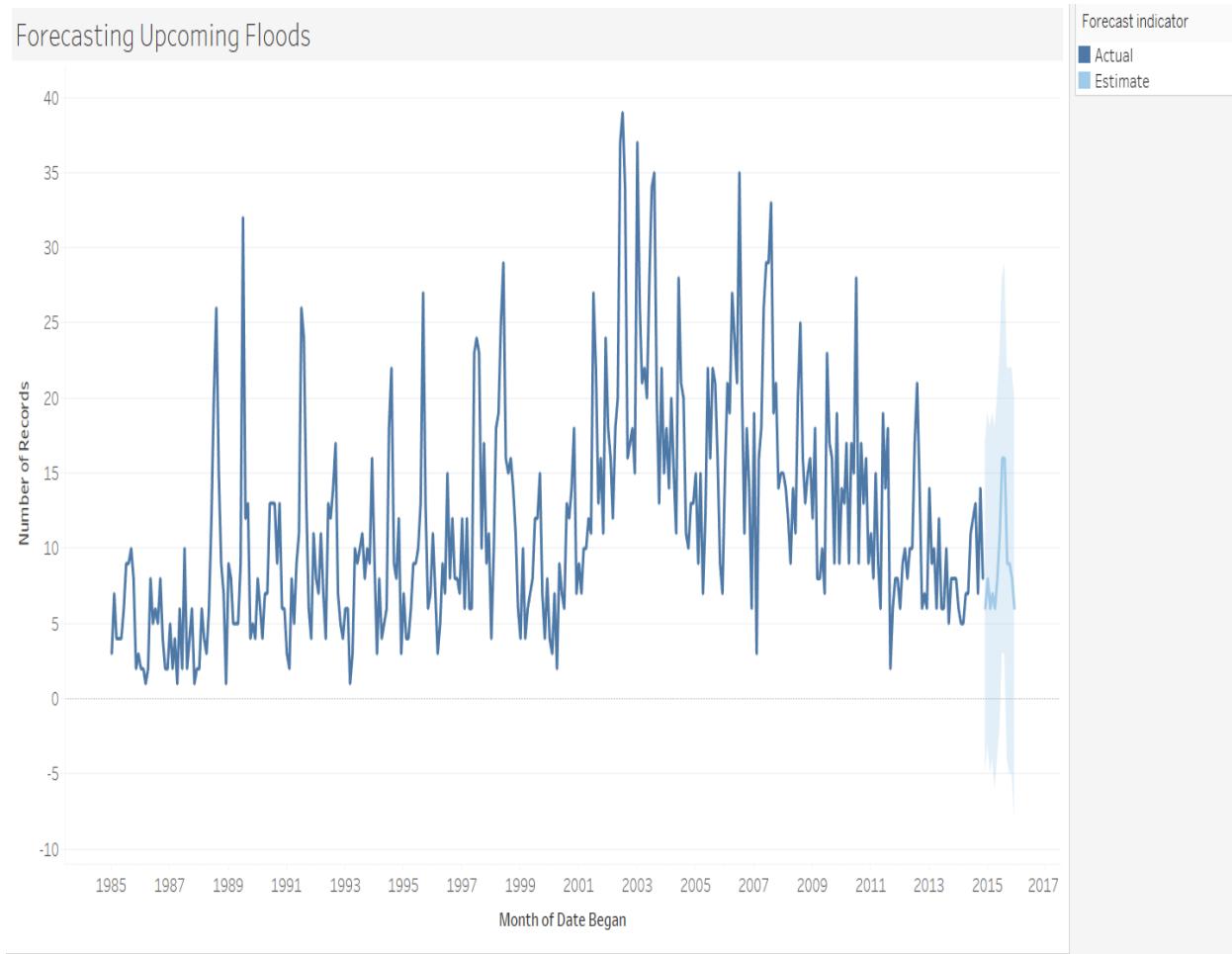


Performing Cluster Analysis

Endorsements vs Salary/Winnings



Visualizing a Forecast



Performing Linear Regression with R (you can skip this one as it requires installing R)

It required R (Skipped)

Chapter 7 – Data Preparation
Using the Data Interpreter and Pivot

Difficult chapter, couldn't figure it out

Using the Legacy Jet Driver

Difficult chapter, couldn't figure it out

Using schema.ini to Resolve Data Type Issues

Difficult chapter, couldn't figure it out

Pivoting Columns

Difficult chapter, couldn't figure it out

Using Union

Difficult chapter, couldn't figure it out

Using Join

Difficult chapter, couldn't figure it out

Using Blend

Difficult chapter, couldn't figure it out