

STAT 140SL

TABLEAU

THE TABLEAU WORKBOOK DASHBOARD

WHAT IS TABLEAU?

Connect

To a File

- Microsoft Excel
- Text file
- JSON file
- PDF file
- Spatial file
- Statistical file
- More...

To a Server

- Tableau Server
- Microsoft SQL Server
- MySQL
- Oracle
- Amazon Redshift
- More...

Saved Data Sources

- Sample - Superstore
- World Indicators

Open

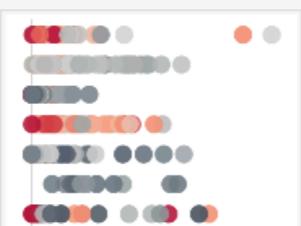
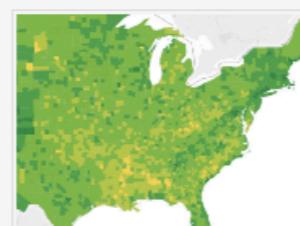
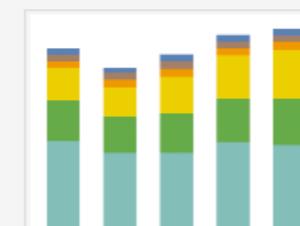
[Open a Workbook](#)

Discover

- Training
 - Getting Started
 - Connecting to Data
 - Visual Analytics
 - Understanding Tableau
 - More training videos...
- Sharing
 - Learn more about ways to share
- Resources
 - Blog - Tableau congratulates the 2018 Zen Masters and announces Zen Master Hall of Fame
 - Tableau Conference - Register Now
 - Forums

Sample Workbooks

[More Samples](#)

-  Superstore
-  Regional
-  World Indicators

VIZ OF THE WEEK



TABLEAU IS

- a data viz package which offers easy connections to nearly any data source (e.g., RData, MySQL, Excel, cloud databases) and it allows easy and sophisticated creation of graphics.
- so easy to use, what might take hours or days in R is just minutes in Tableau.
- organized as workbooks using worksheets, similar to Excel, but also offers dashboards and stories

FIRST STEPS

FIRST STEPS - CONNECT TO A FILE

YOU MUST START WITH DATA

The screenshot shows the Tableau desktop application interface. The top menu bar includes Apple, Tableau, File, Data, Server, and Help. The status bar at the bottom right shows battery level (82%), signal strength, and the date/time (Fri 23:04 VL).

Connect pane (left):

- To a File:
 - Microsoft Excel
 - Text file
 - JSON file
 - PDF file
 - Spatial file
 - Statistical file
 - More...
- To a Server:
 - Tableau Server
 - Oracle
 - Amazon Redshift
 - Google Sheets
 - MySQL
 - More...
- Saved Data Sources
- Sample - Superstore
- World Indicators

Discover pane (right):

- Training
 - Getting Started
 - Connecting to Data
 - Visual Analytics
 - Understanding Tableau
 - More training videos...
- Sharing
 - Learn more about ways to share
- Resources
 - Blog - Tableau congratulates the 2018 Zen Masters and announces Zen Master Hall of Fame
- Tableau Conference - Register Now

Main Area:

- DATA** folder selected.
- File List:** A table showing files in the DATA folder, sorted by Date Modified.

Name	Date Modified	Size
DataFest2017	Today, 17:16	--
City_Budget_Expenditures.csv	Feb 3, 2018, 17:42	4.2 MB
City_Employee_Payroll.csv	Feb 3, 2018, 17:36	99.1 MB
LA_County_Employee_Salaries.csv	Feb 3, 2018, 17:35	80.6 MB
eCheckbook_Data (1).csv	Feb 3, 2018, 17:32	2.68 GB
medicaputptxorr.xls	Jan 30, 2018, 11:58	2.2 MB
train.csv	Jan 29, 2018, 11:54	76.8 MB
test.csv	Jan 29, 2018, 11:54	51.1 MB
discussion4.csv	Jan 29, 2018, 11:41	38 MB
Placekick.csv	Jan 28, 2018, 14:10	36 KB
Parking_Citations.csv	Jan 28, 2018, 00:18	495.6 MB
2016_Registered_Foreclosure_Properties.csv	Jan 28, 2018, 00:14	2.1 MB
cell_towers.csv.gz	Jan 28, 2018, 00:11	741.7 MB
Traffic_Collision_Data_from_2010_to_Present.csv	Jan 28, 2018, 00:07	79.4 MB
2017_Registered_Foreclosure_Properties (1).csv	Jan 28, 2018, 00:07	1.5 MB
MO_CODES_numerical_order_.pdf	Jan 28, 2018, 00:06	218 KB
graffiti-annual-survey.csv	Jan 28, 2018, 00:01	857 bytes
top-traffic-sources-30-days.csv	Jan 28, 2018, 00:01	2 KB
Scope Research Data (Sample).csv	Jan 27, 2018, 23:59	2 KB
NIBRS IEPD 4_0	Jan 27, 2018, 23:48	--
NIBRSIEPD.zip	Jan 27, 2018, 23:47	418 KB
citCh9.xlsx	Jan 27, 2018, 23:47	33 KB
appendixB.xls	Jan 27, 2018, 23:44	75 KB
SchoolDataProfile.xls	Jan 27, 2018, 23:41	59 KB
GUDID Data Elements Reference Table_3-27-17.xls	Jan 27, 2018, 23:40	312 KB
wagesmicrodata.xls	Jan 27, 2018, 23:40	78 KB
Data_Dictionary (1).xls	Jan 27, 2018, 23:37	99 KB
2016_SFNationalFileA2016	Jan 27, 2018, 23:35	--
- File Type Filter:** A dropdown menu showing file types:
 - ✓ Other Files (*.twb *.twbx *.tbm *.tds *.tdsx *.tde *.hyper *.xls *.xlsx *.xlsm *.csv *.txt *.tab *.tsv *.sas7bdat *.sav *.rda *.rdata *.json *.pdf *.kml *.mif *.shp *.geojson)
 - Tableau Workbooks (*.twb)
 - Tableau Packaged Workbooks (*.twbx)
 - Tableau Data Sources (*.tds)
 - Tableau Packaged Data Sources (*.tdsx)
 - Tableau Data Extracts (*.hyper *.tde)
 - Excel Workbooks (*.xls *.xlsx *.xlsm)
 - Character Delimited Files (*.csv)
 - Text Files (*.txt)
 - Adobe Portable Document Format (*.pdf)
 - Statistical Files (*.sav *.sas7bdat *.rda *.rdata)
 - Tab Delimited Files (*.tab *.tsv)
 - Spatial Files (*.kml *.shp *.tab *.mif *.geojson)
 - JSON Files (*.json)
- Sample Workbooks:** A small preview section showing sample workbooks.

FIRST STEPS - OR CONNECT TO A SERVER

YOU MUST START WITH DATA

Connect

To a File

Microsoft Excel

Text file

JSON file

PDF file

Spatial file

Statistical file

More...

To a Server

Tableau Server

Oracle

Amazon Redshift

Google Sheets

MySQL

More... >

Saved Data Sources

Sample - Superstore

World Indicators

Search

Tableau Server

PostgreSQL

Amazon Athena

Presto

Amazon Aurora

QuickBooks Online

Amazon EMR

Salesforce

Amazon Redshift

SAP HANA

Anaplan

ServiceNow ITSM

Apache Drill

SharePoint Lists

Aster Database

Snowflake

Box

Spark SQL

Cloudera Hadoop

Teradata

Denodo

Web Data Connector

Dropbox

EXASOL

Other Databases (ODBC)

Firebird

Google Analytics

Google BigQuery

Google Cloud SQL

Google Sheets

Hortonworks Hadoop Hive

HP Vertica

Kognitio

MapR Hadoop Hive

Marketo

MemSQL

Microsoft SQL Server

MongoDB BI Connector

MySQL

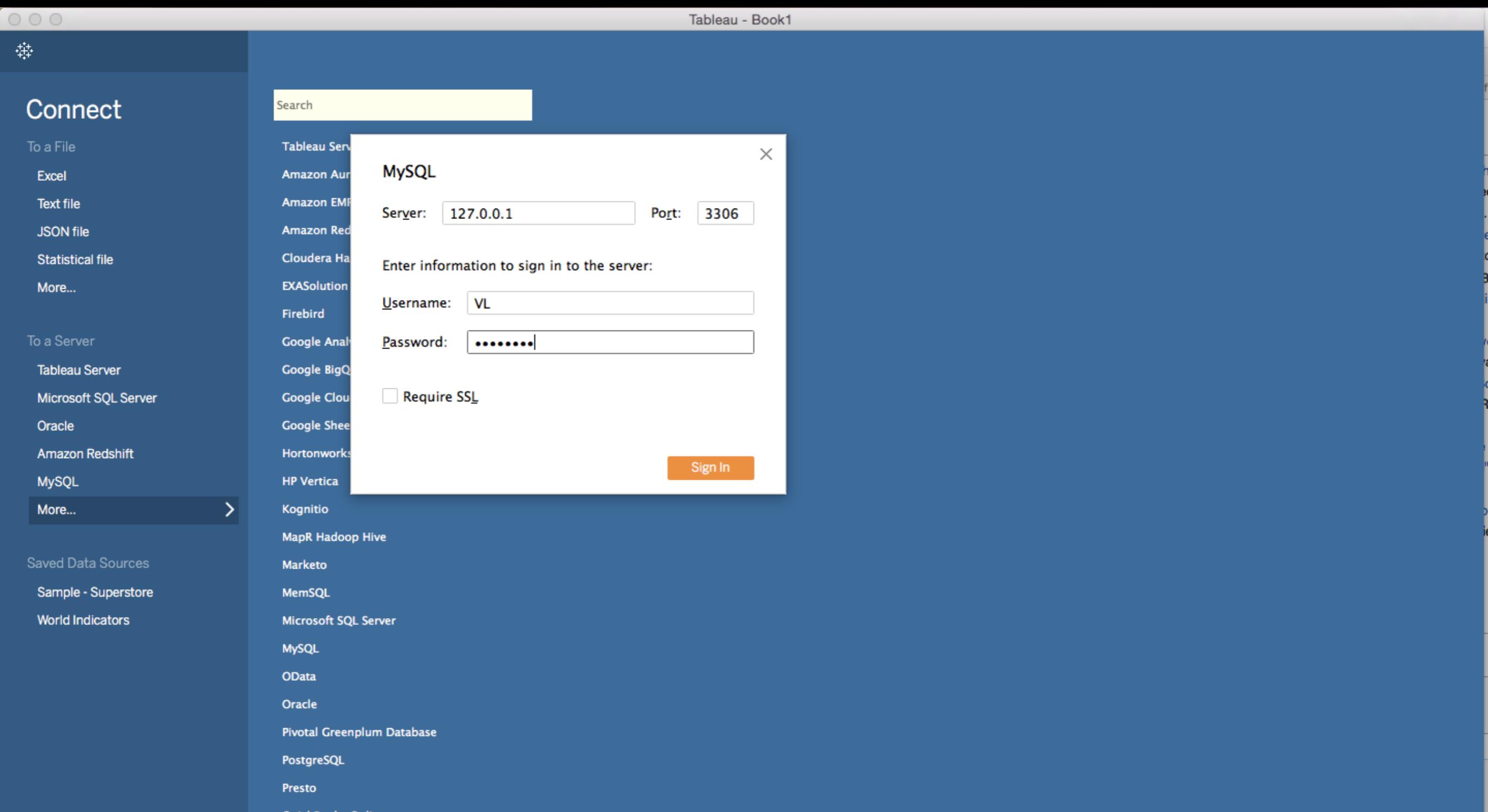
OData

OneDrive

Oracle

Oracle Eloqua

FIRST STEPS - EXAMPLE USING MYSQL CONNECTING TO A SERVER



FIRST STEPS - EXAMPLE USING MYSQL

RESULT - MYSQL DATABASES

The screenshot shows the Tableau software interface. At the top, the menu bar includes Tableau, File, Data, Server, Window, Help, and system status indicators. The title bar reads "Tableau - Book1". On the left, the "Connections" pane shows a single entry: "127.0.0.1 MySQL". Below it, the "Database" pane has a dropdown menu titled "Select Database" with options: "Enter database name", "information_schema", and "junk", where "junk" is currently selected. The main workspace is empty, indicating no data has been loaded. At the bottom, there are buttons for "Sort fields", "Data source order", and checkboxes for "Show aliases" and "Show hidden fields", along with a row limit input field set to 10000.

FIRST STEPS - MYSQL YELP DATA

RESULT - TABLES WITHIN JUNK

The screenshot shows the Tableau Data Source interface. The title bar reads "Tableau - Book1". On the left, the "Connections" panel shows a single MySQL connection to "127.0.0.1". The "Database" dropdown is set to "junk". The "Table" list on the left includes "business", "checkin", "review", "tip", and "user". The main workspace shows the "junk" database with a large orange border. Inside, there is a single table named "business". A placeholder text "Drag tables here" is visible in the workspace. At the bottom right of the workspace are buttons for "Sort fields", "Data source order", "Show aliases", "Show hidden fields", and a row limit of "10000".

FIRST STEPS - MYSQL YELP DATA

RESULT - INSTANT READ

Tableau File Data Server Window Help Fri 9:28 PM

Tableau - Book1

business (junk)

Connections Add
127.0.0.1 MySQL

Database junk

Table business checkin review tip user

New Custom SQL

Sort fields Data source order Show aliases Show hidden fields 1,000 rows

Business ID	Categories	City	Latitude	Longitude	Name	Review	Stars	State
--0ZoBTQWQra1FxD4...	['Property Management']	Phoenix	33.5108	-112.019	Bourquin Residential...	4	2.00000	AZ
--1emggGHgoG6ipd...	['Food', 'Convenience Store']	Las Vegas	36.1305	-115.207	Sinclair	4	4.00000	NV
--4Pe8BZ6gj57VFL5...	['Shopping', 'Office Equipment']	Phoenix	33.6764	-111.974	Office Max	9	3.00000	AZ
--5jkZ3-nUPZxUvtcb...	['Greek', 'Vegetarian']	Scottsdale	33.4634	-111.927	Mika's Greek	127	4.50000	AZ
--7PRjnsjMA6uhPK8...	['Bars', 'Nightlife']	Pittsburgh	40.3719	-80.009	Castle Tavern	3	2.50000	PA
--AKjxBmhm9DWrh-e...	['Restaurants', 'Italian']	Laval	45.5725	-73.720	Grigio	6	4.50000	QC
--BlvDO_RG2yElKu9...	['Sushi Bars', 'Hawaiian']	Scottsdale	33.6216	-111.899	Asian Island	122	4.00000	AZ
--DI2rW_xO8GuYBo...	['Medical Centers', 'Pharmacies']	Las Vegas	36.1109	-115.142	UNLV Student Health...	7	4.50000	NV
--jFTZmywe7StuZ2h...	['Fast Food', 'Sandwiches']	Las Vegas	36.1188	-115.182	Subway	8	3.50000	NV
--LzU4UT9rysIDXbho...	['Hair Salons', 'Day Spas']	Pittsburgh	40.4275	-79.988	Lunasea Salon+Day Spa	10	4.50000	PA

FIRST STEPS - GOOGLE SHEETS

RESULT - GOOGLE SHEETS

Connect

To a File

- Tableau Server
- Amazon Athena
- Text file
- JSON file
- PDF file
- Spatial file
- Statistical file
- More...

To a Server

- Tableau Server
- Oracle
- Amazon Redshift
- Google Sheets
- MySQL
- More... >

Saved Data Sources

- Sample - Superstore
- World Indicators

Search

PostgreSQL
Presto
QuickBooks Online
Salesforce
SAP HANA
ServiceNow ITSM
SharePoint Lists
Snowflake
Spark SQL
Teradata
Web Data Connector
Other Databases (ODBC)

Select Your Google Sheet

Signed in as view@g.ucla.edu [Sign Out](#)

Search by sheet name or enter URL Search

Name	Owned by	Last Opened By Me
Oscars.xls	VIVIAN LEW	Oct 7, 2017
DATAFEST.xlsx	VIVIAN LEW	Oct 7, 2017
Mcdonalds_USA.xls	VIVIAN LEW	Oct 7, 2017
codebook_final_v3.xlsx	VIVIAN LEW	Oct 7, 2017
CollegeAddresses.xls	VIVIAN LEW	Oct 7, 2017
walmart.xls	VIVIAN LEW	Oct 7, 2017
OEM Page Subcategory.xlsx	VIVIAN LEW	Oct 7, 2017
DF2015 Data Dictionary.xlsx	VIVIAN LEW	Oct 7, 2017
SFPD2003.xls	VIVIAN LEW	Oct 4, 2017
OEM Page Subcategory.xlsx	VIVIAN LEW	Oct 4, 2017
DF2015 Data Dictionary.xlsx	VIVIAN LEW	Oct 4, 2017
Oscars.xls	VIVIAN LEW	Oct 4, 2017
uctuition1980-2017.xlsx	VIVIAN LEW	Oct 4, 2017
walmart.xls	VIVIAN LEW	Oct 4, 2017
uctuition1980-2017.xlsx	VIVIAN LEW	Oct 4, 2017

Mcdonalds_USA.xls
Last Modified On Oct 7, 2017
Last Modified By VIVIAN LEW
[Open in Google Drive](#)

FIRST STEPS - GOOGLE SHEETS

RESULT - GOOGLE SHEETS

The screenshot shows the Tableau desktop application interface. The top menu bar includes Apple, Tableau, File, Data, Server, Window, Help, and various system status icons. The title bar reads "Tableau - Book1". On the left, the Connections pane shows a single connection named "McDonalds_USA.xls" from Google Sheets, which is selected. The Sheets pane lists two sheets: "McDonalds_USA_CAN" and "New Union". The main workspace displays a data preview for the "McDonalds_USA_CAN" sheet. The preview header includes columns: "Longitude", "Latitude", "Store", and "Address". Below the header, 15 rows of data are shown, each containing a coordinate pair and a store address. The bottom right corner of the preview area shows options to "Show aliases", "Show hidden fields", and a row count of "1,000".

Longitude	Latitude	Store	Address
-149.8683	61.1401	McDonalds [WM]-An...	8900 Old Seward Hw...
-149.8811	61.1924	McDonalds [WM]-An...	3101 A St [WM], Anc...
-149.8986	61.1948	McDonalds-Anchora...	800 W Northern Ligh...
-149.8706	61.1883	McDonalds-Anchora...	701 E 36th Ave, Anch...
-149.8632	61.1399	McDonalds-Anchora...	8915 Old Seward Hw...
-149.8580	61.1084	McDonalds-Anchora...	1320 Huffman Rd, An...
-149.8323	61.1812	McDonalds-Anchora...	2601 E Tudor Rd, Anc...
-149.8236	61.2194	McDonalds-Anchora...	3006 Mountain View ...
-149.7751	61.2094	McDonalds-Anchora...	5716 Debarr Rd, Anc...
-149.7327	61.2214	McDonalds-Anchora...	255 Muldoon Rd, Anc...
-149.9800	61.1730	McDonalds-Anchora...	5000 W Internationa...
-149.9508	61.1371	McDonalds PlayPlace...	3828 W Dimond Blvd...
149.9268	61.1815	McDonalds PlayPlace...	4250 Speer Rd, An...

NOTES

- If you like pointing and clicking with SPSS you will like using Tableau
- Upsides — easy, quick, attractive, efficient memory and resource use.
- Downsides — a few limitations related to flexibility and customization, really messy data should be pre-processed outside of Tableau so it's not a complete replacement for something like R.

QUICK START USING IRIS

THE FAMOUS IRIS READING CSV FILES

Connect

To a File

- Excel
- Text file**
- JSON file
- Statistical file
- More...

To a Server

- Tableau Server
- Microsoft SQL Server
- Oracle
- Amazon Redshift
- MySQL
- More...

Saved Data Sources

- Sample - Superstore
- World Indicators

Open

DATA

Search

Name	Date Modified
ICPSR_2T741	Jan 30, 2016, 6:41 P
ICPSR_36179	Jan 30, 2016, 6:46 P
in_n_out.csv	Aug 15, 2012, 10:46
intMS.csv	Nov 12, 2014, 1:16 P
Iris.csv	Oct 13, 2016, 10:04
irsCA2013.csv	Nov 21, 2015, 4:04 P
irsCAzip2013.csv	Nov 21, 2015, 4:06 P
jobs.csv	Jul 13, 2016, 8:31 A
KKK.rtf	Nov 6, 2015, 1:23 P
LA_SHERIFF_CRIMES_FROM_2004_TO_2014.csv	Apr 21, 2015, 6:23 P
LACITY.RData	Jul 29, 2015, 2:25 A
LACITY4.RData	Oct 28, 2015, 1:23 A
LACoFD_-_Point_Map_for_Accidents_for_2004_-_2014.csv	Aug 27, 2016, 9:33 A
LACOUNTYSCHOOLS.xls	Oct 14, 2014, 11:41
LADOT_Traffic_Counts_Summary.csv	May 29, 2014, 8:07 P
LAFD_BUILDINGS.xls	Nov 2, 2015, 6:40 P
lahman-csv_2014-02-14	Feb 13, 2015, 1:38 A
lahman-sql_2014-08-13	Nov 18, 2015, 1:03 P

Character Delimited Files (*.csv)

New Folder Cancel Open

Sample Workbooks

- Superstore
- Regional
- World Indicators

More Samples

Discover

Training

- Getting Started
- Connecting to Data
- Visual Analytics
- Understanding Tableau

More training videos...

VIZ OF THE WEEK

Inclusive Cities, Shared Development

Resources

- Blog - 3 tips for the non-traditional Tableau analyst
- Tableau Conference 2016
- Forums

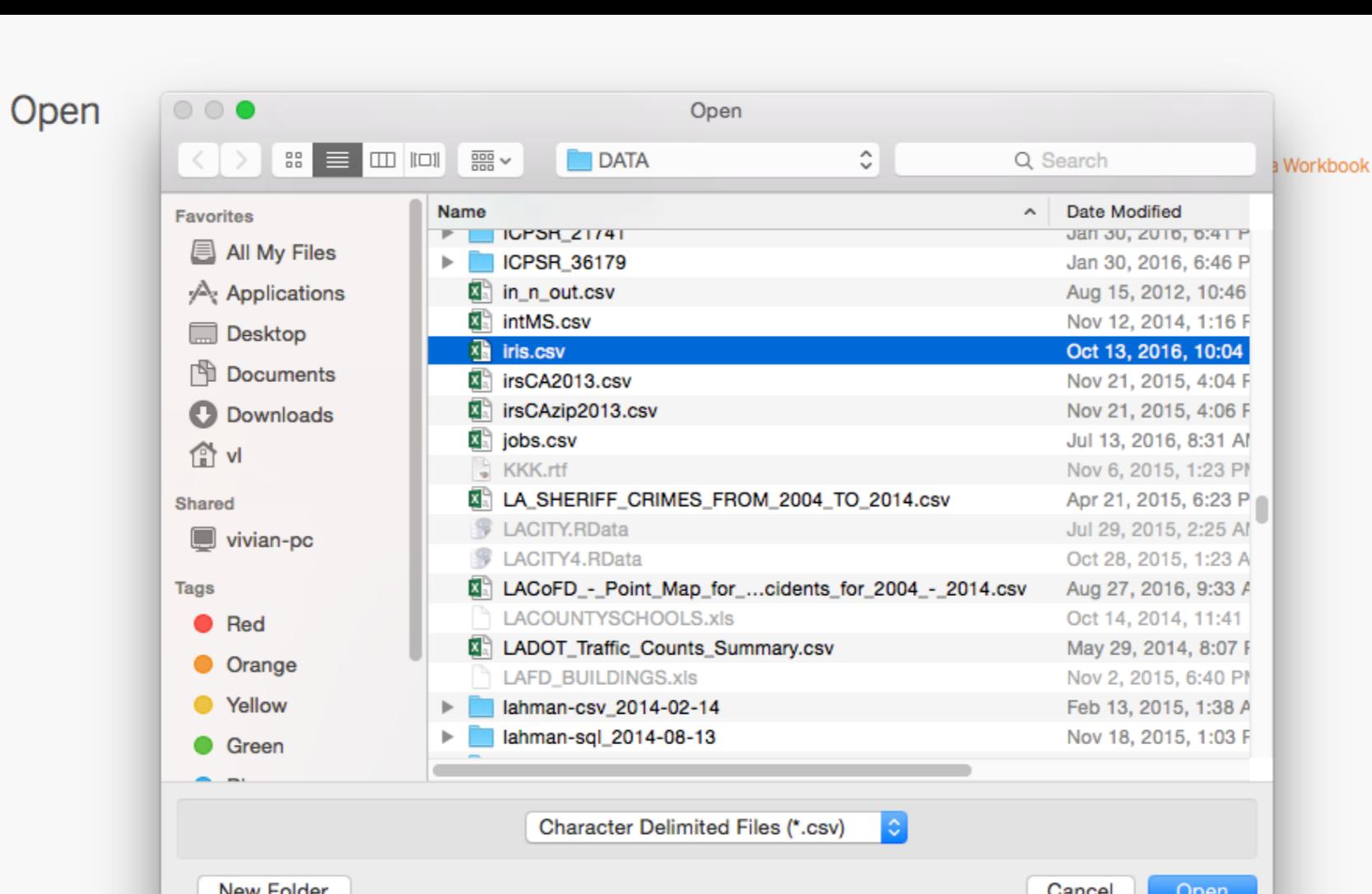


TABLEAU READS EVERY CSV FILE IN THE DIRECTORY

DISPLAYS THE DATA

The screenshot shows the Tableau interface with the following details:

- Connections:** A connection named "iris" (Text File) is selected.
- Files:** A list of CSV files is shown, with a red oval highlighting the first few entries:
 - 13zpallagi.csv
 - 13zpallnoagi.csv
 - 2008.csv
 - 2010-counties.csv
 - 2011-counties.csv
 - 2011-pensions.csv
 - 2011-univer...-system.csv
 - 2012-counties.csv
 - 2012-pensions.csv
 - 2012-univer...-system.csv
 - 2013-cities.csv
 - 2013-counties.csv
 - 2013-pensions.csv
 - 2013-univer...-system.csv
 - 2013_State..._2012.csv
 - 2014-pensions.csv
 - 2014-univer...-system.csv
 - 2014_Regist...parties.csv
 - 2015HMDAIn...ecords.txt
 - 2016_Regist...parties.csv
 - 2017_Registe...ties (1).csv
 - 263060200355487.tab
 - 311_Service...plaints.csv
 - 311_Service...Present.csv
 - age_gender_bkts.csv
 - Airplane_Cr...ce_1908.csv
 - airport.csv
- IRIS:** A specific connection named "IRIS" is selected, showing the "iris.csv" file.
- Data Preview:** The first 150 rows of the "iris.csv" file are displayed in a grid format. The columns are labeled:
 - #
 - iris.csv
 - iris.csv
 - iris.csv
 - iris.csv
 - Species
 - Sepal.Length
 - Sepal.Width
 - Petal.Length
 - Petal.Width
 - Abc
 - iris.csvThe data shows the following rows:

#	iris.csv	iris.csv	iris.csv	iris.csv	Species	Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Abc	iris.csv
1	5.10000	3.50000	1.40000	0.20000	setosa						
2	4.90000	3.00000	1.40000	0.20000	setosa						
3	4.70000	3.20000	1.30000	0.20000	setosa						
4	4.60000	3.10000	1.50000	0.20000	setosa						
5	5.00000	3.60000	1.40000	0.20000	setosa						
6	5.40000	3.90000	1.70000	0.40000	setosa						
7	4.60000	3.40000	1.40000	0.30000	setosa						
8	5.00000	3.40000	1.50000	0.20000	setosa						
9	4.40000	2.90000	1.40000	0.20000	setosa						
10	4.90000	3.10000	1.50000	0.10000	setosa						
11	5.40000	3.70000	1.50000	0.20000	setosa						
12	4.80000	3.40000	1.60000	0.20000	setosa						
13	4.80000	3.00000	1.40000	0.10000	setosa						
14	4.30000	3.00000	1.10000	0.10000	setosa						
15	5.80000	4.00000	1.20000	0.20000	setosa						
- Filters:** 0 | Add

THE WORKSHEET

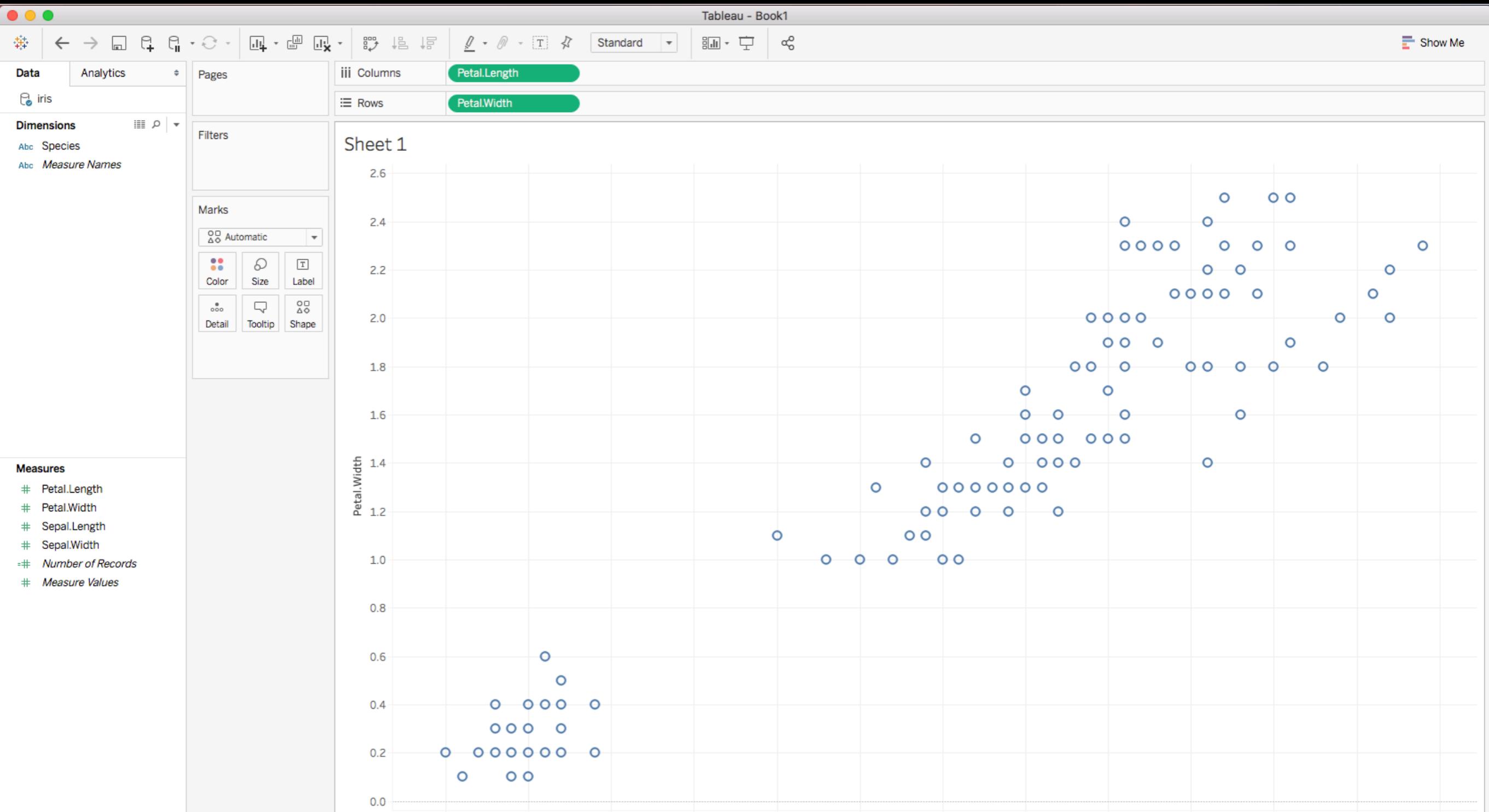
EXAMINE THE FIRST WORKSHEET

The screenshot shows the Tableau interface with the following elements:

- Top Bar:** Tableau, File, Data, Worksheet, Dashboard, Story, Analysis, Map, Format, Server, Window, Help.
- Toolbar:** Standard.
- Left Panel (Data Source):** Data (Analytics), Pages, Dimensions (Species, Measure Names), Filters, Marks (Automatic, Color, Size, Text, Detail, Tooltip), Measures (Petal.Length, Petal.Width, Sepal.Length, Sepal.Width, Number of Records, Measure Values).
- Sheet 1:** A blank workspace with three "Drop field here" placeholder boxes.
- Right Panel (Show Me):** A grid of visualization preview icons. A red oval highlights this panel.
- Bottom Navigation:** Data Source, Sheet 1, and other navigation icons. The "Sheet 1" tab is circled in red.
- Help Text:** Select or drag data. Use the Shift or Cmd key to select multiple fields.

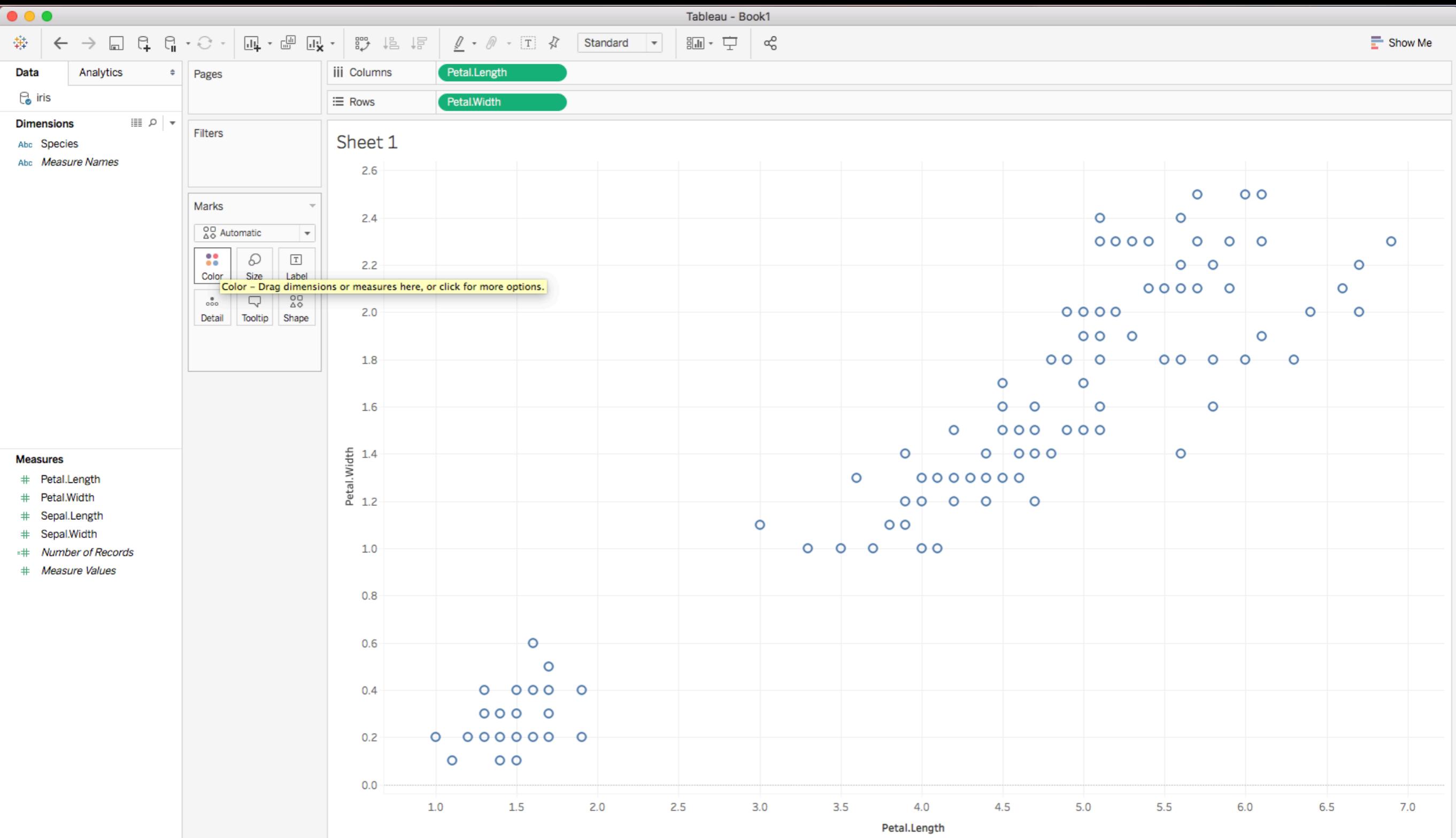
DRAG MEASURES (NUMERIC) OR DIMENSIONS

CREATING A GRAPHIC



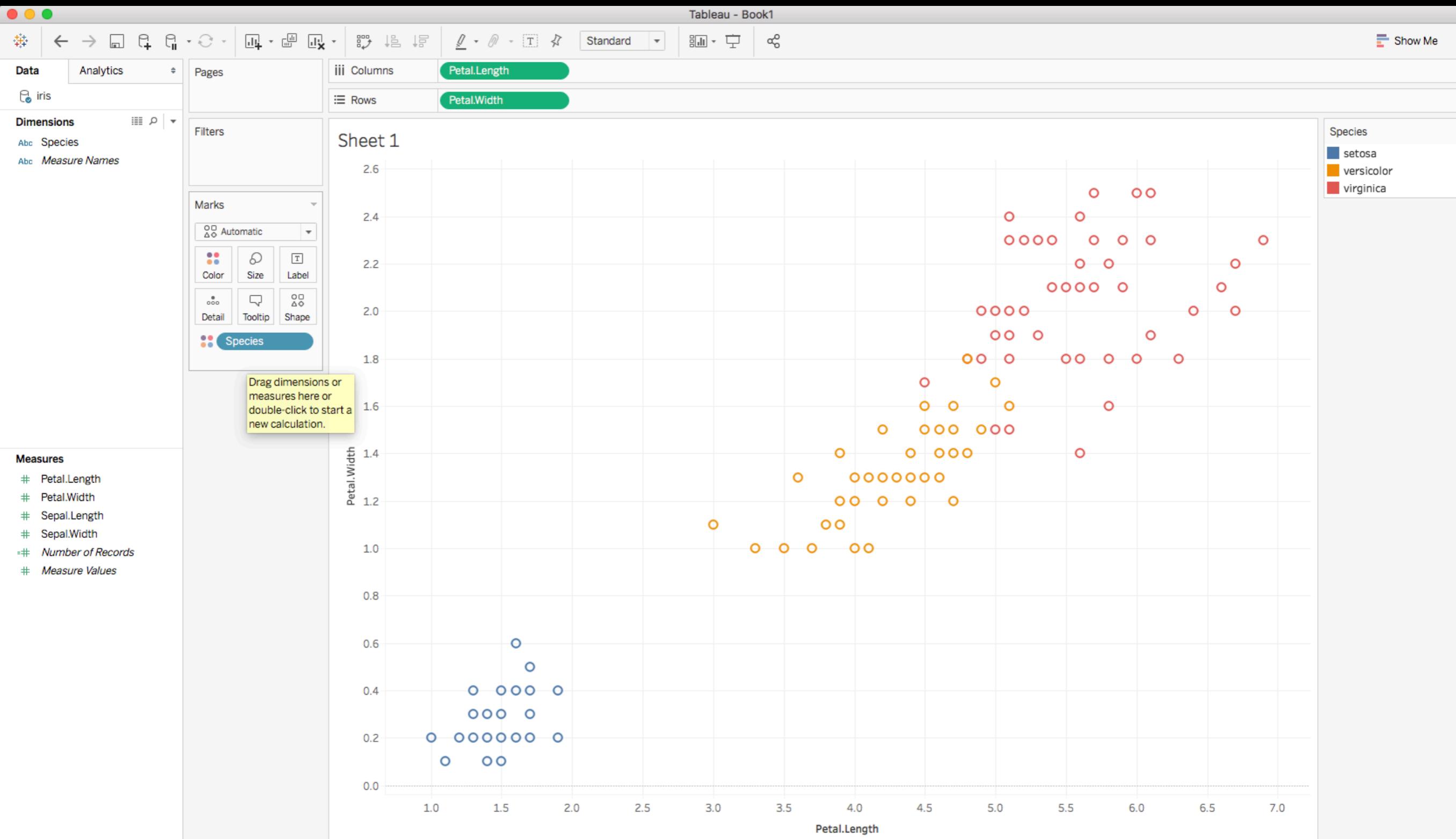
DRAG MEASURES (NUMERIC) OR DIMENSIONS

ADD A DIMENSION

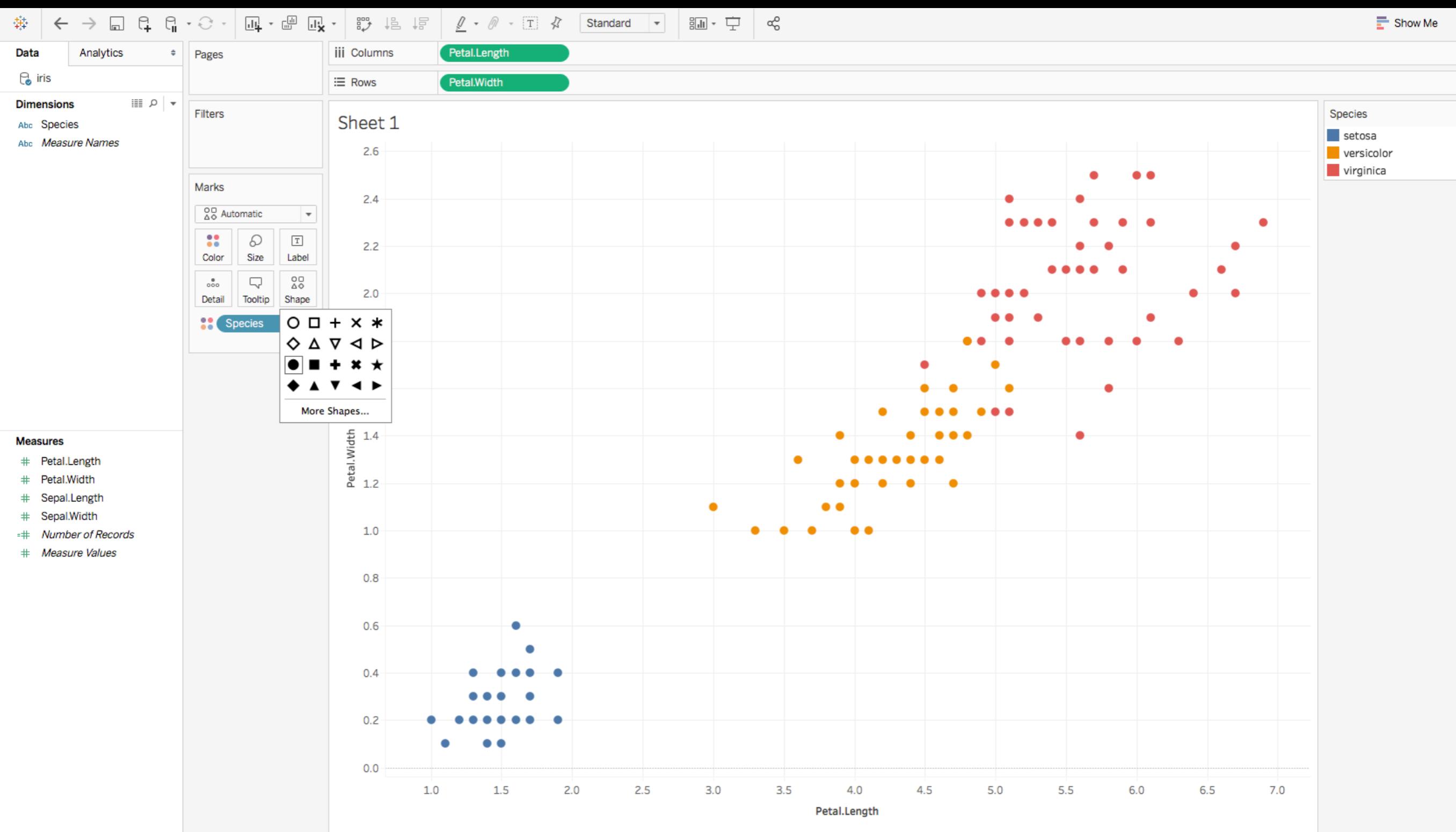


ADDING A THIRD VARIABLE (DRAG AND DROP)

COLOR BY SPECIES



ADDING A THIRD VARIABLE - MODIFICATIONS SHAPE



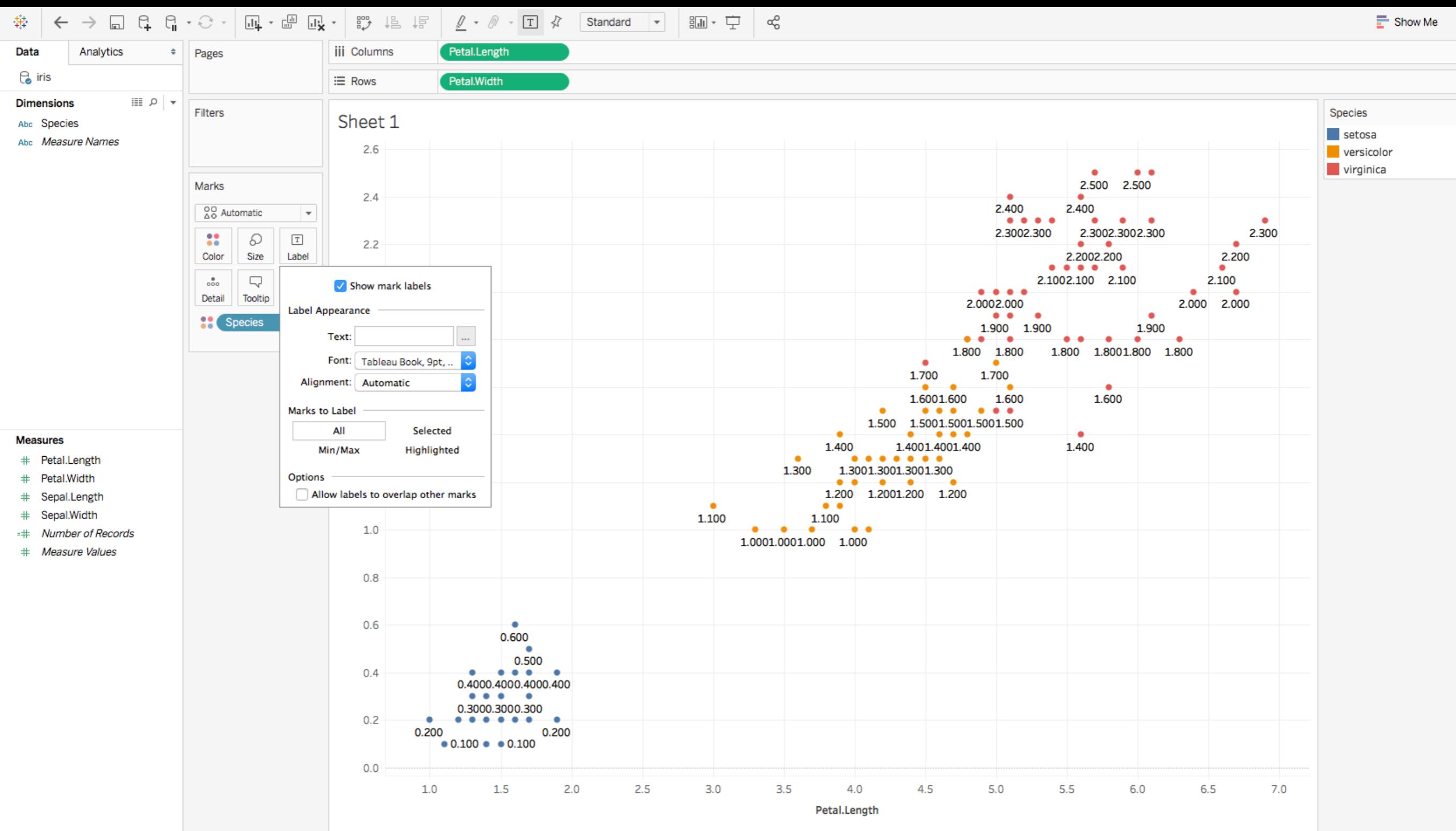
ADDING A THIRD VARIABLE - MODIFICATIONS

SIZE



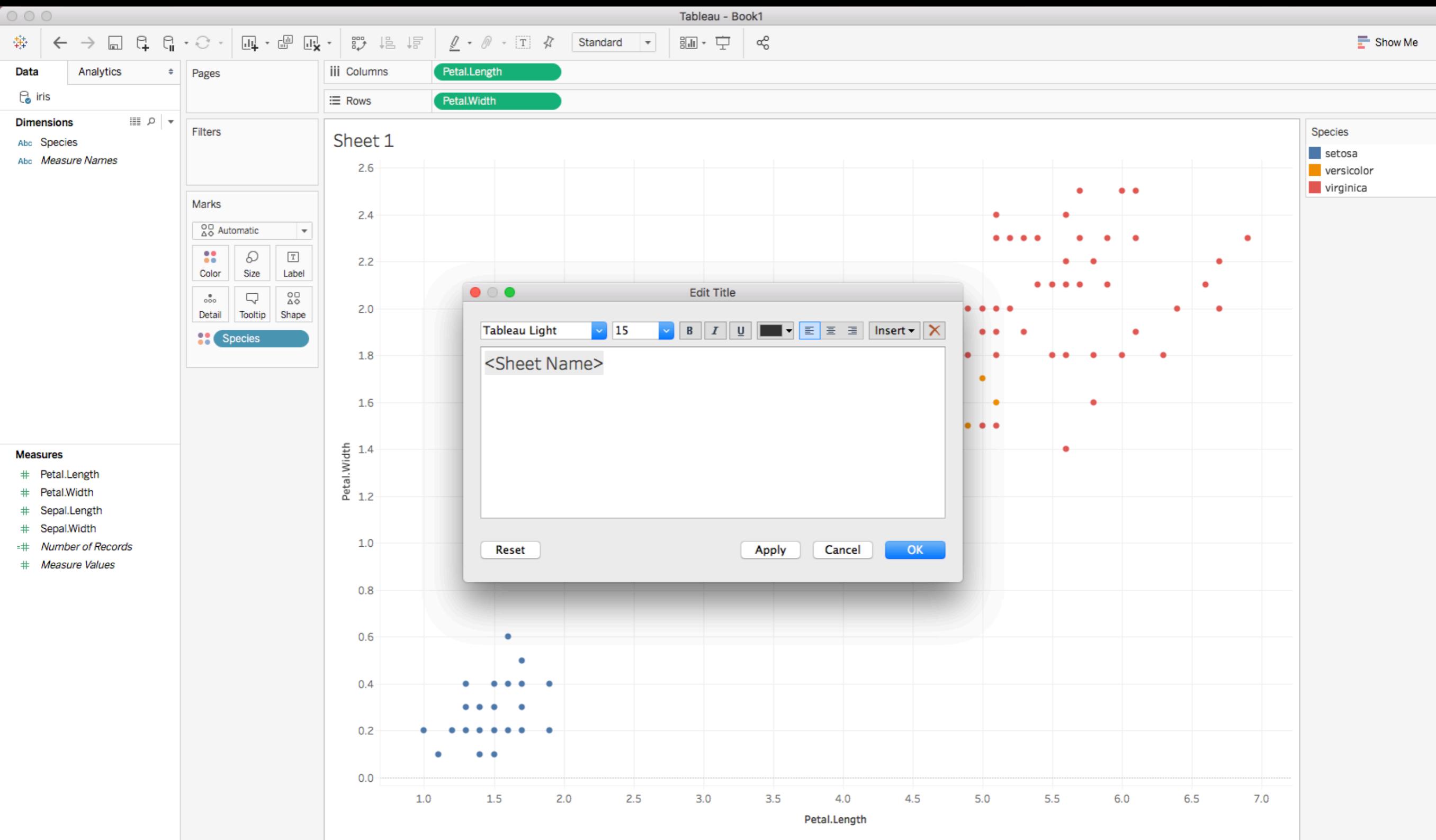
ADDING A THIRD VARIABLE - MODIFICATIONS

LABELING POINTS



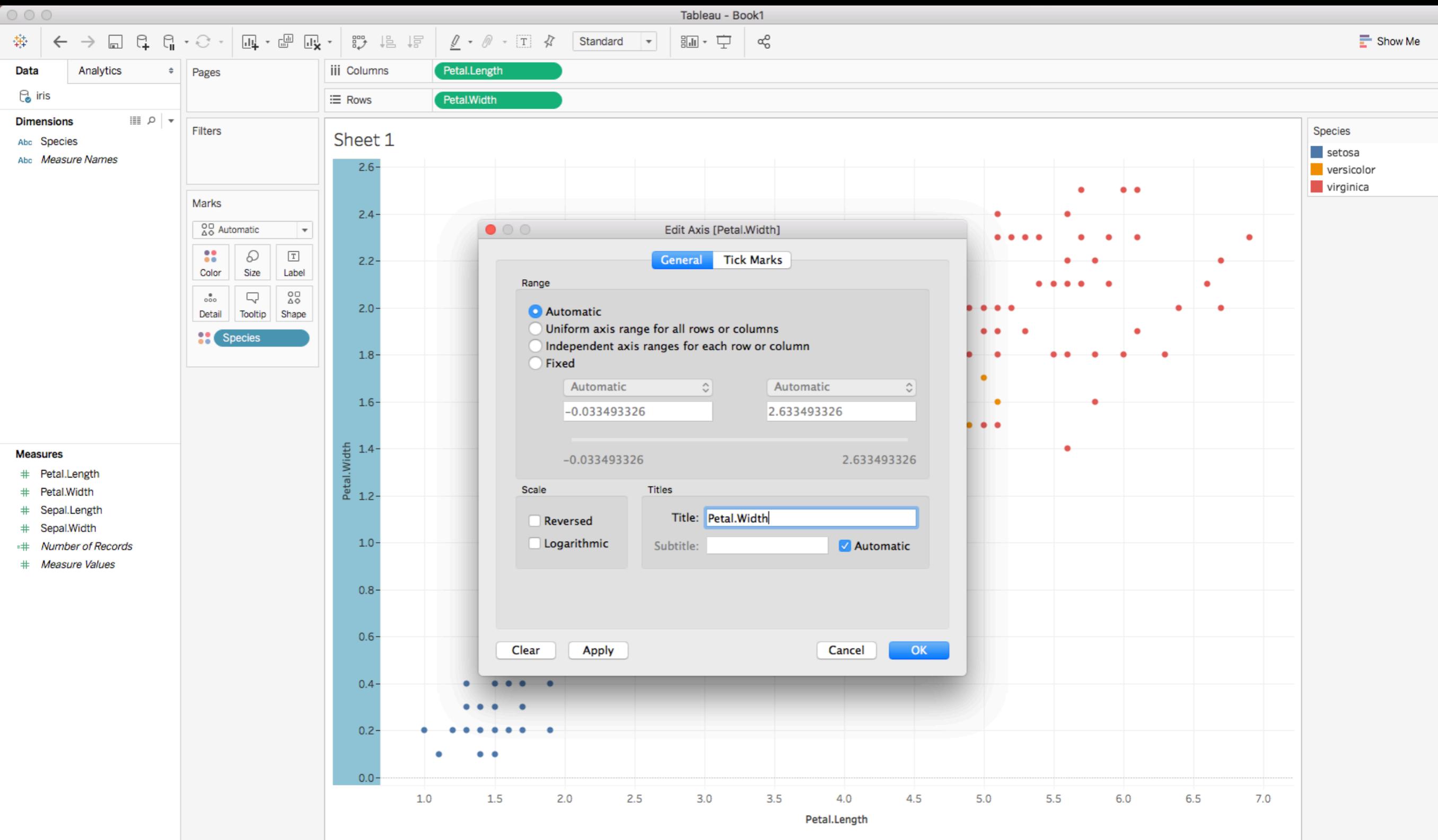
ANNOTATING - MAIN TITLE EXAMPLE

CLICK TO MODIFY TITLE



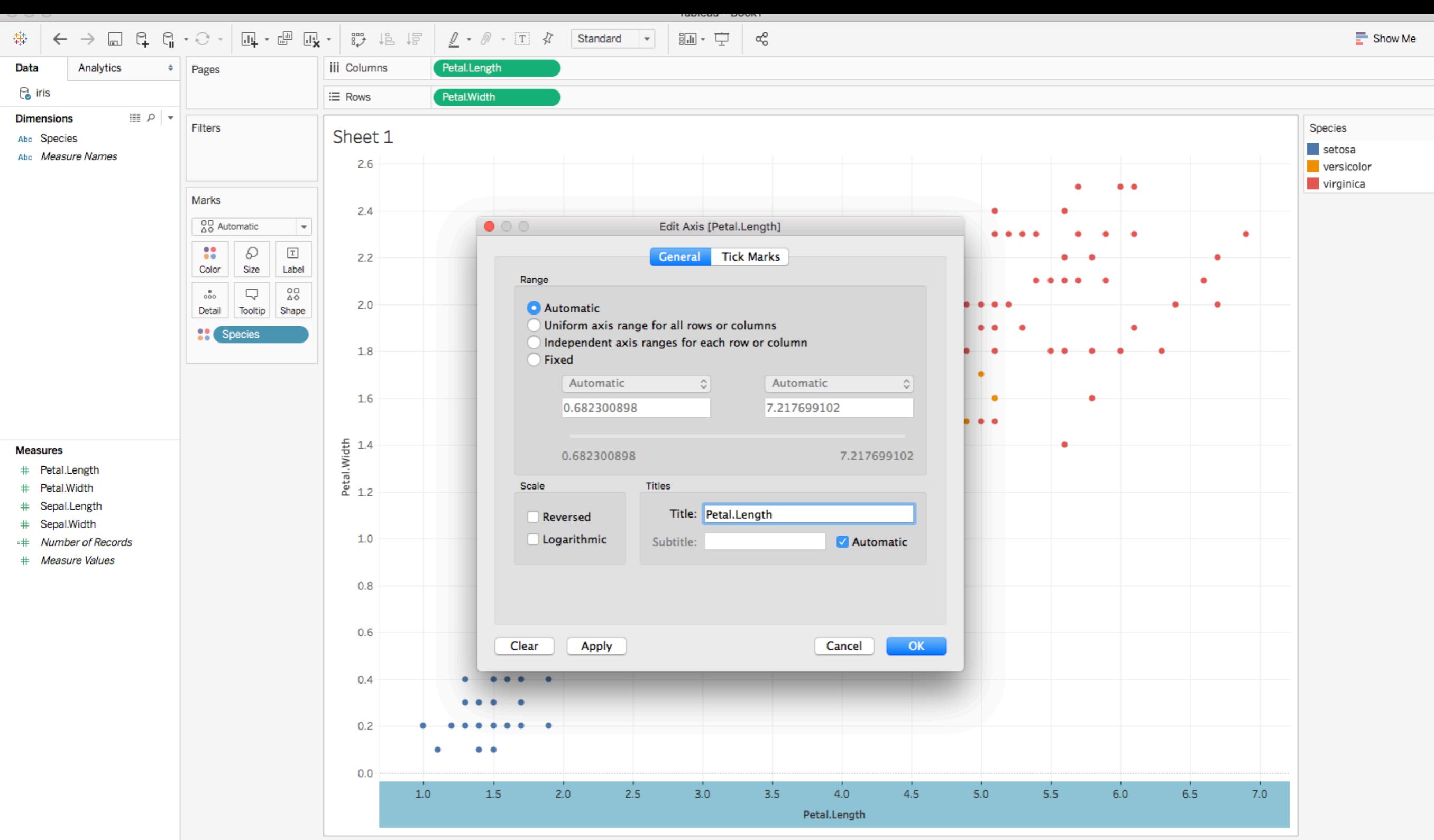
ANNOTATING - MAIN TITLE EXAMPLE

CLICK TO MODIFY AXES



ANNOTATING - MAIN TITLE EXAMPLE

CLICK TO MODIFY AXES



SHOW ME - PULL DOWN AND CLICK - BOXPLOT

CHANGE GRAPH TYPE

Tableau - Book1

Scatter Plot of Petal Length and Petal Width

Species

Petal.Length

Petal.Width

For box-and-whisker plots try
0 or more Dimensions
1 or more Measures
Use at least 1 dimension or
disaggregate

Detailed description: The screenshot shows the Tableau desktop application. In the top navigation bar, 'Tableau' is selected. The main workspace contains a scatter plot titled 'Scatter Plot of Petal Length and Petal Width'. The plot area has 'Species' on the horizontal axis and 'Petal.Length' on the vertical axis. Three data series are visible, each representing a different species. A specific box-and-whisker plot is overlaid on the data for the third species, showing the distribution of petal length. The box plot includes a central horizontal line for the median, a box for the interquartile range, and whiskers extending to the minimum and maximum values. Individual data points are shown as small blue dots. The left sidebar shows the data source is 'iris' and the dimensions and measures used in the visualization. The right sidebar features a 'Show Me' feature with various chart types, and a note about creating box-and-whisker plots.

SHOW ME - PULL DOWN AND CLICK - TREE MAP

CHANGE GRAPH TYPE

Tableau - Book1

Scatter Plot of Petal Length and Petal Width

iris

Dimensions: Species, Measure Names

Measures: Petal.Length, Petal.Width, Sepal.Length, Sepal.Width, Number of Records, Measure Values

Marks: Automatic, Color, Size, Label, Detail, Tooltip

For treemaps try 1 or more Dimensions, 1 or 2 Measures

NOTES

- The ease of use makes Tableau ideal for exploring a new dataset.
- Takes a little while to understand all of the options
- Types: Heatmap, Bar/Line/Area Chart, Map, Pie Chart, Treemap, Circle View, Scatterplot, Histogram, Box-and-Whisker, Gantt, Bullet, Packed Bubbles

MINOR DATA HANDLING - SPLITTING A STRING

CUSTOMIZING DATA

Tableau - Book1

Connect

To a File

- Microsoft Excel
- Text file
- JSON file
- PDF file
- Spatial file
- Statistical file
- More...

To a Server

- Tableau Server
- Oracle
- Amazon Redshift
- Google Sheets
- MySQL
- More...

Saved Data Sources

- Sample - Superstore
- World Indicators

Open

Open a Workbook

Select Your Google Sheet

Signed in as vview@g.ucla.edu [Sign Out](#)

https://docs.google.com/spreadsheets/d/1b9o6uD018sLxBqPwl_Gh9bnhW-ev_dABH83M5Vb5L8o/edit#gid=0

Name	Owned by	Last Opened By Me
Mother Jones - Mass Shootings Database, 1982 - 2018	Mark Follman	--



Mother Jones - Mass Shootings Database, 1982 - 2018
Last Modified On Nov 8, 2018
Last Modified By Mark Follman
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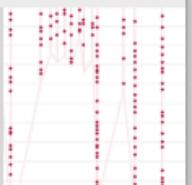
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- Blog - The Density Mark type brings a new kind of heatmap to Tableau
- Forums

VIZ OF THE WEEK



MINOR DATA HANDLING - SPLITTING A STRING

CUSTOMIZING DATA

Tableau - Book1

Connections Add
Mother Jones - e, 1982 - 2018 Google Sheets

Sheets Use Data Interpreter
Data Interpreter might be able to clean your Google Sheets workbook.

Sheet1

New Union

Sort fields Data source order ▾ Show aliases Show hidden fields 106 rows

Abc Sheet1 Case	Abc Sheet1 Location	Abc Sheet1 Date	Abc Sheet1 Summary	# Sheet1 Fatalities	# Sheet1 Injured	# Sheet1 Total Victims	Abc Sheet1 Location 1	# Sheet1 Age Of Shooter	Abc Sheet1 Prior Signs Mental...	Abc Sheet1 Mental Health Det...
Thousand Oaks night...	Thousand Oaks, CA	11/7/2018	Ian David Long, 28, d...	12	22	34	Other	28	Yes	Per the LATimes: "Sh...
Tree of Life synagogu...	Pittsburgh, PA	10/27/2018	Robert D. Bowers, 46...	11	6	17	Religious	46	-	-
Rite Aid warehouse s...	Perryman, MD	9/20/2018	Snochia Moseley, 26, ...	3	3	6	Workplace	26	-	-
T&T Trucking shooting	Bakersfield, CA	9/12/2018	Javier Casarez, 54, w...	5	0	5	Workplace	54	-	-
Fifth Third Center sh...	Cincinnati, OH	9/6/2018	Omar Enrique Santa ...	3	2	5	Workplace	29	Yes	Perez filed a "delusio...
Capital Gazette shoo...	Annapolis, MD	6/28/2018	Jarrod W. Ramos, 38,...	5	2	7	Workplace	38	-	-
Santa Fe High School...	Santa Fe, TX	5/18/2018	Dimitrios Pagourtzis,...	10	13	23	School	17	-	-
Waffle House shooting	Nashville, TN	4/22/2018	Travis Reinking, 29, o...	4	4	8	Other	29	Yes	Reinking had a histor...
Yountville veterans h...	Yountville, CA	3/9/2018	Army veteran Albert ...	3	0	3	Workplace	36	Yes	Wong had served in ...
Marjory Stoneman D...	Parkland, Florida	2/14/2018	Nikolas J. Cruz, 19, h...	17	14	31	School	19	Yes	Cruz had a long histo...
Pennsylvania carwas...	Melcroft, PA	1/28/2018	Timothy O'Brien Smi...	4	1	5	Other	28	TBD	-
Rancho Tehama shoo...	Rancho Tehama, CA	11/14/2017	Kevin Janson Neal, 4...	5	10	15	Other	44	TBD	-
Texas First Baptist C...	Sutherland Springs, TX	11/5/2017	Devin Patrick Kelley, ...	26	20	46	Religious	26	Yes	Kelley had a history o...
Waffle House shooting	Flowood, MS	11/1/2017	Emily Alice Parker, 19	2	2	2	Other	17	No	-

MINOR DATA HANDLING - SPLITTING A STRING

CUSTOMIZING DATA

Tableau - Book1

Sheet1 (Mother Jones - Mass Shootings Database, 1982 - 2018)

Connection: Live | Extract

Filters: 0 | Add

Connections: Mother Jones - Mass Shootings Database, 1982 - 2018 (Google Sheets)

Sheets: Sheet1

Use Data Interpreter: Data Interpreter might be able to clean your Google Sheets workbook.

Sheet1

New Union

Sort fields | Data source order | Show aliases | Show hidden fields | 106 rows

Case	Location	Fatalities	Injured	Total Victims	Location 1	Age Of Shooter	Prior Signs Mental...	Mental Health Det...
Thousand Oaks night...	Thousand Oaks, CA	12	22	34	Other	28	Yes	Per the LATimes: "Sh...
Tree of Life synagogu...	Pittsburgh, PA	11	6	17	Religious	46	-	-
Rite Aid warehouse s...	Perryman, MD	3	3	6	Workplace	26	-	-
T&T Trucking shooting	Bakersfield, CA	5	0	5	Workplace	54	-	-
Fifth Third Center sh...	Cincinnati, OH	3	2	5	Workplace	29	Yes	Perez filed a "delusio...
Capital Gazette shoo...	Annapolis, MD	5	2	7	Workplace	38	-	-
Santa Fe High School...	Santa Fe, TX	10	13	23	School	17	-	-
Waffle House shooting	Nashville, TN	4	4	8	Other	29	Yes	Reinking had a histor...
Yountville veterans h...	Yountville, CA	3	0	3	Workplace	36	Yes	Wong had served in ...
Marjory Stoneman D...	Parkland, Florida	17	14	31	School	19	Yes	Cruz had a long histo...
Pennsylvania carwas...	Melcroft, PA	4	1	5	Other	28	TBD	-
Rancho Tehama shoo...	Rancho Tehama, CA	5	10	15	Other	44	TBD	-
Texas First Baptist C...	Sutherland Springs, TX	26	20	46	Religious	26	Yes	Kelley had a history o...

A context menu is open over the first row of the table, showing options: Rename, Reset Name, Copy Values, Hide, Aliases..., Create Calculated Field..., Create Group..., Split (highlighted in blue), Custom Split..., Pivot (select multiple fields), and Describe... .

MINOR DATA HANDLING - SPLITTING A STRING

CUSTOMIZING DATA

Tableau - Book1

Connections Add
Mother Jones - e, 1982 - 2018 Google Sheets

Sheets
 Use Data Interpreter
Data Interpreter might be able to clean your Google Sheets workbook.

Sheet1

Sheet1 (Mother Jones - Mass Shootings Database, 1982 - 2018)

Connection Live Extract
Filters 0 | Add

Sort fields Data source order ▾ Show aliases Show hidden fields 106 rows

Abc Sheet1 Case	Abc Sheet1 Location	=Abc Calculation Location - Split 1	=Abc Calculation Location - Split 2	Sheet1 Date	Abc Sheet1 Summary	# Sheet1 Fatalities	# Sheet1 Injured	# Sheet1 Total Victims	Abc Sheet1 Location 1	# Sheet1 Age Of Shooter
Thousand Oaks night...	Thousand Oaks, CA	Thousand Oaks	CA	11/7/2018	Ian David Long, 28, d...	12	22	34	Other	28
Tree of Life synagogu...	Pittsburgh, PA	Pittsburgh	PA	10/27/2018	Robert D. Bowers, 46...	11	6	17	Religious	46
Rite Aid warehouse s...	Perryman, MD	Perryman	MD	9/20/2018	Snochia Moseley, 26, ...	3	3	6	Workplace	26
T&T Trucking shooting	Bakersfield, CA	Bakersfield	CA	9/12/2018	Javier Casarez, 54, w...	5	0	5	Workplace	54
Fifth Third Center sh...	Cincinnati, OH	Cincinnati	OH	9/6/2018	Omar Enrique Santa ...	3	2	5	Workplace	29
Capital Gazette shoo...	Annapolis, MD	Annapolis	MD	6/28/2018	Jarrod W. Ramos, 38,...	5	2	7	Workplace	38
Santa Fe High School...	Santa Fe, TX	Santa Fe	TX	5/18/2018	Dimitrios Pagourtzis,...	10	13	23	School	17
Waffle House shooting	Nashville, TN	Nashville	TN	4/22/2018	Travis Reinking, 29, o...	4	4	8	Other	29
Yountville veterans h...	Yountville, CA	Yountville	CA	3/9/2018	Army veteran Albert ...	3	0	3	Workplace	36
Marjory Stoneman D...	Parkland, Florida	Parkland	Florida	2/14/2018	Nikolas J. Cruz, 19, h...	17	14	31	School	19
Pennsylvania carwas...	Melcroft, PA	Melcroft	PA	1/28/2018	Timothy O'Brien Smi...	4	1	5	Other	28
Rancho Tehama shoo...	Rancho Tehama, CA	Rancho Tehama	CA	11/14/2017	Kevin Janson Neal, 4...	5	10	15	Other	44
Texas First Baptist C...	Sutherland Springs, TX	Sutherland Springs	TX	11/5/2017	Devin Patrick Kelley, ...	26	20	46	Religious	26
Walmart shooting in...	Thornton, CO	Thornton	CO	11/1/2017	Scott Allen Ostrem, 4...	3	0	3	Other	47

MINOR DATA HANDLING - MERGING

SQL-LIKE JOINS

The screenshot shows the Tableau desktop application interface. The top menu bar includes Tableau, File, Data, Server, Window, Help, and various system status icons. The title bar reads "Tableau - Book2". On the left, the "Connections" pane lists "Mother Jones' I... mass shootings" (Text File) as the active connection. Below it, the "Files" pane lists numerous CSV files. In the center, under the connection, is a folder named "STAT 140SL" containing a single file named "in_n_out.csv". A preview of this file is displayed in a large grid. The preview header includes columns: "Name", "Address", "City", "State", and "Zip". The data rows show various locations like IRVINE, CARLSBAD, ORANGE, MURRIETA, CORONA, VACAVILLE, MIDVALE, DAVIS, ARROYO GRANDE, and COVINA, each with their respective addresses, cities, states, and zip codes.

Name	Address	City	State	Zip
IRVINE	4115 CAMPUS DRIVE	IRVINE	CA	92612
CARLSBAD	5950 AVENIDA ENCI...	CARLSBAD	CA	92008
ORANGE (TUSTIN & L...	2585 N. TUSTIN ST.	ORANGE	CA	92865
MURRIETA	39697 AVENIDA ACA...	MURRIETA	CA	92563
CORONA (AUTO CEN...	450 AUTO CENTER DR.	CORONA	CA	92882
VACAVILLE	170 NUT TREE PKWY	VACAVILLE	CA	95687
MIDVALE	7206 S. UNION PARK ...	MIDVALE	UT	84047
DAVIS	1020 OLIVE DRIVE	DAVIS	CA	95616
ARROYO GRANDE	1170 W. BRANCH ST...	ARROYO GRAN...	CA	93420
COVINA	1371 GRAND AVE.	COVINA	CA	91724

MINOR DATA HANDLING - SELECT 2ND DATASET

SQL-LIKE JOINS

Tableau File Data Server Window Help 99% Sat 8:31 AM

Tableau - Book2

Connections Add

Mother Jones' I... mass shootings Text File

Files

- test.csv
- test_users.csv
- test_v2.csv
- Texas_Public_Salaries.csv
- TowersKG18...662439.csv
- train.csv
- train_users_2.csv
- train_v2.csv
- Transmitte...HW6101.csv
- travel.csv
- TweetsFormatted.csv
- TweetsRaw.csv
- U.S._Proper...n__2009.csv
- UCLA2014.csv
- university-o...nia-2014.csv
- unmatched.csv
- US_FIPS_Codes.csv
- USCensusAtS...-15xlsx.csv
- wapo.csv
- waterdata.csv
- Wiki-Vote.txt
- zbp06totals.txt
- zbp13detail.txt

STAT 140SL

in_n_out.csv zipcodedatabase1.csv

Connection Live Extract Filters 0 | Add

Sort fields Data source order ▾ Show aliases Show hidden fields 278 rows

Abc in_n_out.csv Name	Abc in_n_out.csv Address	in_n_out.csv City	in_n_out.csv State	in_n_out.csv Zip
IRVINE	4115 CAMPUS DRIVE	IRVINE	CA	92612
CARLSBAD	5950 AVENIDA ENCI...	CARLSBAD	CA	92008
ORANGE (TUSTIN & L...	2585 N. TUSTIN ST.	ORANGE	CA	92865
MURRIETA	39697 AVENIDA ACA...	MURRIETA	CA	92563
CORONA (AUTO CEN...	450 AUTO CENTER DR.	CORONA	CA	92882
VACAVILLE	170 NUT TREE PKWY	VACAVILLE	CA	95687
MIDVALE	7206 S. UNION PARK ...	MIDVALE	UT	84047
DAVIS	1020 OLIVE DRIVE	DAVIS	CA	95616
ARROYO GRANDE	1170 W. BRANCH ST...	ARROYO GRAN...	CA	93420
COVINA	1371 GRAND AVE.	COVINA	CA	91724

MINOR DATA HANDLING - MERGING

TABLEAU SUGGESTION

MINOR DATA HANDLING - MERGING

CHOOSE KEY VARIABLES

Tableau File Data Server Window Help 99% Sat 8:32 AM

Tableau - Book2

STAT 140SL

Connections Add

Mother Jones' I... mass shootings Text File

Files

- test.csv
- test_users.csv
- test_v2.csv
- Texas_Public_Salaries.csv
- TowersKGI8...662439.csv
- train.csv
- train_users_2.csv
- train_v2.csv
- Transmitte...HW6101.csv
- travel.csv
- TweetsFormatted.csv
- TweetsRaw.csv
- U.S._Proper...n__2009.csv
- UCLA2014.csv
- university-o...nia-2014.csv
- unmatched.csv
- US_FIPS_Codes.csv
- USCensusAtS...-15xlsx.csv
- wapo.csv
- waterdata.csv
- Wiki-Vote.txt
- zbp06totals.txt
- zbp13detail.txt

in_n_out.csv zipcodedatabase1.csv

Join

- Inner
- Left
- Right
- Full Outer

Data Source zipcodedatabase1.csv

Zip = Zipcode

Add new join clause

Show aliases Show hidden fields 210 rows

Abc in_n_out.csv Name	Abc in_n_out.csv Address	@ in_n_out.csv City	@ in_n_out.csv State	@ in_n_out.csv Zip	@ zipcodedatabase1.csv City1	@ zipcodedatabase1.... State1	@ zipcodedatabase1.csv County	Abc zipcodedatabas... Type	@ zipcodedatabase1.csv Country
IRVINE	4115 CAMPUS DRIVE	IRVINE	CA	92612	IRVINE	CA	ORANGE	STANDARD	US
CARLSBAD	5950 AVENIDA ENCI...	CARLSBAD	CA	92008	CARLSBAD	CA	SAN DIEGO	STANDARD	US
ORANGE (TUSTIN & L...	2585 N. TUSTIN ST.	ORANGE	CA	92865	ORANGE	CA	ORANGE	STANDARD	US
MURRIETA	39697 AVENIDA ACA...	MURRIETA	CA	92563	MURRIETA	CA	RIVERSIDE	STANDARD	US
CORONA (AUTO CEN...	450 AUTO CENTER DR.	CORONA	CA	92882	CORONA	CA	RIVERSIDE	STANDARD	US
VACAVILLE	170 NUT TREE PKWY	VACAVILLE	CA	95687	VACAVILLE	CA	SOLANO	STANDARD	US
DAVIS	1020 OLIVE DRIVE	DAVIS	CA	95616	DAVIS	CA	YOLO	STANDARD	US
ARROYO GRANDE	1170 W. BRANCH ST...	ARROYO GRANDE	CA	93420	ARROYO GRANDE	CA	SAN LUIS OBIS...	STANDARD	US
COVINA	1371 GRAND AVE.	COVINA	CA	91724	CHARTER OAK	CA	LOS ANGELES	STANDARD	US
SUNNYVALE	604 E EL CAMINO RE...	SUNNYVALE	CA	94087	SUNNYVALE	CA	SANTA CLARA	STANDARD	US

MINOR DATA HANDLING - MERGING

COMPETE (210/278 MATCHED)

Tableau File Data Server Window Help 99% Sat 8:32 AM

Tableau - Book2

STAT 140SL

Connection Live Extract

Filters 0 | Add

Connections [Add](#)

Mother Jones' I... mass shootings [Text File](#)

Files

- test.csv
- test_users.csv
- test_v2.csv
- Texas_Public_Salaries.csv
- TowersKGI8...662439.csv
- train.csv
- train_users_2.csv
- train_v2.csv
- Transmitte...HW6101.csv
- travel.csv
- TweetsFormatted.csv
- TweetsRaw.csv
- U.S._Proper...n__2009.csv
- UCLA2014.csv
- university-o...nia-2014.csv
- unmatched.csv
- US_FIPS_Codes.csv
- USCensusAtS...-15xlsx.csv
- wapo.csv
- waterdata.csv
- Wiki-Vote.txt
- zbp06totals.txt
- zbp13detail.txt

in_n_out.csv zipcodedatabase1.csv

Join

Inner Left Right Full Outer

Data Source zipcodedatabase1.csv

Zip = Zipcode

Add new join clause

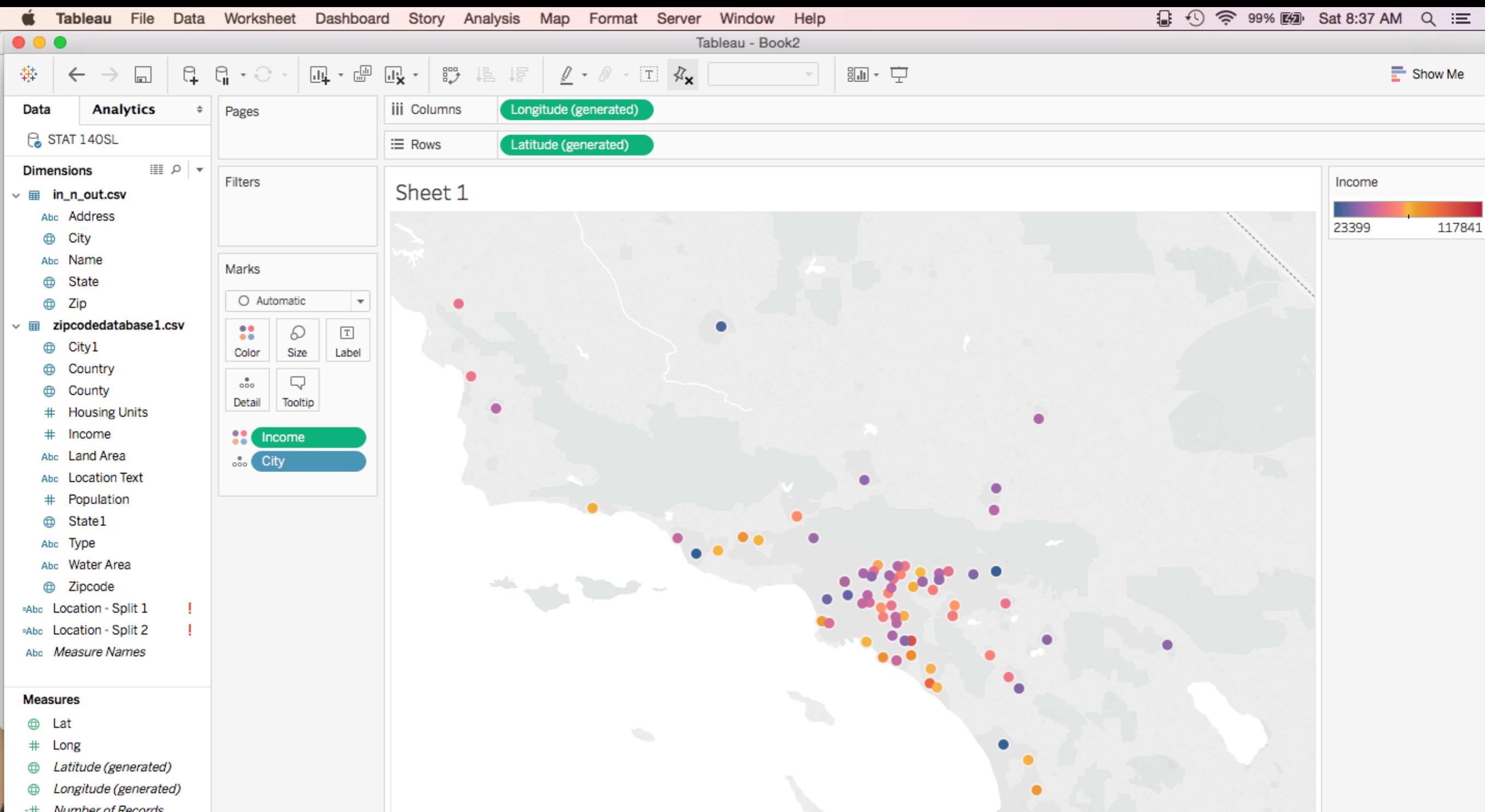
Sort fields Data source order

Show aliases Show hidden fields 210 rows

Abc in_n_out.csv Name	Abc in_n_out.csv Address	@ in_n_out.csv City	@ in_n_out.csv State	@ in_n_out.csv Zip	@ zipcodedatabase1.csv City1	@ zipcodedatabase1.... State1	@ zipcodedatabase1.csv County	Abc zipcodedatabas... Type	@ zipcodedatabase1.csv Country
IRVINE	4115 CAMPUS DRIVE	IRVINE	CA	92612	IRVINE	CA	ORANGE	STANDARD	US
CARLSBAD	5950 AVENIDA ENCI...	CARLSBAD	CA	92008	CARLSBAD	CA	SAN DIEGO	STANDARD	US
ORANGE (TUSTIN & L...	2585 N. TUSTIN ST.	ORANGE	CA	92865	ORANGE	CA	ORANGE	STANDARD	US
MURRIETA	39697 AVENIDA ACA...	MURRIETA	CA	92563	MURRIETA	CA	RIVERSIDE	STANDARD	US
CORONA (AUTO CEN...	450 AUTO CENTER DR.	CORONA	CA	92882	CORONA	CA	RIVERSIDE	STANDARD	US
VACAVILLE	170 NUT TREE PKWY	VACAVILLE	CA	95687	VACAVILLE	CA	SOLANO	STANDARD	US
DAVIS	1020 OLIVE DRIVE	DAVIS	CA	95616	DAVIS	CA	YOLO	STANDARD	US
ARROYO GRANDE	1170 W. BRANCH ST...	ARROYO GRANDE	CA	93420	ARROYO GRANDE	CA	SAN LUIS OBIS...	STANDARD	US
COVINA	1371 GRAND AVE.	COVINA	CA	91724	CHARTER OAK	CA	LOS ANGELES	STANDARD	US
SUNNYVALE	604 E EL CAMINO RE...	SUNNYVALE	CA	94087	SUNNYVALE	CA	SANTA CLARA	STANDARD	US

MINOR DATA HANDLING - ANALYSIS RESULT

MAPPED MERGED RESULT



MAPPING

ALL STARBUCKS LOCATIONS

MAPPING EXAMPLE

Screenshot of a data analysis tool interface showing Starbucks location data.

Connections:

- Mother Jones' I... mass shootings (Text File)

Files:

- 2012-univer...-system.csv
- 2013-cities.csv
- 2013-counties.csv
- 2013-pensions.csv
- 2013-univer...-system.csv
- 2013_State..._2012.csv
- 2014-pensions.csv
- 2014-univer...-system.csv
- 2014_Regist...perties.csv
- 263060200355487.tab
- 311_Service...plaints.csv
- 311_Service...Present.csv
- aboutTrump.csv
- age_gender_bkts.csv
- Airplane_Cr...ce_1908.csv
- All_Shooting..._Present.csv
- All_Starbu...e_World.csv
- AllServers_ASC.csv
- austin.csv
- austin1.csv
- austin1.txt
- Baltimore_C..._FY2014.csv
- BigPull.csv
- Birth_Weigh...00-2013.csv
- New Union

STAT 140SL

Connection: Live

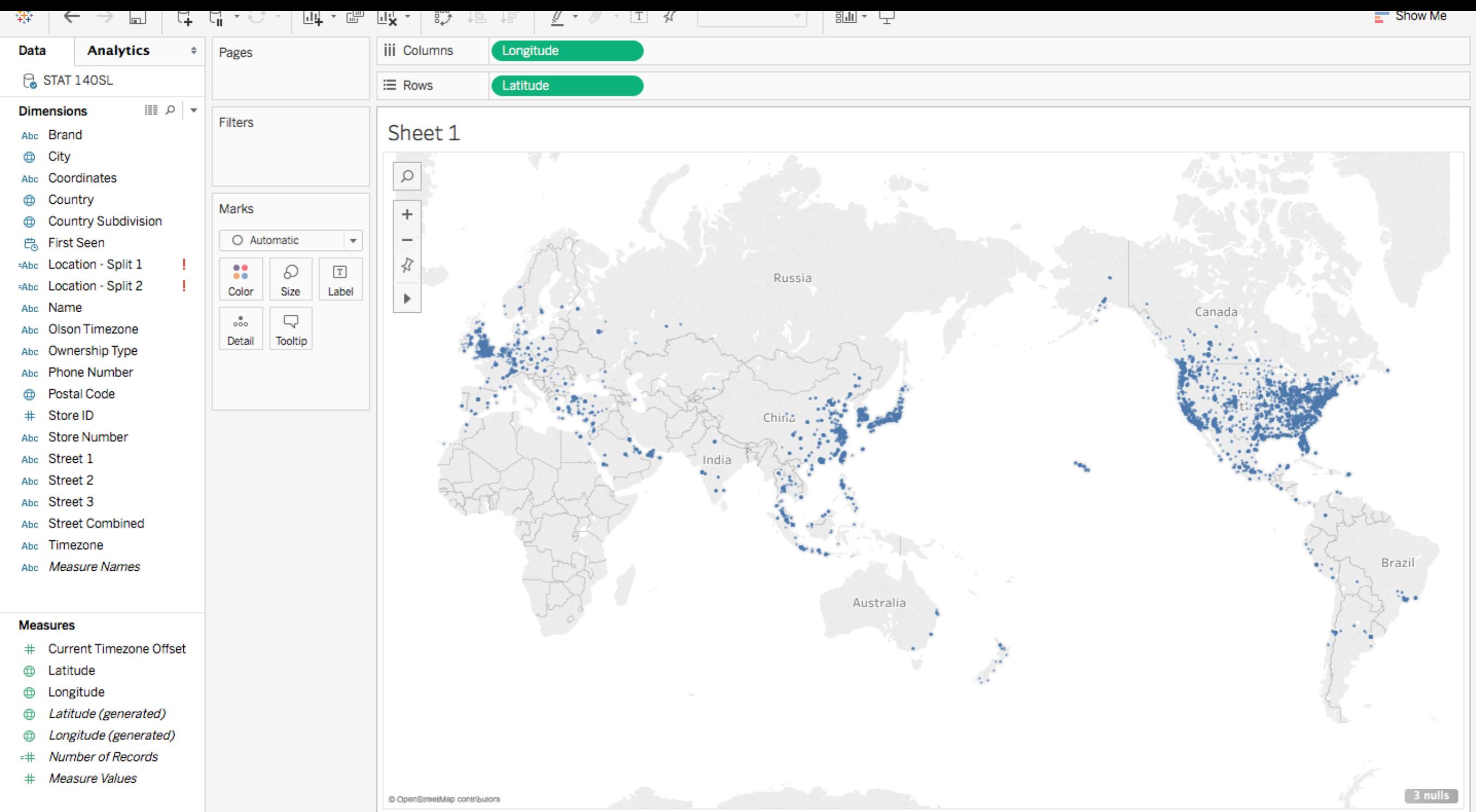
Filters: 0 | Add

Table View:

#	Abc All_Starbucks_Lo...	Abc All_Starbucks_Loc...	Abc All_Starbucks_Loc...	Abc All_Starbucks_Locations_in_th...					
Store ID	Name	Brand	Store Number	Phone Number	Ownership Type	Street Combined	Street 1	Street 2	Address
1	Plaza Hollywood	Starbucks	34638-85784	29554570	LS	Level 2, Plaza Hollyw...	Level 2, Plaza Hollyw...	Kowloon	
6	Exchange Square	Starbucks	34601-20281	21473739	LS	Shops 308-310, 3/F,...	Shops 308-310, 3/F.,	Exchang	
8	Telford Plaza	Starbucks	34610-28207	27541323	LS	Shop Unit G1A, Atriu...	Shop Unit G1A, Atriu...	, Kowloo	
13	Hong Kong Station	Starbucks	34622-64463	25375216	LS	Concession HOK 3a &...	Concession HOK 3a &	LAR Hon	
17	Pacific Place, Central	Starbucks	34609-22927	29184762	LS	Shop 131, Level 1, Pa...	Shop 131, Level 1, Pa...	88 Quee	
19	MTR Hung Hom	Starbucks	34633-55579	23334952	LS	Shop No.1, Mezzanin...	Shop No.1, Mezzanin...	Unpaid C	
23	Citibank Plaza	Starbucks	34616-51681	25091007	LS	Shop 3, Citibank Plaz...	Shop 3, Citibank Plaz...	Central,	
25	MTR Central	Starbucks	34630-69462	28400565	LS	Kiosk Nos. CEN K4-K...	Kiosk Nos. CEN K4-K...	, MTR Ce	
27	Wan Chai Tower	Starbucks	34615-55880	28240568	LS	G/F, Wanchai Tower, ...	G/F, Wanchai Tower, ...	Wanchai	
34	Shun Tak Centre	Starbucks	34634-82422	25496508	LS	Shop unit 226-227, 2...	Shop unit 226-227, 2...	Nos.168	
37	Sun Hung Kai Centre	Starbucks	34605-28027	28457367	LS	Shop G12-13, G/F. Su...	Shop G12-13, G/F. Su...	30 Harbo	
38	Lamcy Plaza	Starbucks	34247-62179	04-3347995	LS	Oud Meena Road, Fir...	Oud Meena Road	First flo	

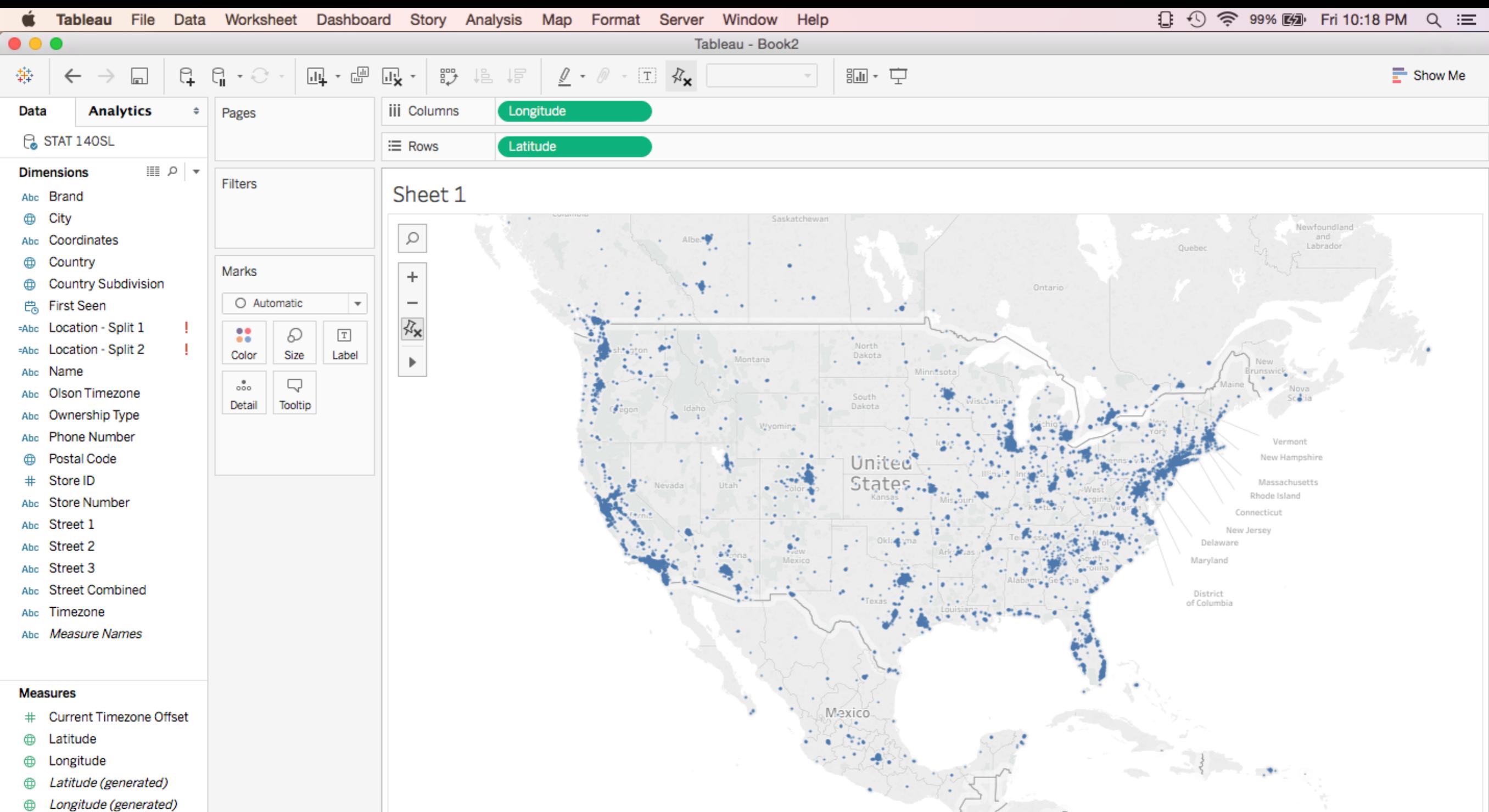
DRAG LATITUDE (ROWS) LONGITUDE (COLUMNS)

MAPPING EXAMPLE

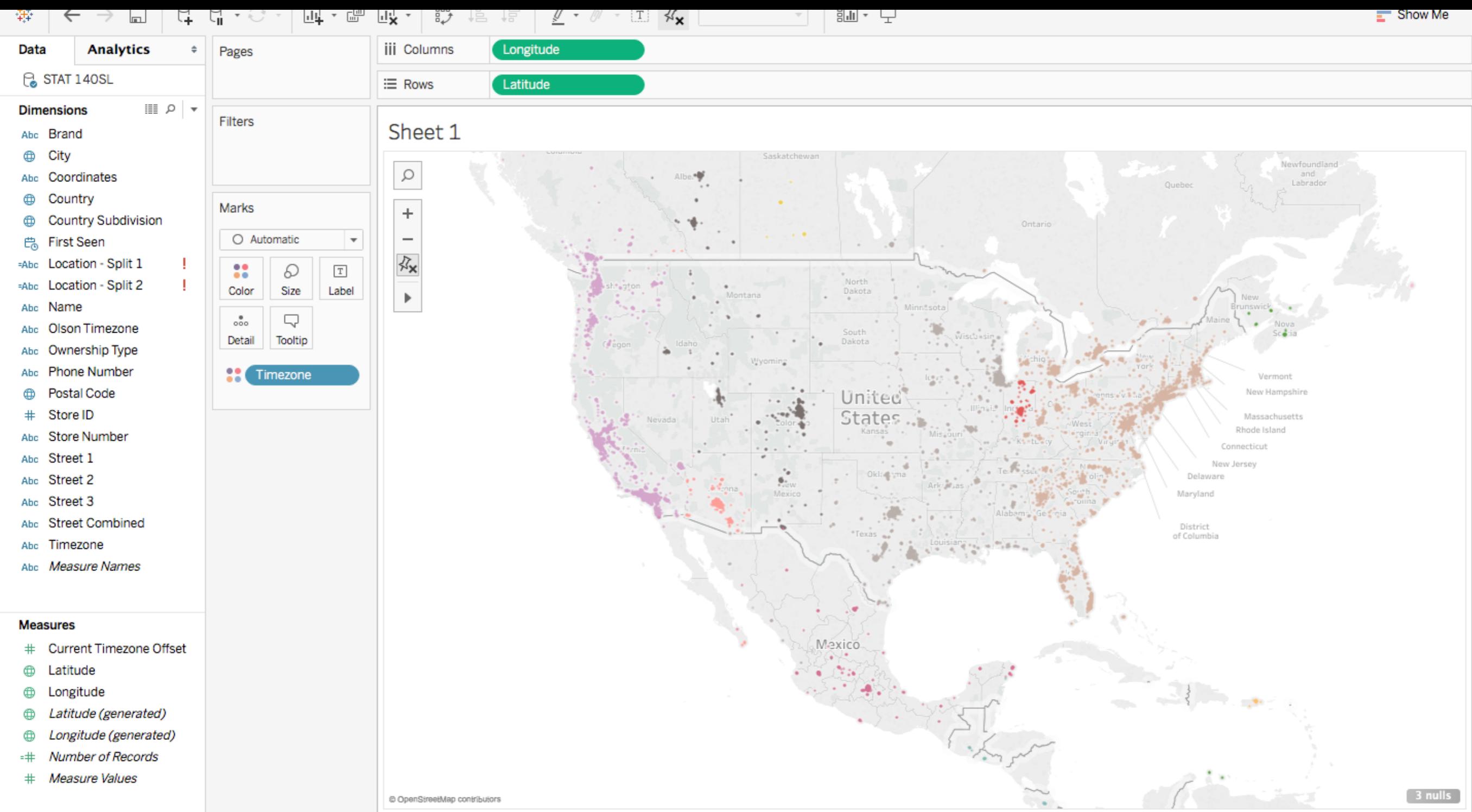


DRAG LATITUDE (ROWS) LONGITUDE (COLUMNS)

DRAG TO CHANGE ORIENTATION



DRAG LATITUDE (ROWS) LONGITUDE (COLUMNS) COLOR BY ANOTHER VARIABLE



ADDITIONAL FEATURES

DASHBOARDS AND
STORIES

TABLEAU DASHBOARD - EDITING

ASSEMBLE A DASHBOARD WITH MULTIPLE VISUALIZATIONS

Tableau - iris

Dashboard Layout

IRIS DASHBOARD

Scatter Plot of Petal Length and Petal Width

Petal.Length

Petal.Width

Species

- setosa
- versicolor
- virginica

Dashboard 1

Position

x

y

Size

w 1,000

h 800

Floating

Show title

Shading

Objects

Dashboard 1

- Tiled
- Vertical
 - IRIS DASH...
- Horizontal
 - Tiled
 - Vertical

BOX PLOT

Species

Species
setosa
versicolor
virginica

0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5

Serial.Width

Data Source Sheet 1 Sheet 2 Dashboard 1

This screenshot illustrates the process of creating a dashboard in Tableau. The main area displays two visualizations: a scatter plot titled 'Scatter Plot of Petal Length and Petal Width' and a box plot titled 'BOX PLOT'. The scatter plot uses 'Petal.Length' on the y-axis and 'Petal.Width' on the x-axis, with data points colored by 'Species'. The box plot shows the distribution of 'Serial.Width' for three species: setosa, versicolor, and virginica. The left sidebar, titled 'Dashboard' and 'Layout', contains various configuration options for the dashboard itself, such as position, size, and shading. The bottom navigation bar includes links for 'Data Source', 'Sheet 1', 'Sheet 2', and 'Dashboard 1', along with other standard Tableau interface elements.

TABLEAU DASHBOARD - PRESENTATION MODE

ASSEMBLE A DASHBOARD WITH MULTIPLE VISUALIZATIONS

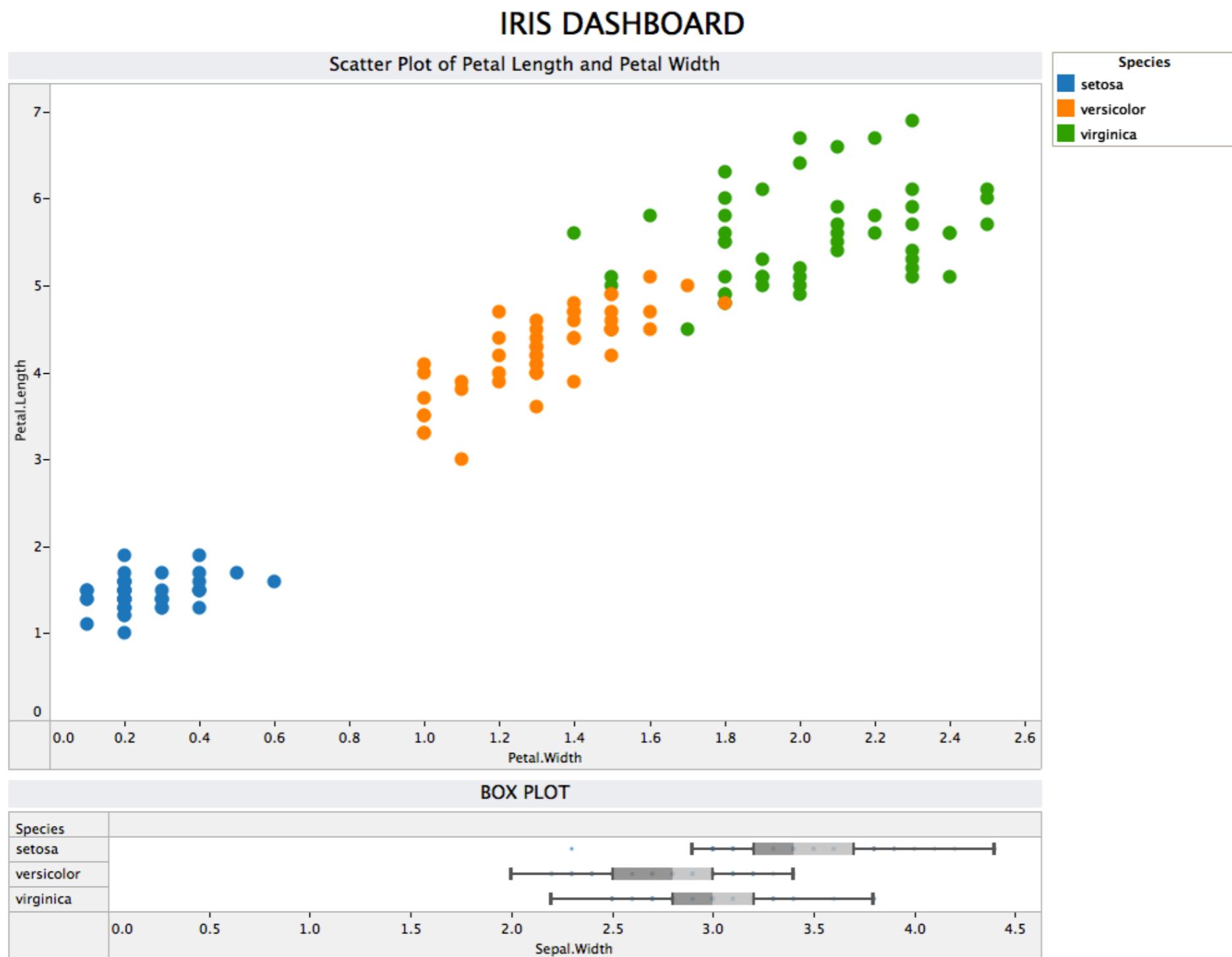


TABLEAU STORY

STORYLINE WITH MULTIPLE

VISUALIZATIONS

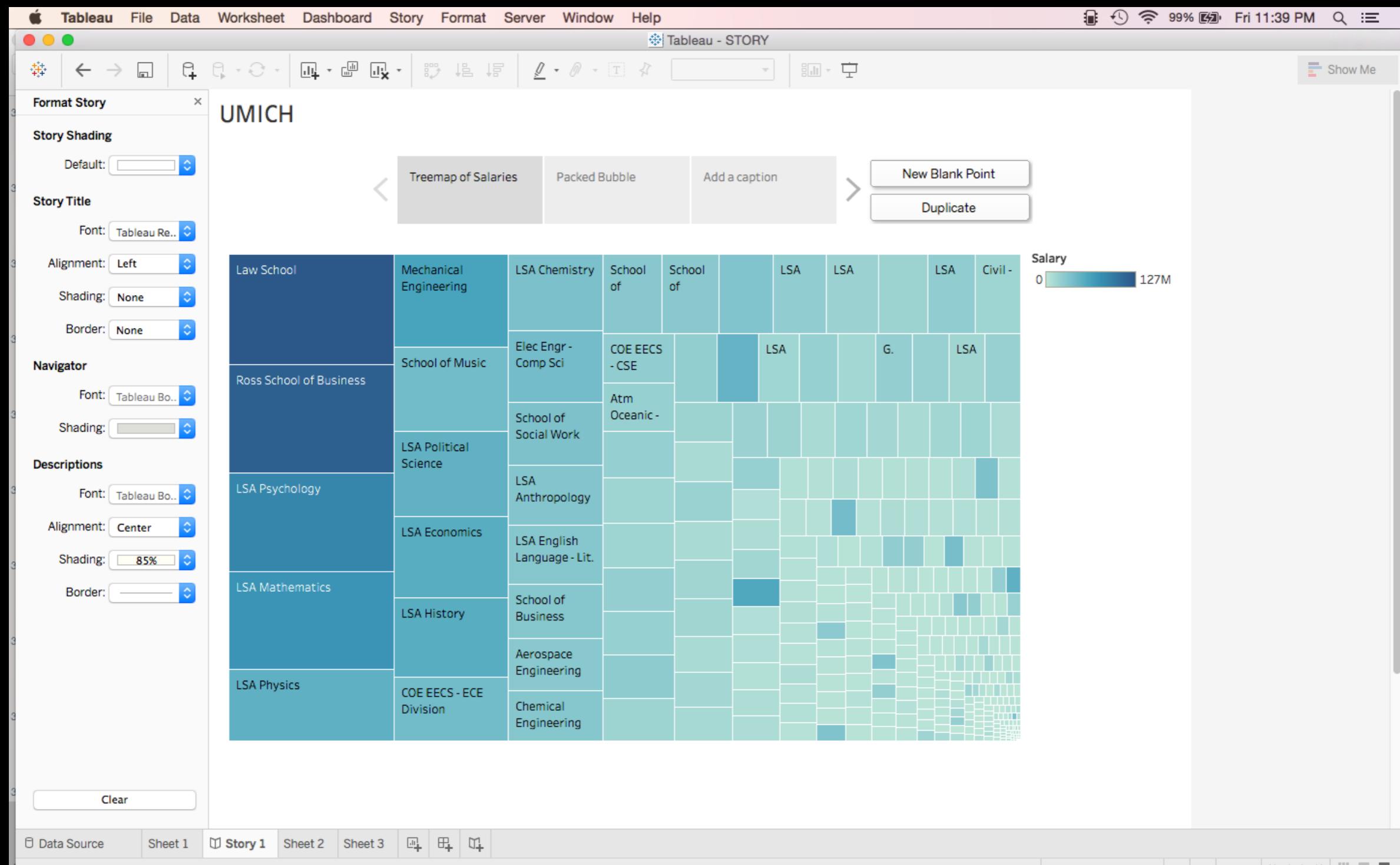


TABLEAU STORY

STORYLINE WITH MULTIPLE

VISUALIZATIONS

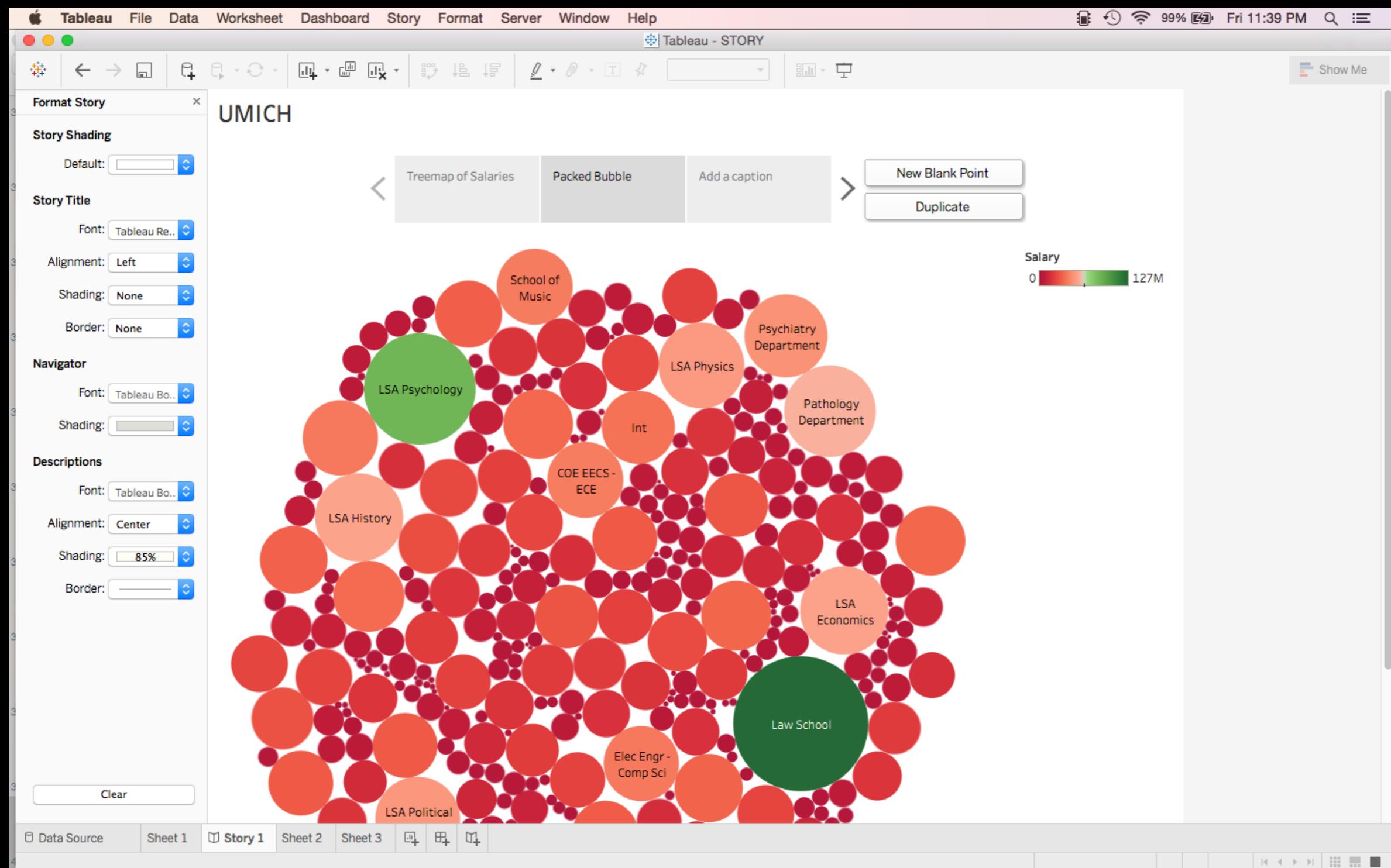


TABLEAU STORY

STORYLINE WITH MULTIPLE

VISUALIZATIONS

Tableau - STORY

UMICH

Treemap of Salaries | Packed Bubble | Add a caption | New Blank Point | Duplicate

Department

Department	Median General Propor..
Aerospace Engineering	0.850
Anesthesiology Departme..	0.000
Atm Oceanic - Space Sci.	0.750
Atm Oceanic & Space Sci.	0.700
Atm Oceanic and Space S..	0.640
Atm Oceanic and Space Sci.	0.725
Biologic and Materials Sci..	0.700
Biological Chemistry Dept	0.500
Biomedical Engineering	0.317
Biostatistics Department	0.250
Cardiac Surgery	0.000
Cardiac Surgery Section	0.030
CariologyRestor Sci - Endo	0.750
CariologyRestor Sci and ..	0.774
Cell and Developmental Bi..	0.460
Chemical Engineering Dept	0.700
Child Behavioral Health	0.000
Civil - Environmental Engr	1.000
Civil & Environmental Engr	0.950
Civil and Environmental ..	1.000
Civil and Environmental E..	0.961
CoE Aerospace Engineering	
CoE Atm Oceanic - Space S..	
CoE Biomedical Engineeri..	
CoE Chemical Engineering..	
CoE Civil - Environmental ..	
CoE Civil and Environmen..	
COE EECS - CSE Division	0.698
COE EECS - ECE Division	0.850

Clear

Data Source | Sheet 1 | Story 1 | Sheet 2 | Sheet 3 |

TABLEAU STORY

STORYLINE WITH MULTIPLE

VISUALIZATIONS

