



# Data workshop

# Tableau

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# Who am I?

- Cohort lead & Data Instructor at CodeClan

CodeClan is a not-for-profit social enterprise in Scotland. The first and only SQA accredited digital skills academy on a mission to help bridge the digital skills gap in Scotland's growing tech industry.



- Volunteer at DataKindUK

DataKindUK is a charity that builds data science capacity in social change organisations.



# Objectives & approach

## Objective

- Introduction to transferrable Tableau/dashboard building skills

## Approach

- Will be using fake charity data to do so
- Introduce concepts
- Work through together

## Resources

- Slides with step by step guide will be available after the talk.

**Why use data visualisation tools  
like Tableau?**

# Benefits of data visualisation tools

- Publish data reports and dashboards online - easy to share.
- Interactive (user can drill into data)
- Hold a lot more information in single view
- Can handle much bigger datasets
- Automatic updates of visuals if new data
- Connecting and visualising many data sources in one place
- Multiple collaborators on single dashboard
- Easy download of visuals for static reports...

...and don't need to be able to code to do all of above.

# Introduction to Tableau

# Tableau

A tool to **build interactive dashboards**  
- bringing together data from **multiple sources** and **visualising** to bring **insights** from the data.



**Tableau** works in both Windows and Mac computers.

**View some examples [here](#)**

# Tableau products

1. **Desktop** - desktop application (Professional & Personal versions).
2. **Public** (free) - similar to Desktop but have to save publically (so can only use open data) and more limited number of data sources to connect to.
3. **Server** - you host data on your own server (large organisations).
4. **Online** - data hosted by Tableau in the cloud.
5. **Reader** (free) - allows you to view the workbooks and visualizations created using Tableau Desktop (but not create/edit)
6. **Mobile**



# Tableau Foundation

# Tableau Foundation

In 2018 Tableau announced its commitment to grant \$100 million in software, training, and financial support through Tableau Foundation between now and the year 2025.

The purpose of Tableau Foundation is to encourage the use of facts and analytical reasoning to solve the world's problems. **It donates free/reduced fee licenses of its product and it's employees time.** More about the Foundation [here](#).

Featured projects in the Foundation [here](#), with public Tableau dashboards created for each project.

# Tableau Foundation - donations

## Donated licenses

Small nonprofits/NGO can request license of Tableau Desktop from Tableau Foundation.

- Certain criteria (such as an annual budget under about £4 million) to be eligible for donation.
- More information and to apply [here](#).

## Donated technical support - Tableau Service Corps

- A volunteer network of Tableau experts eager to help non-profits do more with their data.
- More information and to request a session [here](#).

# Tableau solutions

Tableau page with resources and inspiration for non-profits [here](#).

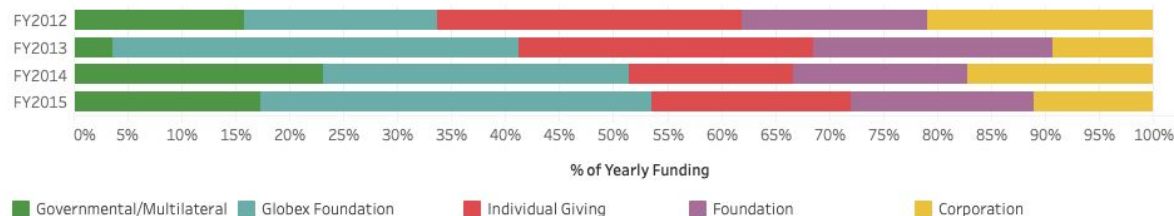
**Donor data** dashboard example [here](#).

Visualising who are the donors? When will they give, and how much? How much is committed for the future and where else should we be looking?

## Funding Trends - FY2012-2015

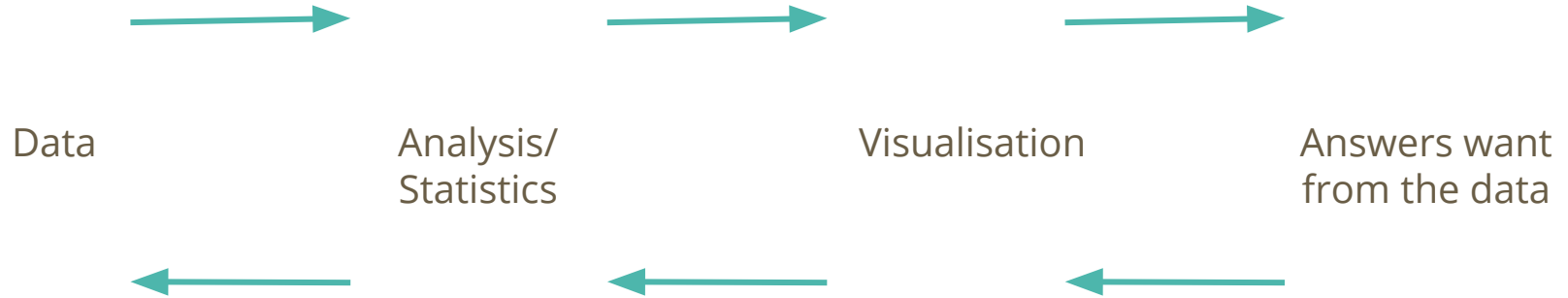
### Funding by Source Type

'individual giving' includes funding from family foundations, community foundations, corporate matching gifts, and small community-based nonprofits- all giving driven from individuals- may not align with finance categories.



# Planning your dashboard

# Workflow



- Think about **end users of the dashboard** & **how they will use the information**.
- Sketch out planned design before begin and what data will need.
  - Lots of free online tools for sketching/designing such as Excalidraw [here](#).

# Why are you tracking this on your dashboard?

Questions	Example
<b>What</b> is the metric?	Number of service users.
<b>Why</b> are you tracking this metric?	To ensure that if demand for service is greater than supply we can act to meet demand where possible.
<b>What action</b> will you take if there is a change to the metric?	If it goes above a certain value we will need to increase the capacity for services or recruit more volunteers to meet demand.
Do you have a <b>benchmark/target</b> to compare metric against?	Ratio of 10 service users to a volunteer.

**Let's see the data files ...**



# Fake charity data

Data for a fake charity that has 50 service users and have 3 different services (A, B & C).

## service\_user\_data.csv

- *Id*: unique identifier
- *Age*
- *Country/Postcode*: location data of the users
- *Service*: which service they use (A, B or C)
- *Pre-service outcome*: rating of 1 to 5 on the outcome the charity is looking to improve through it's services (1 is poor and 5 is good). This is the score before the user starts using the service.
- *Post-service outcome*: the outcome score after the service.

## dates\_of\_use.csv

- *Id*: unique identifier (same identifier as in the service\_user\_data.csv)
- *DateOfVisit*

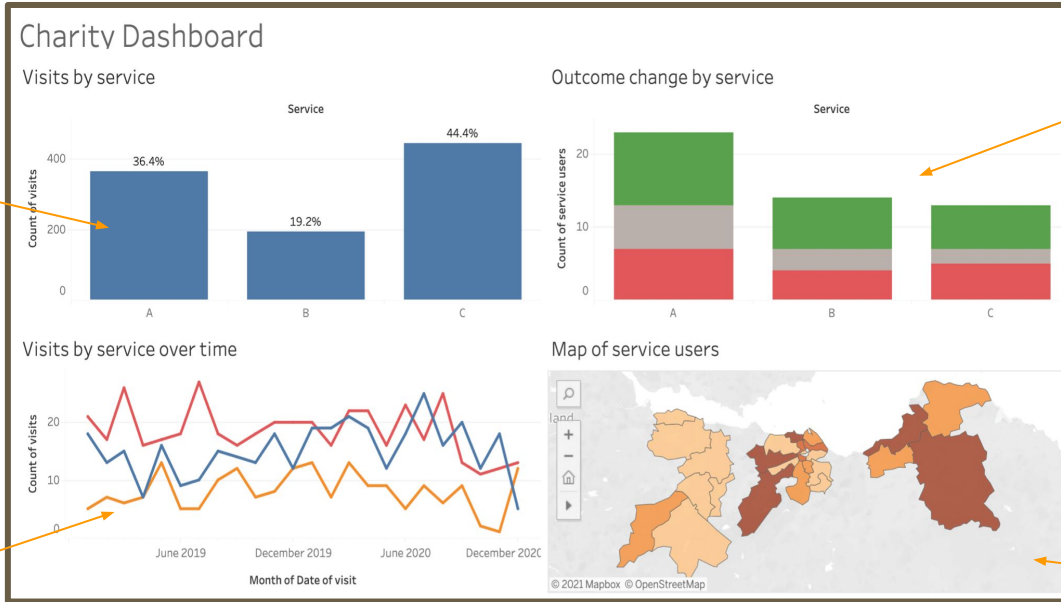
# Questions we want to answer

1. How do the number of visits differ between services?
2. Where are our users from?
3. How does service usage change over time?
4. How do change in outcomes differ for each service type?

Investigated with this dashboard ...

# How are our questions answered

How do the number of visits differ between services?



How do change in outcomes differ for each service type?

How does service usage change over time?

Where are our users from?

# Overview

# Dashboard build steps

1. Load in data
2. Build relationships
3. Data preparation (clean, reshape, make new columns etc.)
4. Build visuals
5. Combine visuals into dashboard

**Let's open Tableau ...**

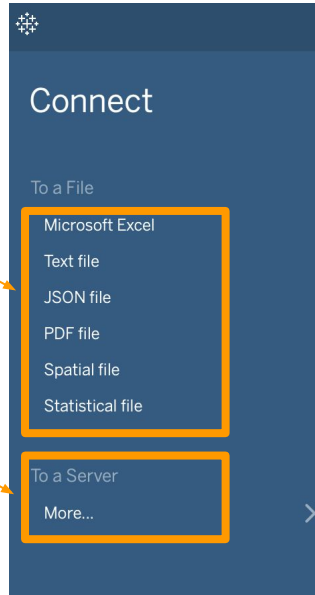
**Connect to data**



# Connect to data

Excel, csv, PDF,  
spatial (geographic)

Google sheets &  
web data



- Can connect to some common data sources in Tableau Public e.g. Excel, csv files (text file) etc.
- Data sources are limited in Tableau Public compared to Tableau Desktop, Server etc.

# Data sources for Tableau Desktop

- Flat files e.g. csvs, xls, PDFs
- Databases (e.g. SQL Server, Oracle etc.)
- Salesforce, Google Analytics, Access
- Google Sheets, Dropbox
- Web (e.g. APIs, data on web)

.... and many many more (full list [here](#)).

Data always updating? The source can be 'live' in that your **dashboard updates as the data does** or can schedule periodic refreshes.

**Let's load in some data ...**

# Data Source page

List of connections (may be 1 csv, 1 database etc.)

Canvas: Build any relationships

Data interpreter -  
used if data needs  
cleaning

Can always get  
back to this view  
by clicking on  
'Data Source'

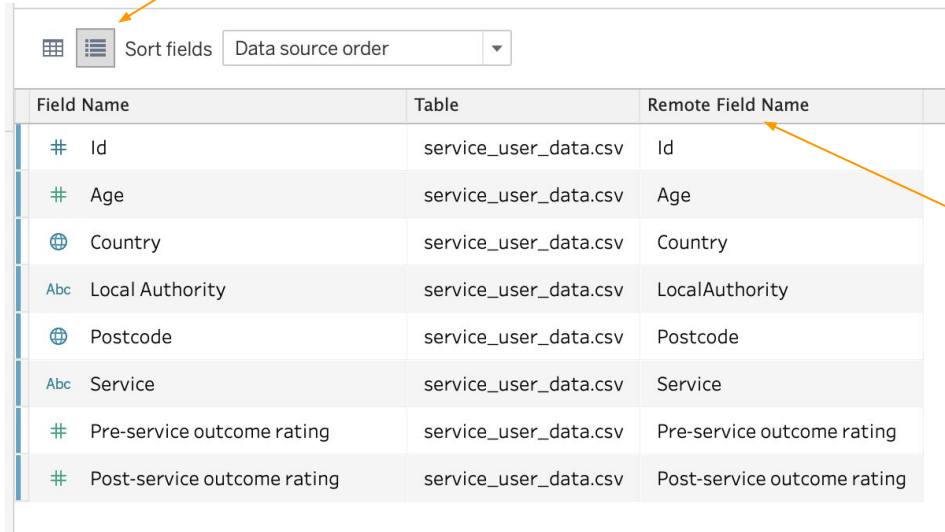
The screenshot shows the 'Data Source' page in a software interface. On the left, there's a sidebar with 'Connections' and 'Files' sections. The 'Connections' section lists 'service\_user\_data' as a 'Text file'. The 'Files' section has a checkbox for 'Use Data Interpreter' and a note: 'Data Interpreter might be able to clean your Text file workbook.' Below this is a list of files, including 'service\_user\_data.csv'. At the bottom of the sidebar is a 'New Union' button. The main area is titled 'service\_user\_data' and contains a box labeled 'service\_user\_data.csv'. Below this is a canvas with the text 'Need more data? Drag tables here to relate them. Learn more'. At the bottom, there's a table with 11 rows and 9 columns. The columns are: '#', 'service\_user\_data.csv', 'Age', 'Country', 'Local Authority', 'Postcode', 'Service', 'Pre-service outcome', and 'Post-service outcome'. The table contains data for 11 different service users. At the bottom of the page, there's a 'Data Source' button highlighted with an orange box.

#	service_user_data.csv	Age	Country	Local Authority	Postcode	Service	Pre-service outcome	Post-service outcome
1	service_user_data.csv	40	Scotland	Edinburgh - City of	EH3 5JN	A	2	2
2	service_user_data.csv	33	Scotland	East Lothian	EH39 4BJ	A	3	5
3	service_user_data.csv	25	Scotland	Edinburgh - City of	EH9 2DQ	B	4	3
4	service_user_data.csv	56	Scotland	Edinburgh - City of	EH3 6LB	A	2	3
5	service_user_data.csv	41	Scotland	Edinburgh - City of	EH12 7BX	A	1	2
6	service_user_data.csv	33	Scotland	Edinburgh - City of	EH9 2LZ	C	1	2
7	service_user_data.csv	55	Scotland	Edinburgh - City of	EH12 6HD	A	3	4
8	service_user_data.csv	38	Scotland	East Lothian	EH32 9QH	B	5	1
9	service_user_data.csv	25	Scotland	West Lothian	EH54 7FD	C	3	2
10	service_user_data.csv	29	Scotland	West Lothian	EH52 5NT	C	5	1
11	service_user_data.csv	40	Scotland	Edinburgh - City of	EH14 3RH	A	6	4

Preview of data

# Metadata view

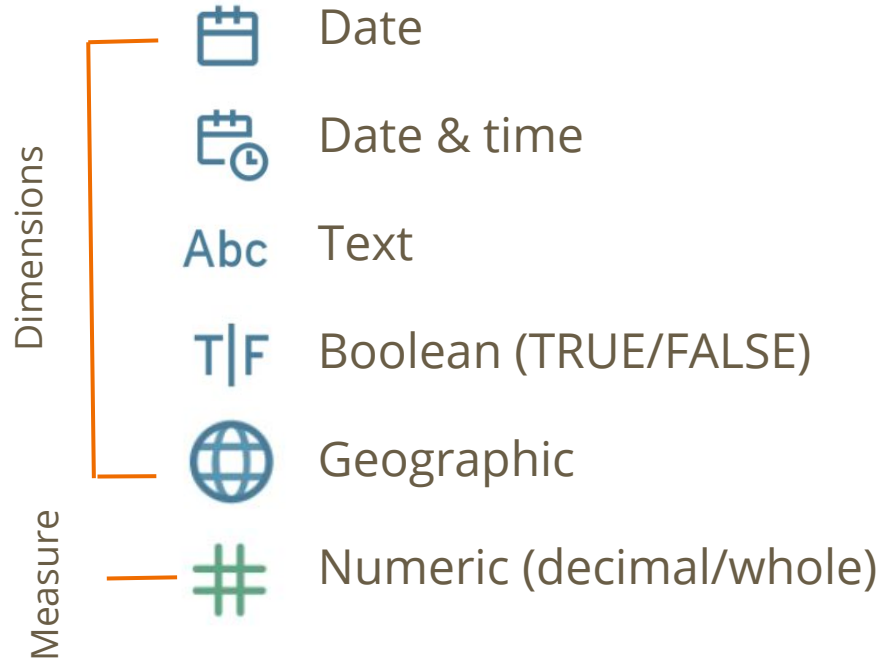
'Manage metadata' gives you a column level summary of the data. Good if you have 'wide data' i.e. many columns.



Field Name	Table	Remote Field Name
# Id	service_user_data.csv	Id
# Age	service_user_data.csv	Age
🌐 Country	service_user_data.csv	Country
Abc Local Authority	service_user_data.csv	LocalAuthority
🌐 Postcode	service_user_data.csv	Postcode
Abc Service	service_user_data.csv	Service
# Pre-service outcome rating	service_user_data.csv	Pre-service outcome rating
# Post-service outcome rating	service_user_data.csv	Post-service outcome rating

Field names in data source

# Data types



Symbols indicate the data type of the column auto-detected by Tableau.  
If want to change then click on the symbol to change

The screenshot shows a Tableau data table with columns: Id, Age, Country, Service, and another Service column. The 'Service' column has a dropdown menu open, showing options: Number (decimal), Number (whole), Date & Time, Date, String (checked), Boolean, Default (checked), and Geographic Role. An orange arrow points to the 'Service' column header.

#	#	🌐	Abc	🌐	Abc
service_us...	service_us...	service_user_data.csv	Abc	user_data.csv	service_user_data...
Id	Age	Country		code	Service
1	40	Scotland		JN	A
2	33	Scotland		4BJ	A
3	25	Scotland		DQ	B
4	56	Scotland		LB	A
5	41	Scotland		7BX	A
6	33	Scotland	Edinburgh - City of	EH9 2LZ	C
7	55	Scotland	Edinburgh - City of	EH12 6UD	A

# Let's load in some data...

Load in the service\_user\_data file:

1. Keep all columns except the age column
2. Check columns are the correct data type.
3. Rename the columns 'Pre-service outcome rating' and 'Post service outcome rating' to 'Outcome Before' and 'Outcome After'

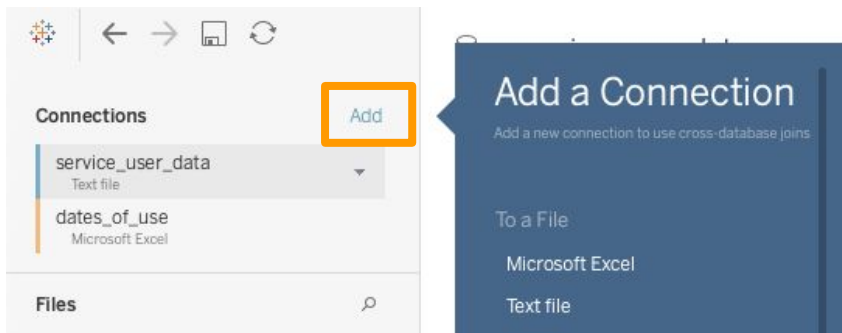
# First steps of data preparation

- Change table name if needed (e.g. may have long file name) - keep short & meaningful.
- Only keep columns that need (hide columns you don't)
- Change any column names
- Check columns are correct type (text, numeric etc.) - change if not
- Check columns are categorised dimensions or measures correctly

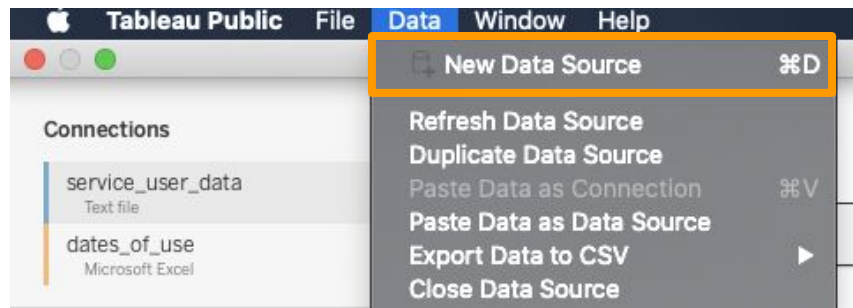


# Bringing in more data - source vs. connection

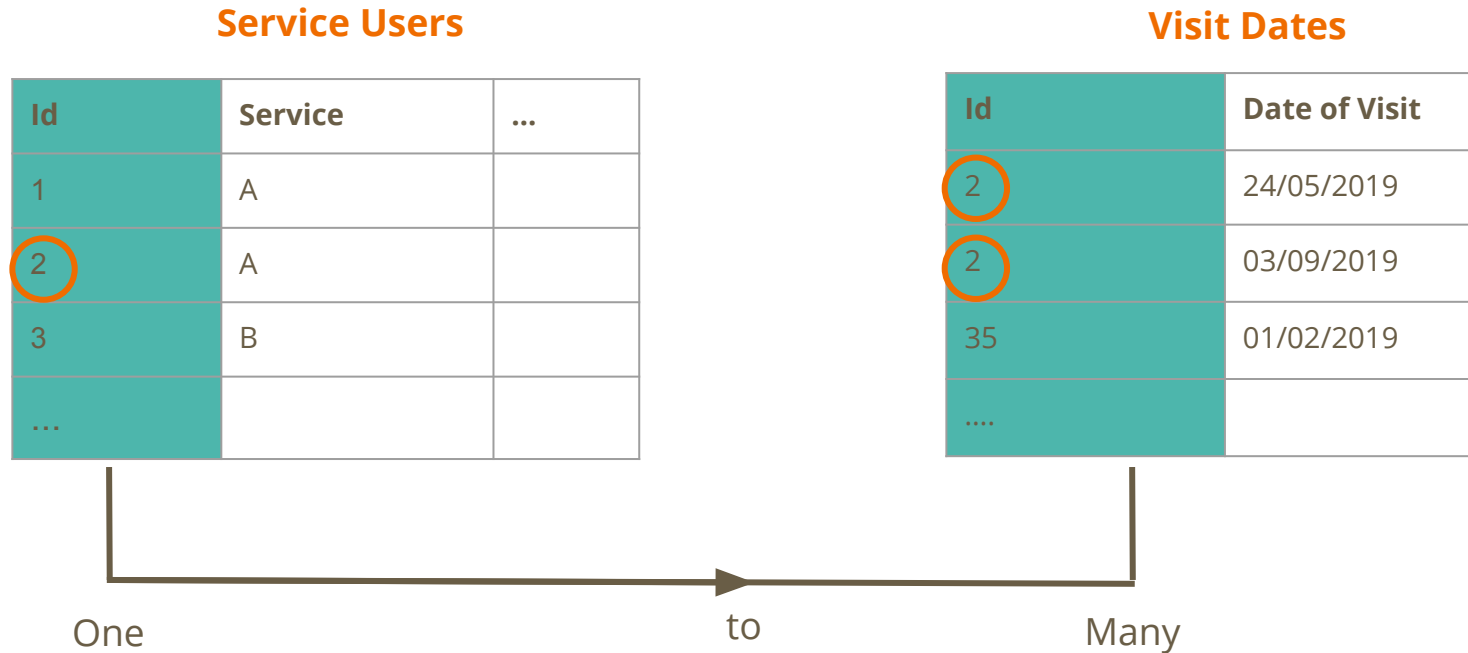
Do you want to **relate/join** your tables?  
Add a new **connection** in the same data source.



Do you want to bring in a table that has **no relationship** to your current one?  
Add a new **data source**.



# How are our data tables related?



# Relationships

- Define how data is related to one another based on common fields.
- Can join via more than one field.
- Drag related connection into canvas area to built relationship

The screenshot displays a data tool interface with a sidebar on the left and a main canvas on the right. The sidebar has two sections: 'Connections' and 'Sheets'. The 'Connections' section shows 'service\_user\_data' (Text file) and 'dates\_of\_use' (Microsoft Excel). The 'Sheets' section shows 'dates\_of\_use' and 'Other', with a 'New Union' button at the bottom. The main canvas shows a diagram with two boxes, 'service\_user\_data.csv' and 'dates\_of\_use', connected by an orange line. An 'Edit Relationship' dialog box is open in the foreground, showing the relationship between the two data sources. The dialog has a title bar with a close button. Below the title bar, it says 'How do relationships differ from joins? [Learn more](#)'. The dialog is divided into two columns: 'service\_user\_data.csv' and 'dates\_of\_use'. Under 'service\_user\_data.csv', there is a search bar and a list of fields: '# Id', '# Age', 'Abc Country', '# Id' (highlighted), 'Abc Local Authority', '# Post-service outcome rating', 'Abc Postcode', and '# Pre-service outcome rating'. Under 'dates\_of\_use', there is a search bar and a list of fields: '# Service User Id' (highlighted), 'Abc Country (datesofuse)', 'Date Of Visit', and '# Service User Id'. At the bottom right of the dialog is a 'Close' button.

**Connections** [Add](#)

- service\_user\_data  
Text file
- dates\_of\_use  
Microsoft Excel

**Sheets** [New Union](#)

- dates\_of\_use
- Other

service\_user\_data.csv — dates\_of\_use

**Edit Relationship** [Close](#)

How do relationships differ from joins? [Learn more](#)

service\_user\_data.csv      dates\_of\_use

# Id      # Service User Id

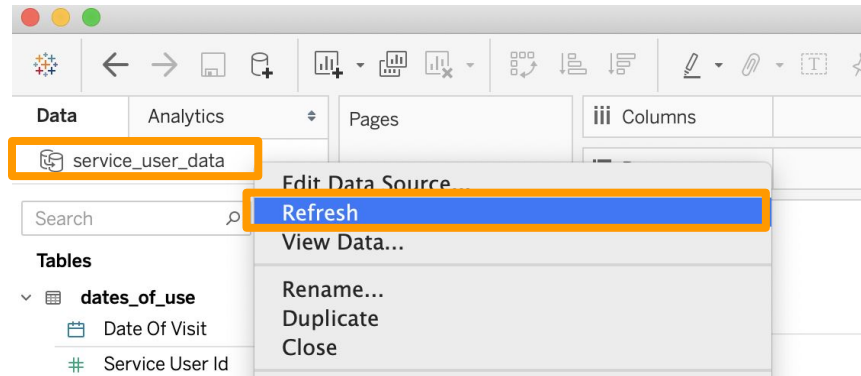
# Age  
Abc Country  
# Id  
Abc Local Authority  
# Post-service outcome rating  
Abc Postcode  
# Pre-service outcome rating

Abc Country (datesofuse)  
Date Of Visit  
# Service User Id

Service User Id	Date Of Visit	Scotland
49	24/02/20	
12	24/08/20	
44	20/12/20	
36	15/05/20	
17	09/03/20	
42	10/06/20	
12	28/10/20	
40	25/11/20	
23	04/06/20	
46	29/07/2019	Scotland

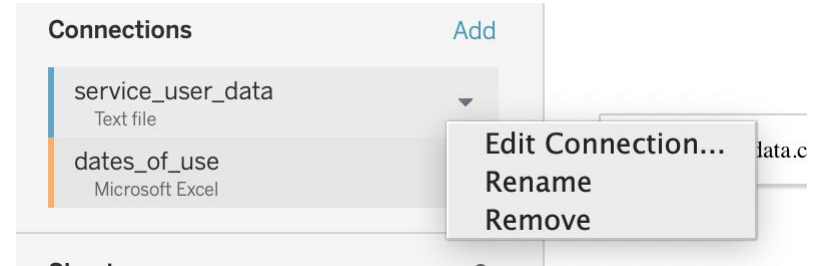
# What happens if the data is refreshed?

- Perhaps changes have been made in underlying data source e.g. the data has been updated
- In workbook right click on the data source and click 'Refresh'.
- If had live data in Tableau Desktop can set refresh frequency.



# What happens if the data is moved?

- May try to refresh the data but the source has been moved e.g. into a different folder on your computer.
- Can 'Edit Connection' to change connection to data if it's moved.



# Further data preparation

# Create calculated fields

- Calculated fields are new columns
- Lots of formulas/functions available that can use.
- Autocomplete list when begin typing.

Column name

Formula

List of formulas

Explanation & example for formula

OutcomeChange

[Outcome Before]-[Outcome After]

The calculation is valid.

Apply OK

All

Enter search text

FLOOR  
FULLNAME  
HEXBINX  
HEXBINARY  
IF  
IFNULL  
IIF  
INCLUDE  
INDEX  
INT  
ISDATE  
ISFULLNAME

IF <expr> THEN <then>  
[ELSEIF <expr2> THEN <then2>  
...] [ELSE <else>] END

Tests a series of  
expressions returning the  
<then> value for the first  
true <expr>.

Example: IF [Profit] > 0  
THEN 'Profitable' ELSEIF  
[Profit] = 0 THEN  
'Breakeven' ELSE 'Loss' END

# Functions for calculating fields

Tableau resource for all functions available [here](#).

Few examples:

- Extract part of text (e.g. to pull out first name, or part of email address).
- Extract part of date (e.g. if want to know what day of week each date is).
- Time difference between 2 dates.



# Let's create some new columns ...

1. Create new column named '*Outcome Change*' which is the difference between '*Outcome After*' and '*Outcome Before*'.
2. Create new column named '*Outcome Change Sign*' which takes value 'Positive', 'Negative' and 'None' depending if the '*Outcome Change*' is a positive, negative or 0.
3. Check if all these new columns are the correct data type and change if not.

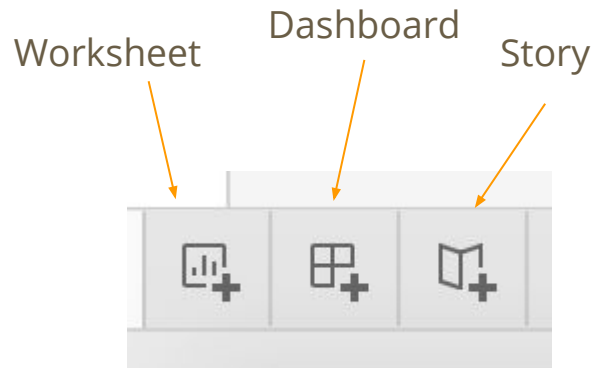
# Worksheets

# Visualising the data

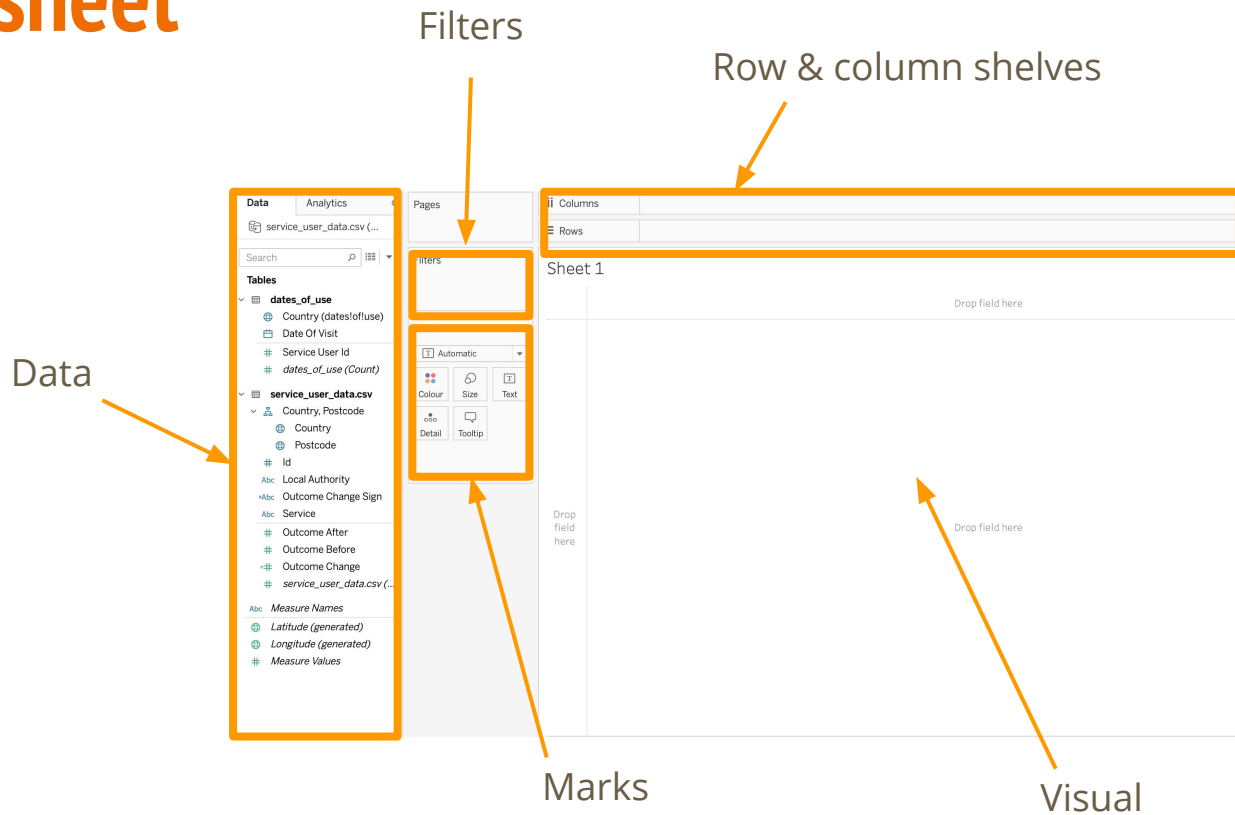
Now we have prepared our data we can visualise the data to gain insights from the data.

# Worksheets, Dashboards & Stories

- **Worksheet** - create 1 visual in a worksheet.
- **Dashboard** - add visuals from worksheets together into a dashboard.
- **Story** - sequence of visualisations/dashboards to convey particular messages and draw attention to particular points in the data.



# Worksheet

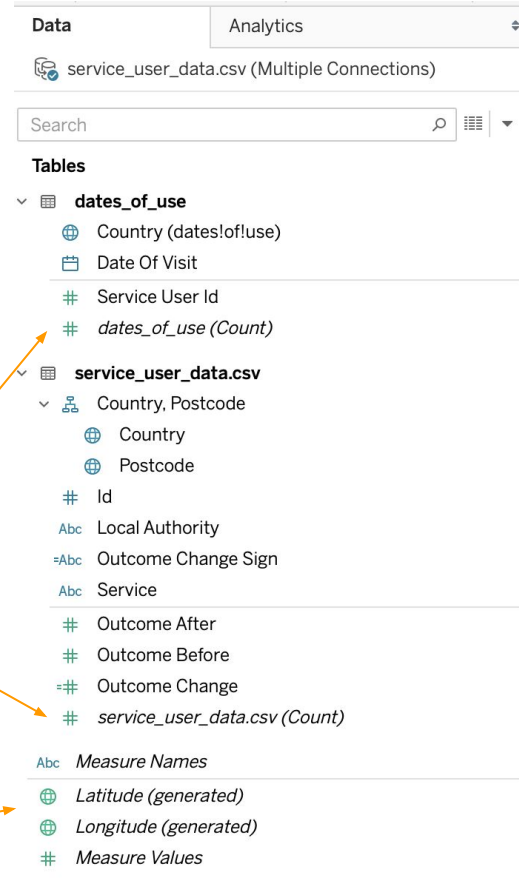


# Worksheet - data

- Split by tables
- Splits further by dimensions (blue) & measures (green) within each table

Auto-generated number of rows of each table - can use these as a measure

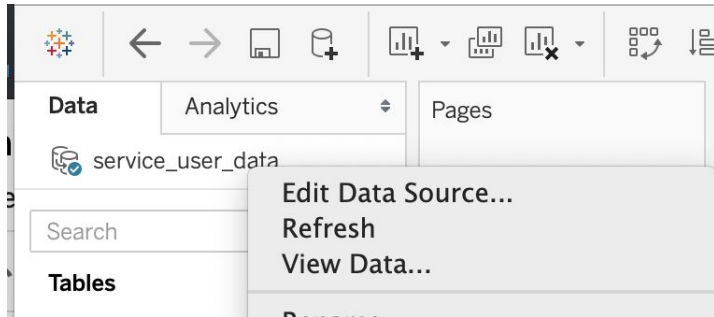
Auto-generated long/lat measures (created if ever have geographic fields)



# Can view data via a worksheet

Don't need to go back to Data Source

View popup of data view



A screenshot of a window titled 'View Data: service\_user\_data'. It shows a table with 983 rows. The table has two columns: 'Date Of Visit' and 'Service User Id'. The 'Show aliases' checkbox is checked. The table data is as follows:

Date Of Visit	Service User Id
24/02/2019	49
24/08/2020	12
20/12/2020	44
15/05/2019	36
09/03/2019	17
10/06/2019	42
28/10/2019	12
25/11/2020	40
04/06/2020	23
29/07/2019	46
28/11/2020	27
13/04/2020	15
04/03/2020	20
18/10/2020	32
17/01/2019	8
01/04/2020	36
20/10/2020	20

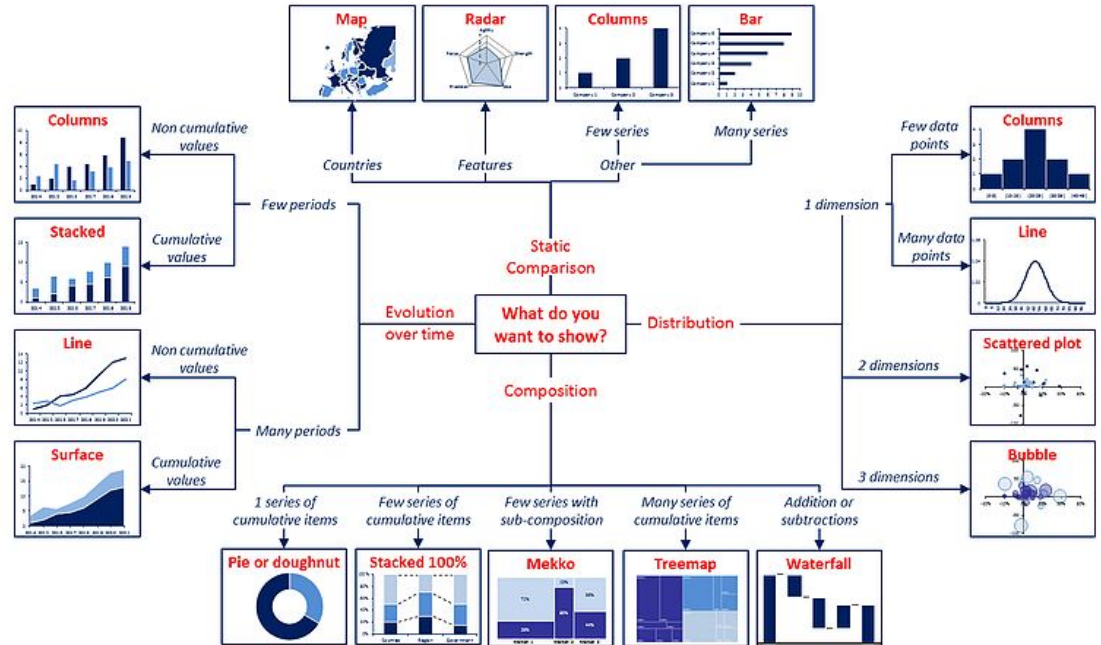
At the bottom of the window, there is a tab labeled 'service\_user\_data.csv' and a status bar indicating '983 rows'.

# Visuals - general

Common charts:

- Line
- Bar (stacked)
- Scatter plot
- Pie chart
- Tree map

More about different charts [here](#).



General recommendations on formatting charts [here](#).



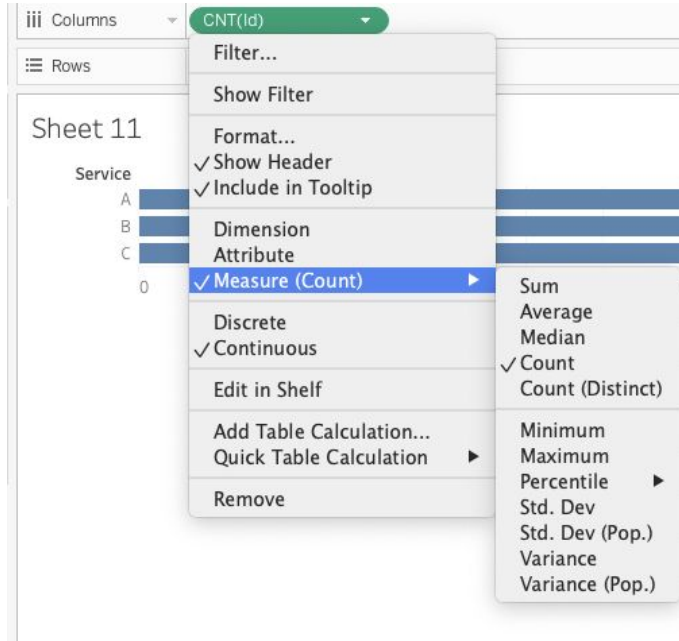
# Building visuals

The basic structure for every view is made of dimension and measure fields placed on the Rows and Columns shelves, and on different properties in the Marks card.

Chose fields want to visualise:

- Can drag fields into column & row shelves
- Can drag fields into visual area
- Can select the fields in the data pane and see suggested charts in 'Show Me'
- Can double click on the fields in the data pane

# Aggregating



- When adding a dimension or measure may look to display an aggregate value e.g. the count of people or the average score.
- Each will have a default measure when bring into the view
- Can change the aggregation type by right clicking on the field (either in the shelf or marks section)

# Types of visuals

Depending on the dimensions & measures chosen to visualise will show which charts may be appropriate.

Greyed out charts are because don't have correct number/combination of dimensions/measures.

See at bottom of pane what the requirements for each type is.

Tableau chart cheat sheet [here](#)



# Marks

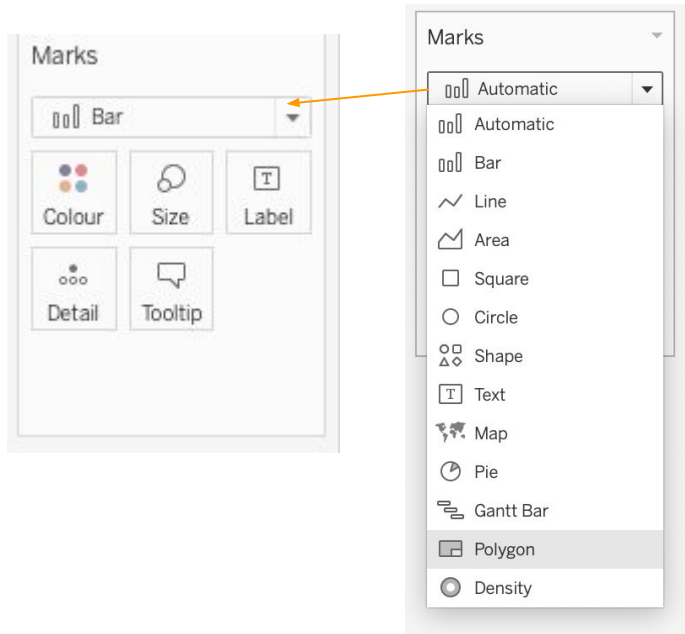


Tableau displays data using marks, where every mark corresponds to a row (or a group of rows)

Can also change the type of marks for the 'Marks' dropdown

Can also control visual via the marks cards (e.g colour, shape, label etc)

- By adding a field onto the card to encode this field using this type of mark
- By clicking on the cards to format the colour, text format etc.

# Aesthetics

## Formatting

**How:** Right click on axis -> 'Format'

**What:**

- Format text size, colour, font, alignment etc.
- Format numeric (decimal points, K/M for thousands/millions, currency, percentage etc.)

## Edit axis

**How:** Right click on axis -> 'Edit axis'

**What:** Edit axis range, title, tick marks etc.

# Reminder - questions we want to answer

1. How do the number of visits differ between services?
2. Where are our users from?
3. How does service usage change over time?
4. How do change in outcomes differ for each service type?



# Let's create some visuals...

- Bar chart of service visits
  - *1. How do the number of visits differ between services?*
- Line chart of visits over time split by service type.
  - *3. How does service usage change over time?*

# Data across time

A hierarchy is created in dates where can drill down to view on a day/week/month/quarter/year basis.

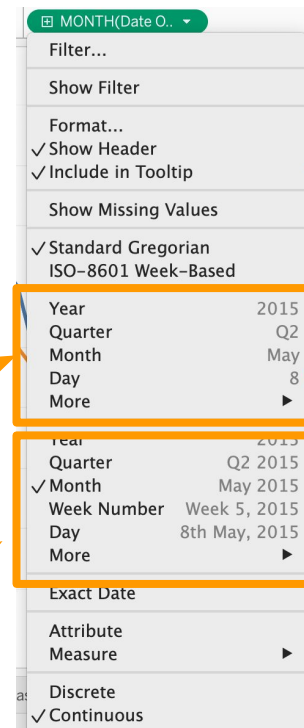
Can also view as dimension or metric view (explained in diagram).

## Treat as categorical/dimension

Will total across all e.g. will total across every Jan in data

## Treat as continuous/metric

Will split e.g. will show count at January in each year in data





# Filtering

# Highlight vs filter

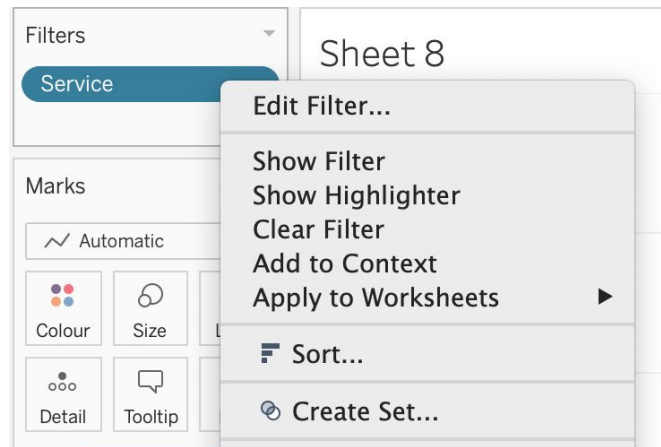
- Move dimension/measure into the filters box
- Right click and can show as filter and/or highlighter

## Filter

- Can be used for creator to subset the data in visual
- Can be used for dashboard user to be able to interact & filter data.
- Combo of both

## Highlight

- A legend works as a legend

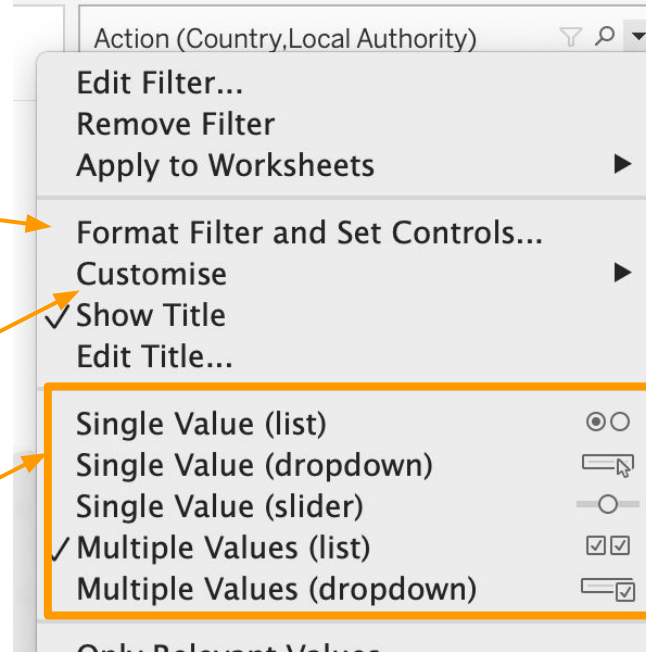


# Format - filters

Formatting e.g. text size, font etc.

Customise e.g. 'Show All' option,  
'Search' option

Different views of filter (dropdown,  
list, slider) and whether can select  
more than 1 value in filter at a time

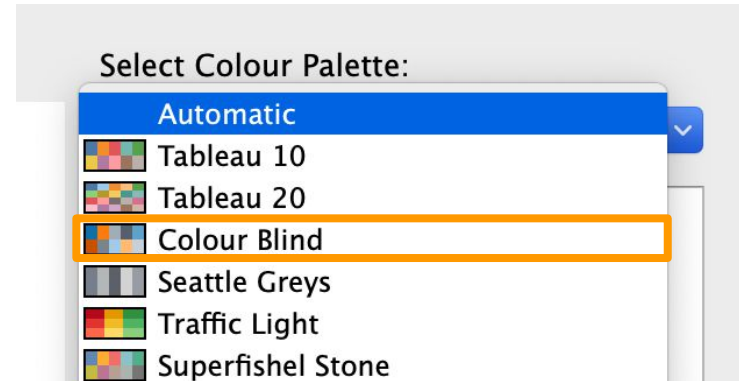
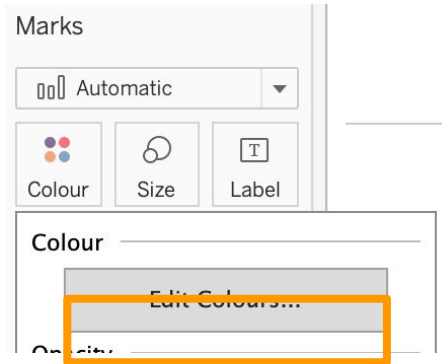


## Let's add a filter...




1. Add a filter that allows the user to filter based on '*Date Of Visit*' in the line chart visual.
2. Add a filter that allows selection of '*Service*' in one of the visuals.
3. Add a filter that allows selection of '*Outcome change sign*' in the outcome change visual.

# Colour-blindness

- The inability of your audience to distinguish colour is a problem if in any visualisations different groups distinguished by colour.
- About 4-5% of the UK population is colour-blind (about 3 million people) so worth considering if your dashboard is to be used publicly.
- Tips on choosing colour-blind friendly palette [here](#).
- Tableau has a built-in colorblind-friendly palette:



# Reminder - questions we want to answer

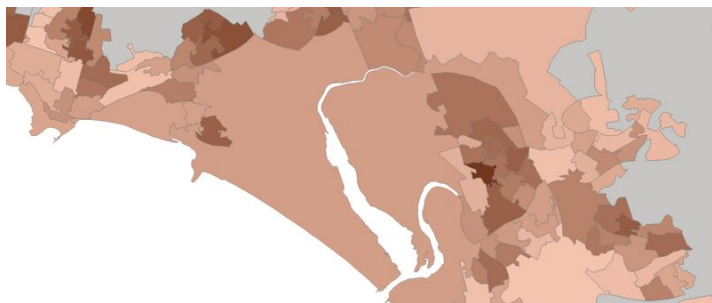
1. How do the number of visits differ between services? 
2. Where are our users from?
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4. How do change in outcomes differ for each service type? 

# Visuals - maps

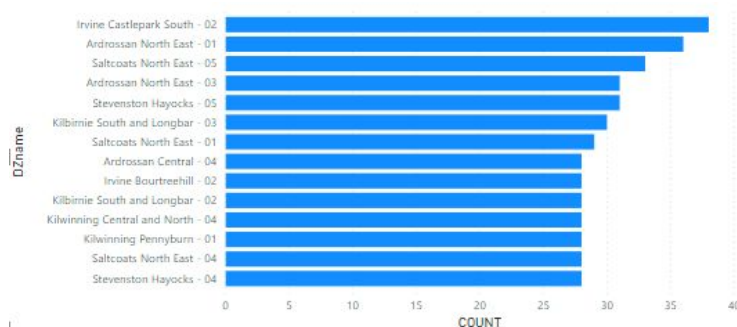
# Maps

- Only use map visual if need the geographic element
- A lot of time isn't necessary but can be tempting because of the geographic element of the data.

## Count of Free School Meals by DataZone - map vs. bar chart



Darker the colour the higher count of meals.

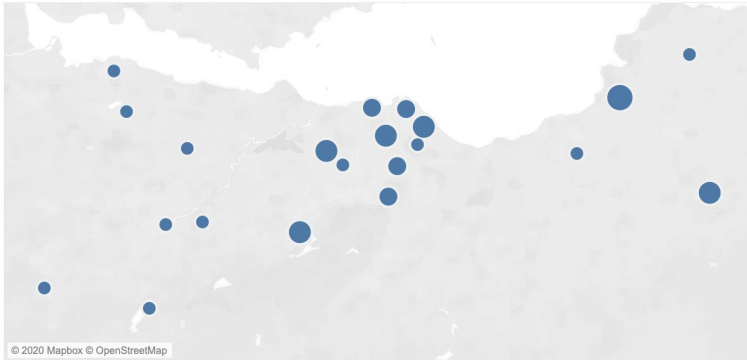




# Different kinds of maps

- **Point map** - points i.e. specific longitude/latitude e.g. postcode or centre of area.
- **Filled map** - enclosed area (polygon)

Postcode map



Size of bubble represents a measure (count of users)

LA map



Colour of area represents a measure (count of users)

# Let's create a map...

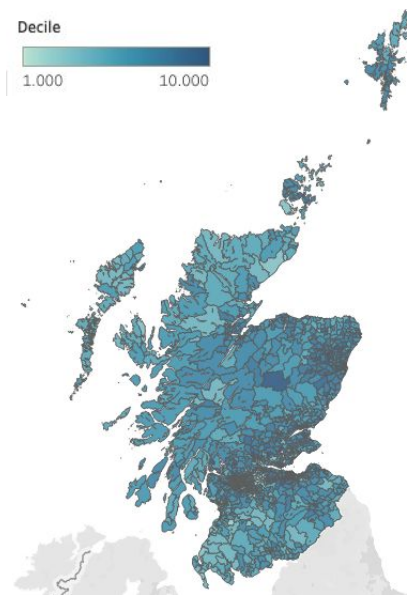
1. Create a map of users by outward postcode - have colour of the area to reflect the number of users.

# Shape file

- Type of spatial file.
- May have custom defined areas e.g. Scottish Government Index of Multiple Deprivation datazones.

## Try in your own time

- How to video for custom shape files [here](#)
- SIMD shapefile (link near bottom of page) [here](#)
- Example dashboard made with SIMD shapefile [here](#)
  - colour of DataZone indicates SIMD Decile



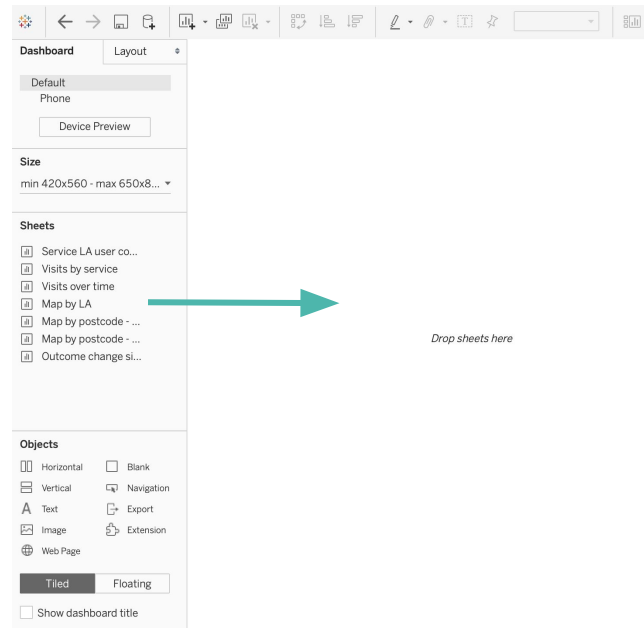
# Dashboard

# Creating a dashboard

Drag sheets into dashboards

Brings filters/highlighters/legends etc too.

Can drag sheets into multiple dashboards



# Additional features

The image shows a 'Objects' menu with the following items:

- Horizontal
- Vertical
- Text
- Image
- Web Page
- Blank
- Navigation
- Export
- Extension

Below the list are two layout options: 'Tiled' (selected) and 'Floating'. At the bottom is a checkbox labeled 'Show dashboard title' which is checked.

Annotations with arrows point to the following features:

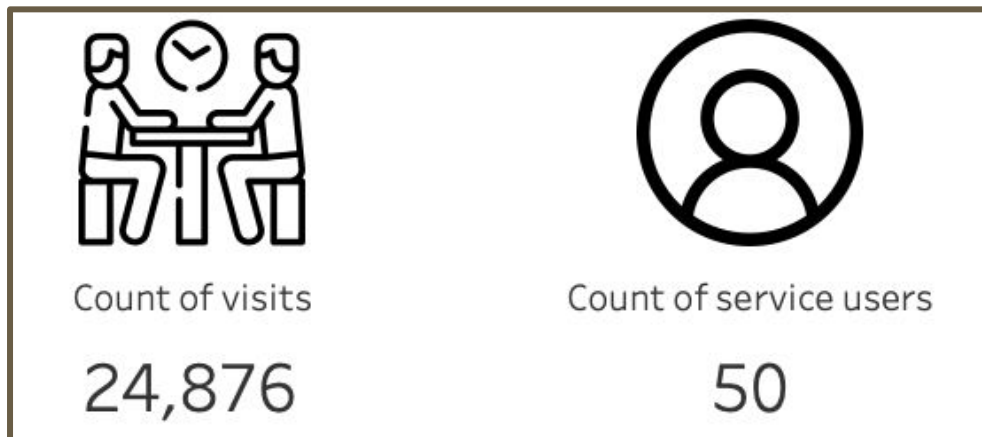
- Text box**: Points to the 'Text' option.
- Upload an image (e.g. organisation logo)**: Points to the 'Image' option.
- Embed a webpage**: Points to the 'Web Page' option.
- Show/hide title**: Points to the 'Show dashboard title' checkbox.
- Insert button to navigate between dashboards**: Points to the 'Navigation' option.
- Insert button to export (can select what kind of file to export to)**: Points to the 'Export' option.
- Floating layout**: Points to the 'Floating' layout option. Description: objects have fixed size and position.
- Tiled layout**: Points to the 'Tiled' layout option. Description: objects adjust in size based on objects around them.

# Summary tiles

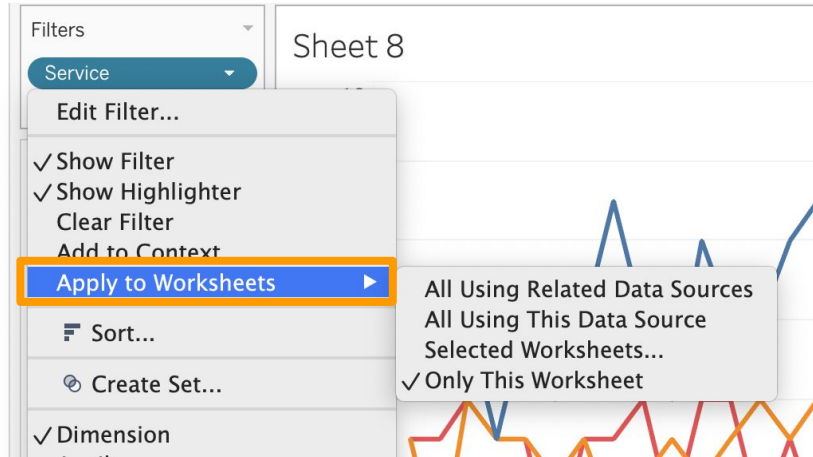
Can add high level numbers to your dashboard, and can sometimes help to add icons to aid with the visualisation of the numbers.

This blog explains how to make summary tiles [here](#).

An example of 2 summary tiles could have added to our dashboard following the steps in the link above:



# Filter - what does it apply to?

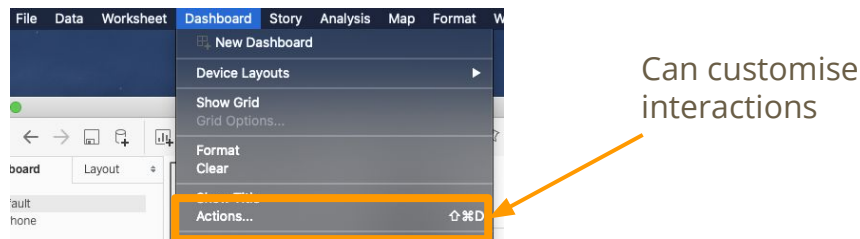
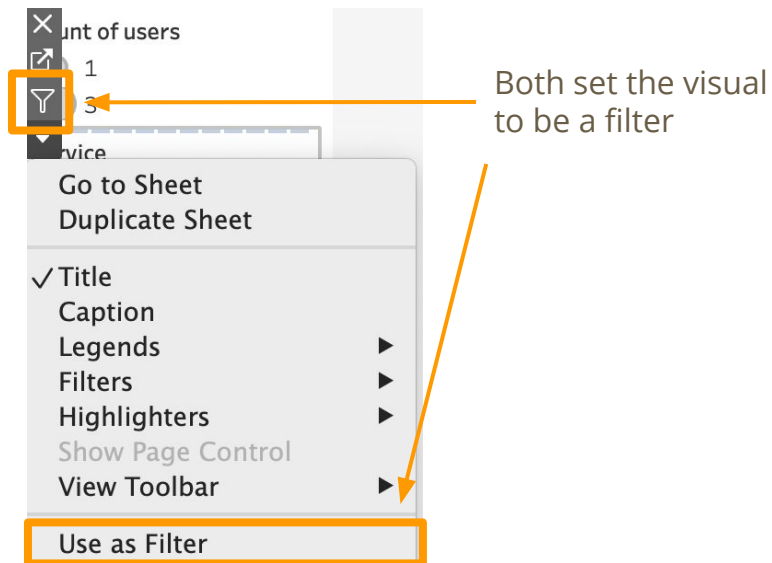


- Can specify if want filter to only apply to the worksheet visual. When move into dashboard will only apply to this visual.
- Can specify want filter to apply to any visuals using the source of data which filter is based on.



# Interactions between visuals

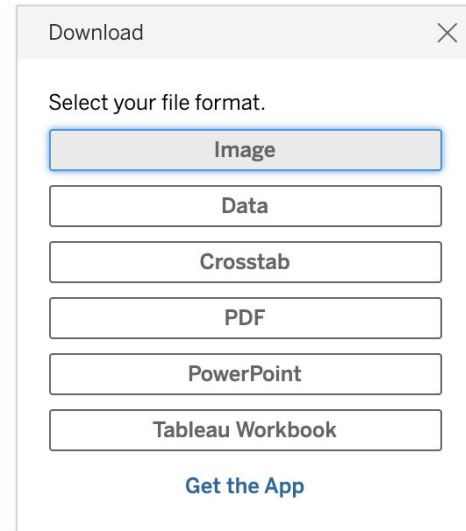
- Can use visuals as filters for other visuals (or full dashboard)
- Default is that visuals not interacting so need to specify if want this functionality
- Can use shortcuts on the visual to set as filter for full dashboard
- If want to be more specific and customise interaction



**Exporting/sharing view**

# Static view for reports

Export to Tableau Public -> Open Worksheet -> Bottom right hand corner



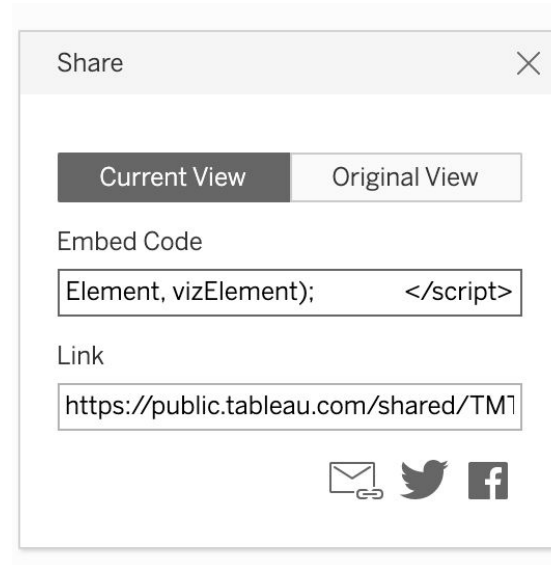
# Share link or embed view

Export to Tableau Public -> Open Worksheet -> Bottom right hand corner



You can embed interactive Tableau views and dashboards into web pages, blogs, wiki pages, web applications, and intranet portals.

More info [here](#).

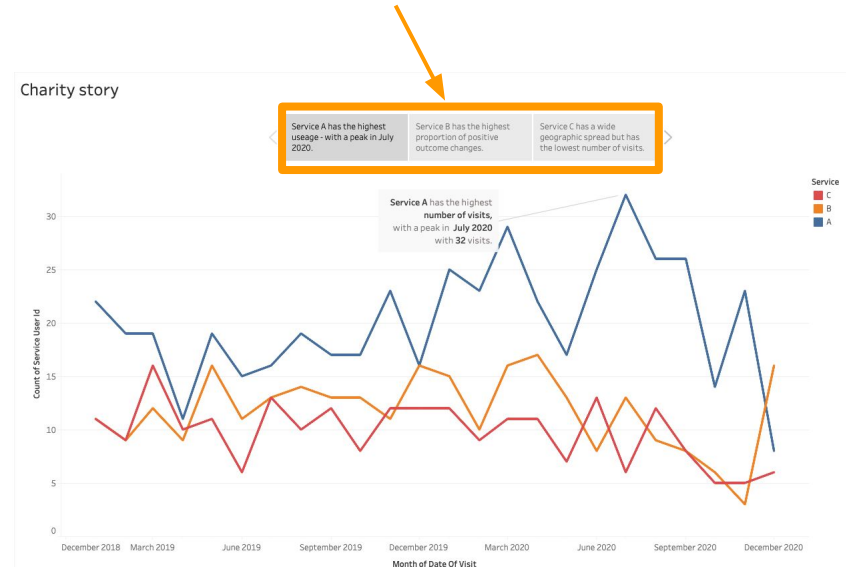


**Story**

# Story

- A sequence of visualisations to convey particular messages and draw attention to particular points in the data.
- Can annotate and set particular filters/highlight to show a message.
- Example story based on report we built [here](#).

Can create messaging to highlight insights for each visual in the story



# Tips for data viz & dashboards

# Tips

## General data viz tips

- No 3D charts - they can skew perception of the visualisation.
- Keep chart and graph headers simple and to the point.
- Make sure have labels on graph axes - including units!
- Don't overdo the colours - each colour should have a purpose as can be distracting otherwise.
- Keep consistent with font type and size.
- Be consistent with colours throughout dashboard to build association (e.g. blue for service A, green service B etc.).
- Be careful with axes on graphs - usually best to start at 0 so not misleading.
- If showing numbers with decimal points, round to 1 or 2 decimal points depending on the level of detailed required.
- Every graph should have a purpose - people get saturated quickly with too much info. What is the objective of your graph and how can it create value for your organisation?
- Often bar charts can be useful to order of highest to lowest (unless some other ordering is important - such as alphabetical).
- Can use icons to add to the aesthetics (websites such as [Flaticon](#) great resource for these)

## Dashboard tips

- Simple is better.
- Put the most important information in the top left-corner.
- Don't highlight everything, or nothing will stand out.



# Resources

# Useful resources for learning Tableau



Free online courses



Full tutorials and short quick  
fix videos



Tableau learning

add a new column tableau

About 2,710,000 results (0.56 seconds)

**Answer**

1. Select Analysis > Create Calculated Field.
2. Name the field NULL, enter a calculation similar to the following, then click OK: IF FALSE THEN 0 ELSE NULL END.
3. Drag [NULL] onto the view where blank space is desired.
4. Right-click on the header and select Edit Alias...
5. Replace "NULL" with " " and click OK.

12 Feb 2018

kb.tableau.com > articles > howto > adding-blank-colu... ▾

[Adding a Blank Column to the View | Tableau Software](#)

About Featured Snippets Feedback

help.tableau.com > current > pro > desktop > en-us > ca... ▾

[Add a Calculated Column to a View - Tableau](#)

Version: 2020.2. Applies to: Tableau Desktop, Tableau Public. Sometimes, columns in your text table do not allow you to display the results of certain ...

[Create the necessary ...](#) - [Format the calculated fields](#)

**People also ask**

How do you add two columns in Tableau? ▾

How do I add a percentage to a column in Tableau? ▾

How many columns can you have in tableau? ▾

Feedback

community.tableau.com > thread ▾

[Creating New Columns |Tableau Community Forums](#)

What I'm ultimately trying to do is add a column to my viz that sums up the other columns that meet 2 conditions. I cant post my viz since since its ...

<a href="#">How to add a new column in tableau (Row ID) whi ...</a>	13 posts	15 Apr 2015
<a href="#">Adding new columns to worksheet with calculatio ...</a>	13 posts	2 Sep 2015
<a href="#">Adding Columns to Rows in Sheet  Tableau Community ...</a>	7 posts	10 Jan 2017
<a href="#">How to add column to show the difference of two ...</a>	15 posts	4 May 2017

[More results from community.tableau.com](#)

9 Jan 2018 - 11 posts - 4 authors

**Tableau knowledge base** - step by step help/instructions by Tableau

**Tableau Help** - step by step help/instructions by Tableau

**Tableau Community Forum** - a help forum where can post questions and other Tableau users answer

Can click here for search results solely from community forum

# Data to play with...

- UK Data Service [here](#)
- Scot Gov. SIMD data [here](#)
- Create fake data at Mockaroo.com [here](#)
- Scottish Gov. Open data [here](#)
- UK Gov. Open data [here](#)

**Thank you**

# Contact

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LinkedIn: <https://uk.linkedin.com/in/aileenmcdonald>

Scottish Charity Search app: [here](#)