



Tableau Workshop

July 31, 2019 – Addis Ababa University

Data Visualization Workshop using Tableau

31st July and
1st August, 2019

Organizer

Center for Global Data Visualization (CGDV) by QED Group



The workshop introduces the process of making data visualizations to give informative insights in International Development.

Dates: Wednesday, 31st July and Thursday, 1st August, 2019

Time: 9AM to 11:50AM

Venue: Addis Ababa University
School of Information Science
CBE(FBE) Campus, Eshetu Chole Building
1st Floor, Room 124

For more information, contact:

jxu@qedgroupllc.com
yacob.zuriaw@emory.edu

Co-Organizers

Addis Ababa University
Emory University, Laney Graduate School, Master's in Development Practice



EMORY | LAN EY
GRADUATE
SCHOOL

Master's in Development Practice



**QED Group brings
more than 20 years
providing data-driven
and insightful solutions
in nearly 100 countries.**

Working across the “three Ds” of foreign affairs;
Defense, Diplomacy and Development,
QED helps their clients collect, analyze, visualize,
and ultimately use data in more effective ways.

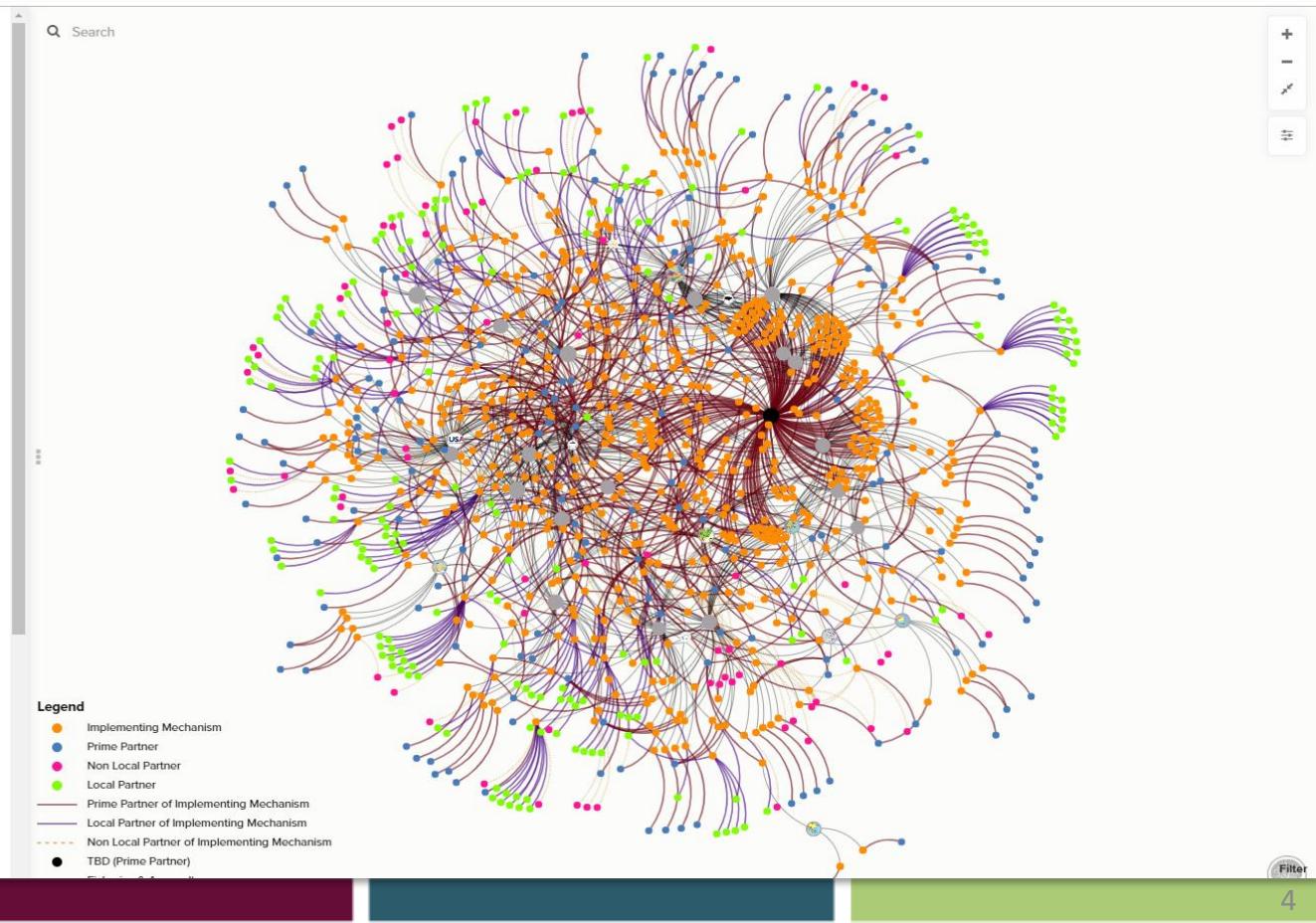


The map is an overview of active Feed the Future mechanisms funded by US Missions globally. The information displayed is from the Feed the Future Monitoring System (FTFMS) database. It provides information on the different FTF partners that are implementing mechanisms, their connections, project summary, location of activities and life of project.

Instructions

You can navigate through the map using the icons on the top right side of the map.

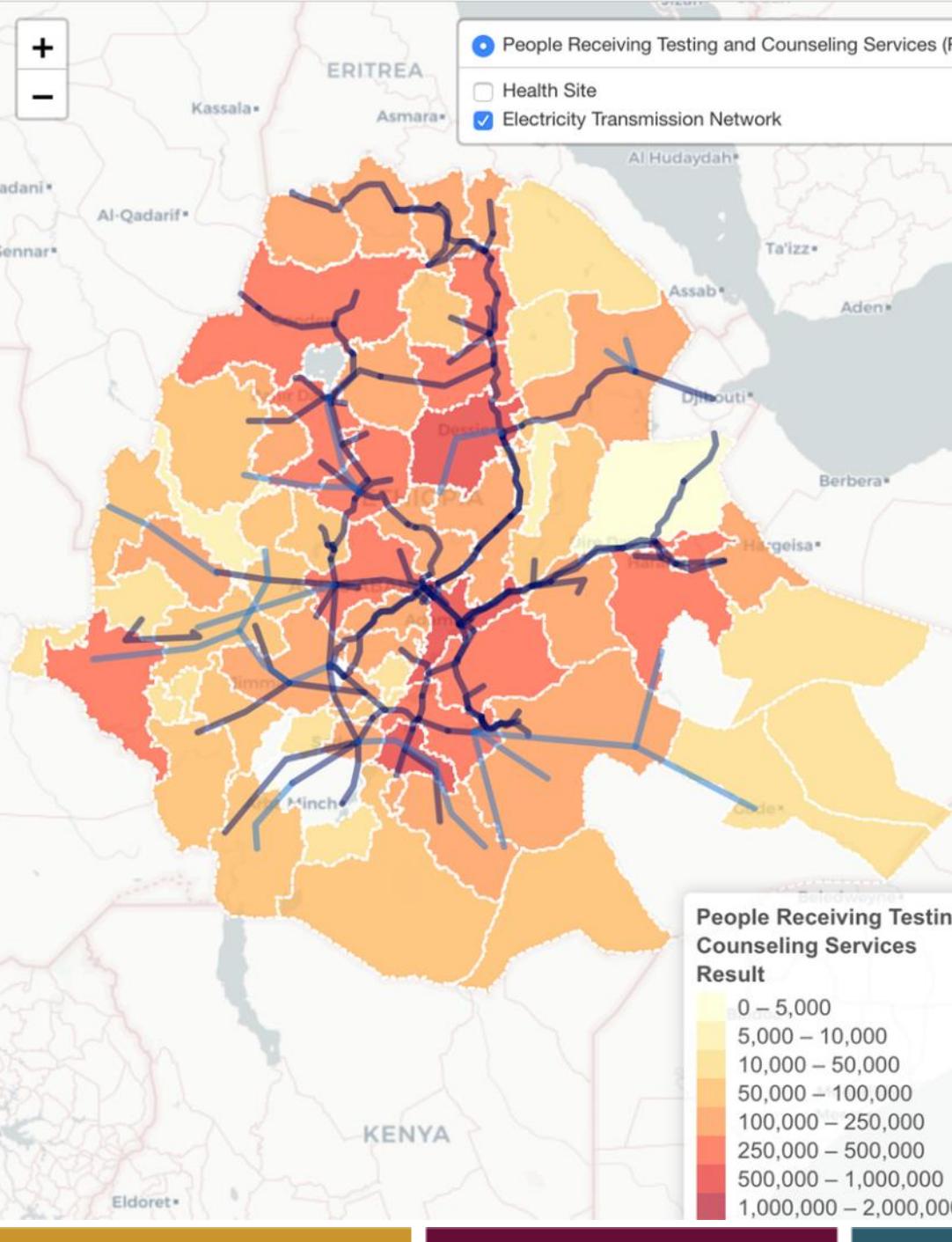
- Use the + (plus) and - (minus) sign to zoom in and out.
- You can filter the different elements/nodes and their connections in the map by clicking on “Filter” on the bottom right and select the elements from the drop down menu.
- To view connections for a particular Mission, select the country name from the Default view drop down menu next to the title.
- If you would like to focus on the connections of a particular node/element, click and hold the specific node. To clear the focus click on the icon that looks like the image below:





Data, Technology and Innovation





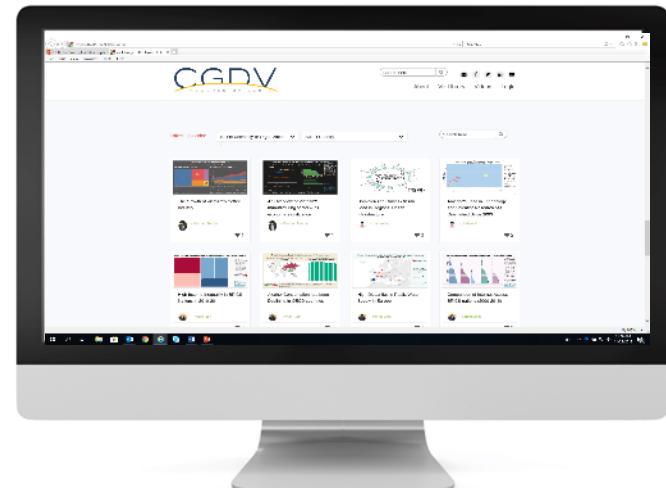
QED offers:

- Human-centered design
- Data analysis
- Data visualization
- Network mapping
- Infographics



CENTER FOR GLOBAL DATA VISUALIZATION

- Designed to **build data visualization capacity** and strengthen a **culture of data use** in international development
- Mobilizes the **power of university students** to close the gap in data visualization
- Collaborating universities will have access to **trainings** and can **publish research** on the CGDV platform





CENTER FOR GLOBAL DATA VISUALIZATION

- Visit our GitHub and find out public available data source
- [https://cgdv.github.io\(dataSource/](https://cgdv.github.io(dataSource/)

/ CGDV Recommended Data Sources

CGDV promotes open data for public good. We recommended the following data sources for researching and creating data visualizations. Please let us know if there is more to be added to the list.

- [Development Data Library \(DDL\)](#): Your gateway to USAID-funded, machine-readable data.
- [IDEA](#): International Data & Economic Analysis by USAID.
- [DEC](#): Development Experience Clearinghouse by USAID.
- [PEPFAR](#): Program results achieved through PEPFAR support.
- [CDC](#): Centers for Disease Control and Prevention.
- [FOREIGN ASSISTANCE](#): How the U.S. government invests in countries around the world.
- [DHS](#): The DHS Program: Demographic and Health Surveys.
- [DATA.GOV](#): The home of the U.S. Government's open data.
- [UNSD](#): United Nations Statistics Division

- [World Bank Open data](#): Free and open access to global development data.
- [IMF data](#): Access to macroeconomic & financial data.
- [OECD data](#): Data about OECD countries.
- [Humanitarian Data Exchange](#): Find, share and use humanitarian data all in one place
- [Google Public Data](#): Google's Public Data Explorer
- [UNICEF data](#): Monitoring the situation of children and women.
- [Global Health Observatory data repository](#): WHO's gateway to health-related statistics for more than 1000 indicators for its 194 Member States.
- [WHO/UNICEF JMP](#): The WHO/UNICEF JMP collects data on water, sanitation and hygiene in countries and regions around the world.
- [UNAIDS AIDSinfo](#): Data about HIV prevention, treatment, care and support.

Latest Uploaded | ❤️Upvote |

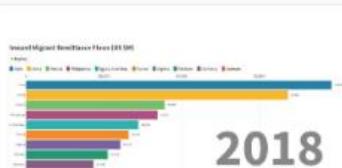
Select University or Organization

Select Country

Search here ...



Select Challenge



Top 10 Countries by Remittance Outflows & Inflows



- Reema Rustagi



Prevalence and Attitudes of FGM in Ethiopia



- Yacob Zuriaw



Tracking the Ebola Outbreak in the DRC



- Jiahao Xu



Ethiopia's Shrinking Gender Gap in Education



- Yacob Zuriaw



Antenatal Care in Uganda



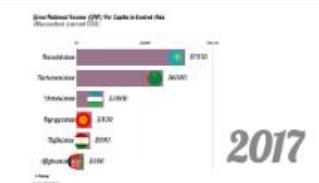
- Jiahao Xu



Household Access to Safe Drinking Water in Ethiopia



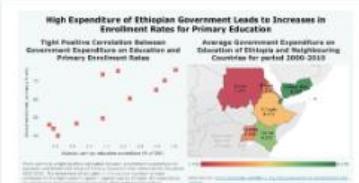
- Yacob Zuriaw



The Growth of Gross National Income in Central Asia from 1995-2017



- Jiahao Xu



High Expenditure of Ethiopian Government Leads to Increases in Enrollment Rates for Primary



- Prachi Jain





CENTER FOR GLOBAL DATA VISUALIZATION – User Profiles

- <https://www.centerforglobaldata.org/>
- Sign up for an account
- Create your own profile!



Yacob Zuriaw

Email: yacob.zuriaw@emory.edu

Mobile:

Country: United States

Organization: Emory University

Biography:

Hi, I'm Yacob! I am a recent grad of the Master's in Development Practice program at Emory University. I have a background in Microeconomics and International Relations, and am interested in applying data insights to aid the path of progress in Ethiopia and beyond.

What is Tableau?



What is Tableau?

- Tableau Desktop is a business intelligence and data visualization tool that can be used by anyone.
- It specializes in transforming tabulated data into eye-candy graphs and representations.
- Although designed with business in mind, its ability to interactively visualize data freely transcends fields





What is Tableau?

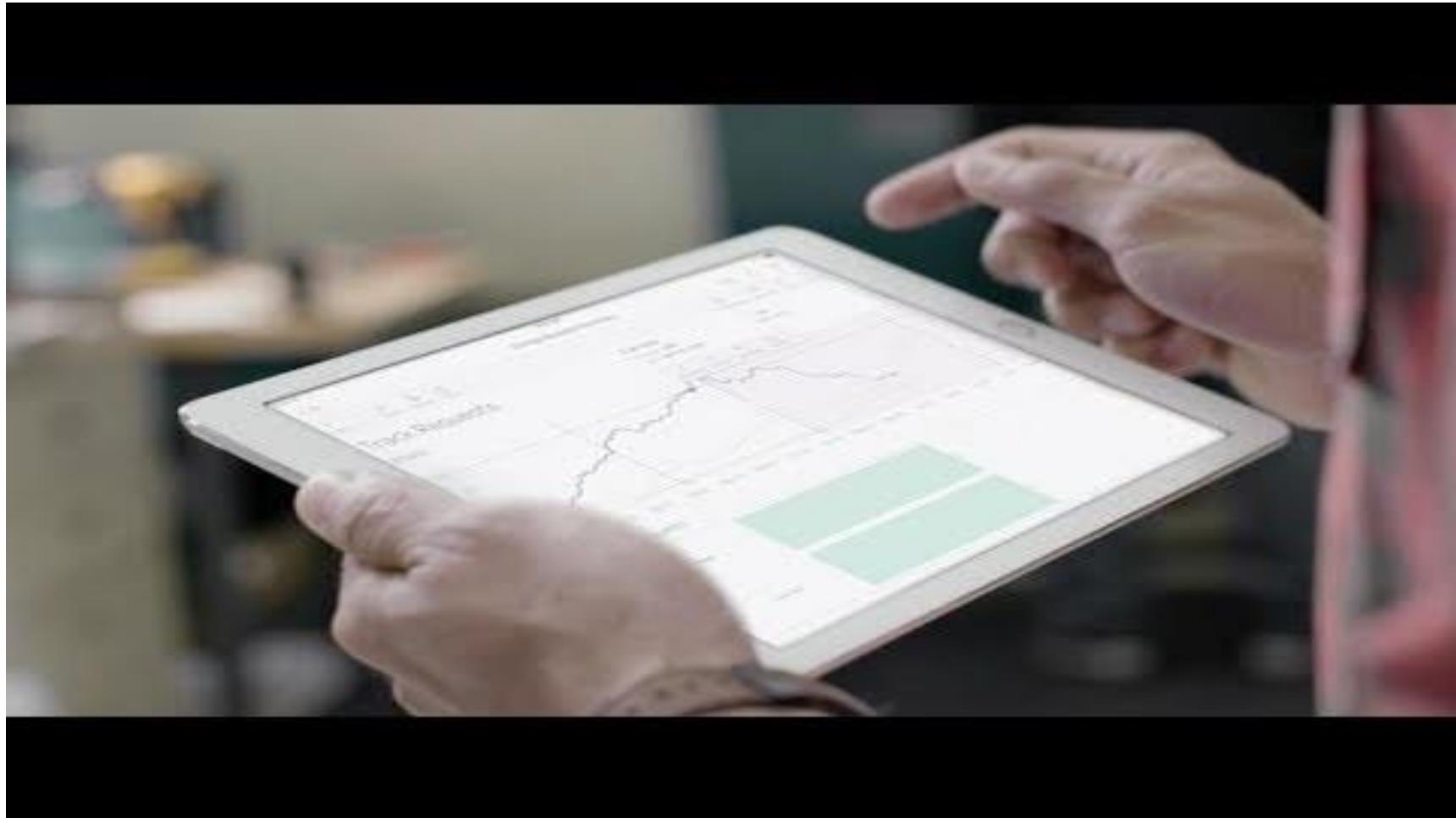




Tableau vs. Excel

Tableau vs. Excel:



- People are often confused between Tableau and Microsoft Excel. Both these tools can be used to create interactive visualizations and have the tools to analyze data. But the approach each of these tools uses to reach the insights is very different.
- Tableau is a data visualization tool, meaning that it formats data in the initial stage into pictorial representations. When users drill down the data, the representations change accordingly. Excel, on the other hand, needs the user to first analyze data in tabular format and then opt for visualizations for better understanding and insights.

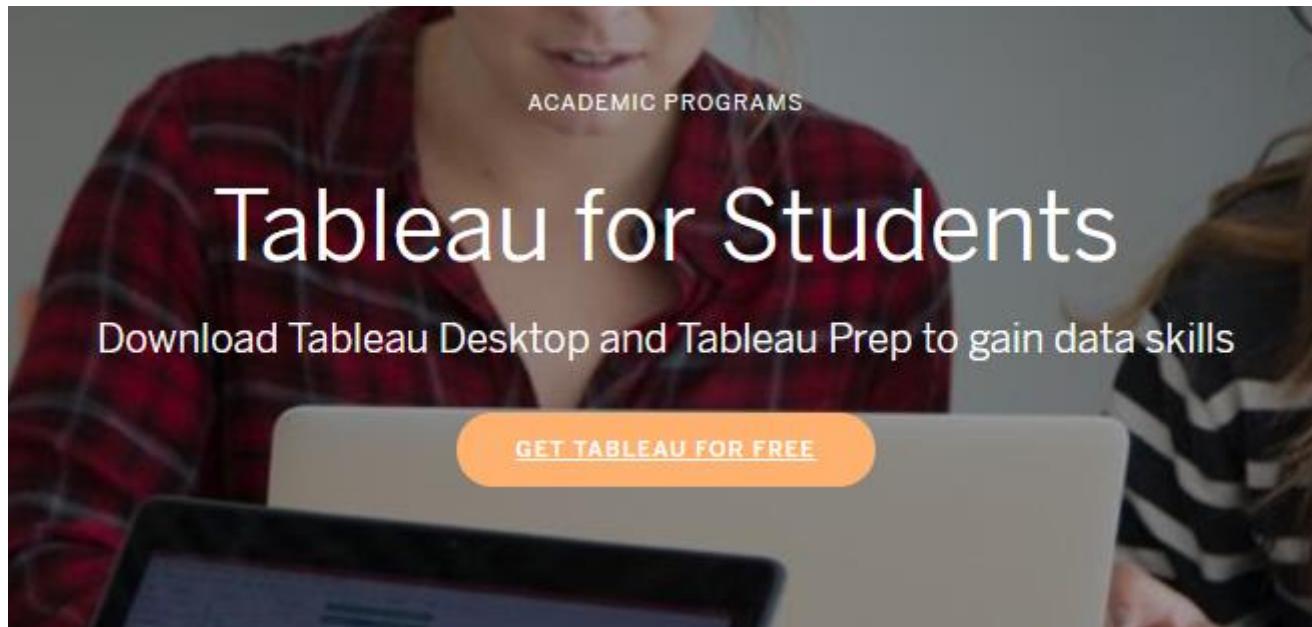
Tableau Installation



Tableau Installation

- Tableau Academic Program:

www.tableau.com/academic/students





Verify Your Student Identity

You will receive an email from Tableau with instruction of how to download and activate Tableau

Country
Country (of school)*
Ethiopia

Personal information

Legal First Name*
Legal First Name

Legal Last Name*
Legal Last Name

Email*
Email

Confirm Email*
Confirm Email

School information

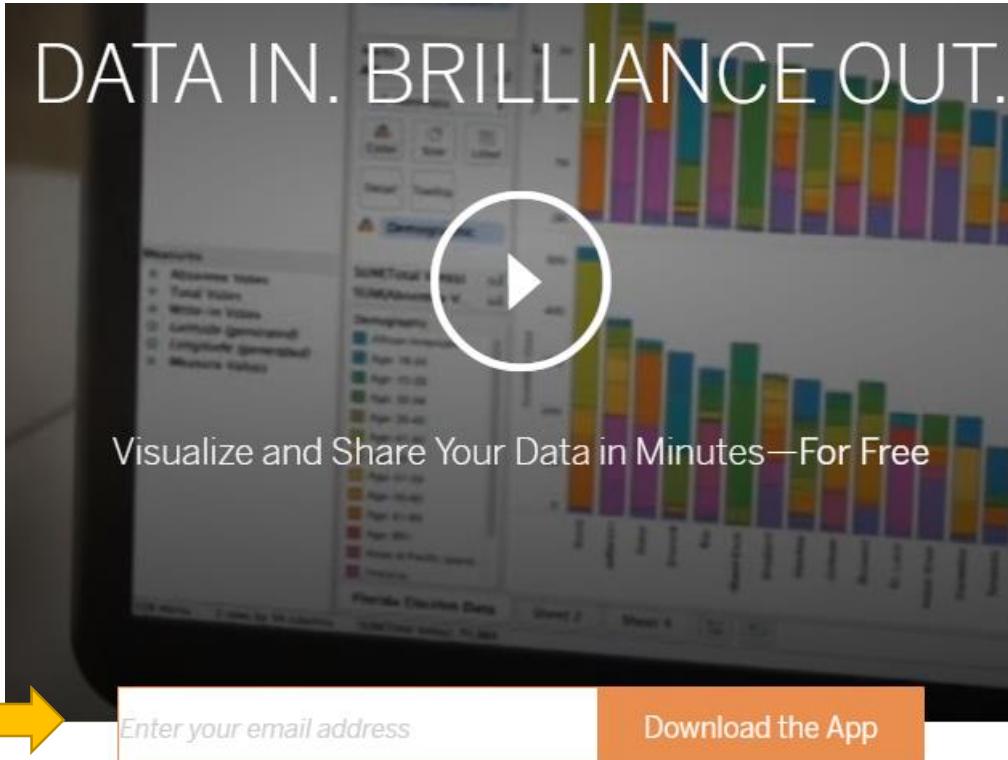
School Name*
School Name

VERIFY AND CONTINUE



Tableau for Public

- Tableau Public: public.tableau.com



The screenshot shows the Tableau Public homepage. At the top, it features the slogan "DATA IN. BRILLIANCE OUT." above a play button icon. Below this, there's a bar chart and a list of data sources. A large orange button at the bottom right says "Download the App". A yellow arrow points from the text "Enter your Email" on the left to the email input field on the right. The footer includes links for "Available for Windows and Mac" and "Privacy Policy".

DATA IN. BRILLIANCE OUT.

Visualize and Share Your Data in Minutes—For Free

Enter your Email address

Download the App

Available for Windows and Mac | Privacy Policy

Enter
your
Email



Create Tableau Public Profile to Share Your Work

- Tableau Public: public.tableau.com
- Right upper corner: 
- Create profile

+tableau⁺public

Email

Password

Keep me signed in

Sign In

[Forgot your password?](#)

Create



Don't have a profile yet?
[Create one now for free](#)

Create a Profile X

Name

Real names are important to us and build a sense of community.

Email

Use your email to sign in to Tableau Public. Nobody sees this but us. We promise never to rent, sell, or barter your personal information to anyone.

Password

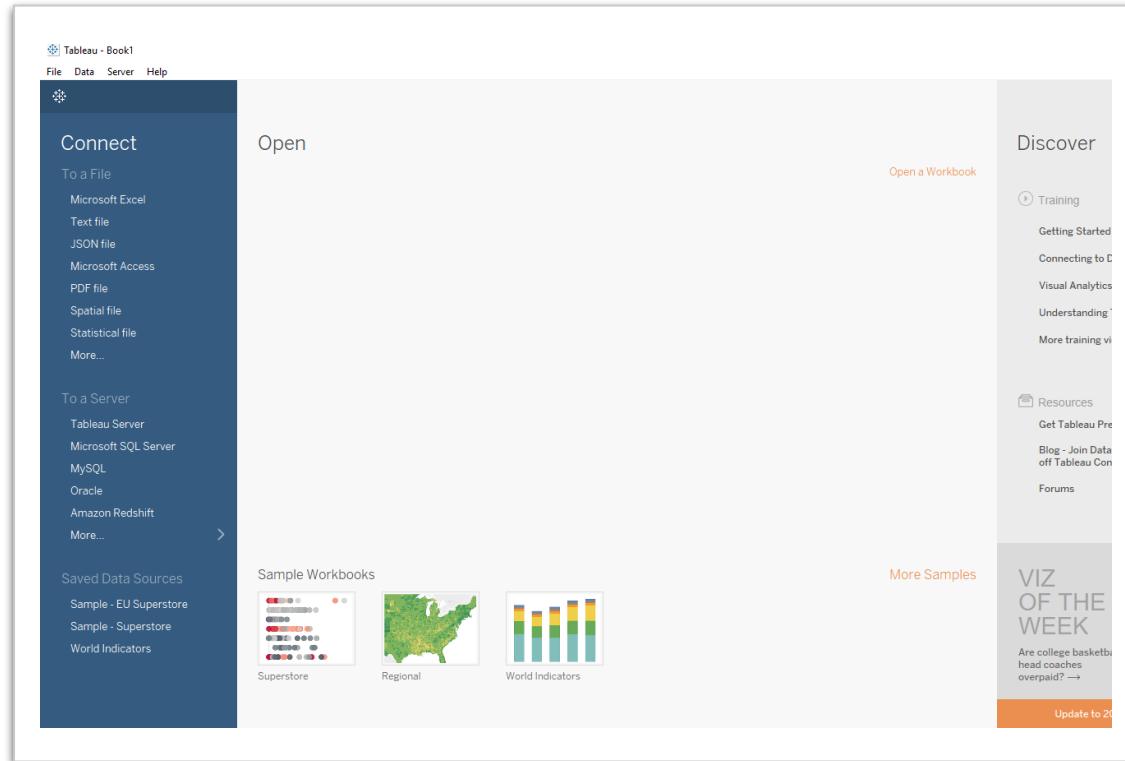
Must be a minimum of 8 characters and contain alphabetic, numeric and special characters.

Confirm

[Review the Legal](#)

I've read and agree to the Terms of Service

[Create My Profile](#)



Open Tableau!

If you see above picture, you are ready to go!

Build Your Own Data Visualization in Tableau

Ethiopia HIV Prevalence



Data

- Understand data and make data useful



Visualize

- Choose the right visualization format



Share

- Share your work for public good

Today:

- Data cleaning

Today:

- Line chart
- Choropleth map
- Dashboard

Tomorrow:

- Publish to Tableau public
- Share on CGDV



About the Data



UNAIDS

- HIV Prevalence in Ethiopia from 1992 to 2017
- Population: Adult Age 15 - 49
- Data source: UNAIDS
- aidsinfo.unaids.org
- Example data:
<https://github.com/CGDV/CGDV.github.io/tree/master/workshop/Tableau/data>



Data Cleaning

- **Tidy Data** (by Hadley Wickham)
 1. Each **variable** is stored in its own **column**
 2. Each **observation** is stored in its own **row**
- **Why Tidy Data?**
 1. Easy to access variables
 2. Automatically preserves observations
 3. Data is quickly excluded during filtering

	A	B	C	D	E	F	G	H	I	J
1	Region	1992	1993	1994	1995	1996	1997	1998	1999	2000
2	Addis Ababa	8.6	9.8	10.8	11.6	12.1	12.3	12.2	12	11.5
3	Afar	3.5	3.9	4.3	4.6	4.8	4.9	4.9	4.8	4.6
4	Amhara	3.4	3.9	4.3	4.6	4.9	5	5	4.9	4.7
5	Beneshangul Gumuz	1.4	1.7	1.9	2.1	2.3	2.4	2.5	2.5	2.5
6	Dire Dawa	6.5	7.3	8	8.6	9	9.3	9.3	9.2	8.9
7	Gambella	5.6	6.8	7.9	9	9.7	10.2	10.5	10.6	10.3
8	Harari	4.8	5.4	5.9	6.3	6.5	6.5	6.4	6.2	5.8
9	Oromiya	1.6	1.8	2	2.2	2.3	2.3	2.4	2.3	2.2
10	SNNPR	0.5	0.6	0.7	0.8	0.8	0.9	0.9	0.9	0.9
11	Somali	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5
12	Tigray	3.4	3.9	4.4	4.8	5	5.2	5.2	5	4.8
13	National	2.6	2.9	3.2	3.4	3.6	3.6	3.6	3.5	3.4



	A	B	C
1	Region	Year	HIV Prevalence
2	Addis Ababa	1992	8.6%
3	Afar	1992	3.5%
4	Amhara	1992	3.4%
5	Beneshangul Gumuz	1992	1.4%
6	Dire Dawa	1992	6.5%
7	Gambella	1992	5.6%
8	Harari	1992	4.8%
9	Oromiya	1992	1.6%
10	SNNPR	1992	0.5%
11	Somali	1992	0.4%
12	Tigray	1992	3.4%
13	National	1992	2.6%
14	Addis Ababa	1993	9.8%
15	Afar	1993	3.9%
16	Amhara	1993	3.9%
17	Beneshangul Gumuz	1993	1.7%
18	Dire Dawa	1993	7.3%
19	Gambella	1993	6.8%
20	Harari	1993	5.4%
21	Oromiya	1993	1.8%
22	SNNPR	1993	0.6%
23	Somali	1993	0.4%
24	Tigray	1993	3.9%
25	National	1993	2.9%



Import Data to Tableau

Tableau - Book1

File Data Server Help

Connect

To a File

- Microsoft Excel **1** (highlighted with a yellow arrow)
- Text file
- JSON file
- Microsoft Access
- PDF file
- Spatial file
- Statistical file
- More...

To a Server

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

Saved Data Sources

- Sample - EU Superstore
- Sample - Superstore
- World Indicators

Sample Workbooks

- Superstore
- Regional
- World Indicators

Discover

Open a Workbook

Training

- Getting Started
- Connecting to Data
- Visual Analytics
- Understanding Tableau
- More training videos...

Resources

- Get Tableau Prep
- Blog - Applications are open! Why you should apply today to speak at TC19

Forums

Open

Name: HIV Prevalence Clean Date modified: 4/1/2019 4:05 PM Type: Microsoft Excel Workbook Size: 17 KB

Name: HIV Prevalence Raw Date modified: 4/1/2019 5:14 PM Type: Microsoft Excel Workbook Size: 14 KB

Organize New folder

Quick access

- Desktop
- Downloads
- Documents
- Pictures
- clean
- data
- Data Viz Tutorial
- raw

OneDrive - The QED

- This PC
- Network

File name: HIV Prevalence Clean Excel Workbooks (*.xls *.xlsx *.xl*) Open Cancel

VIZ OF THE WEEK

Are college basketball head coaches overpaid? →

Update to 2019.1.2 Now

25



Choose Right Data Type

Sort fields Data source order

Abc	#	#
HIV	HIV	HIV
Region	Year	HIV Prevalence
Addis Ababa	1992	0.086000
Afar	1992	0.035000

Region

Abc	#	#
HIV	HIV	HIV
Region	Year	HIV Prevalence
Addis Ababa	1992	0.086000
Afar	1992	0.035000
Gambella	1992	0.034000
Harari	1992	0.014000
Oromiya	1992	0.065000
SNNPR		
Somali		
Tigray		
National		
Addis Ababa		
Afar	1993	0.039000
Amhara	1993	0.039000

Region

Year

Year

#	#
Number (decimal)	
Number (whole)	
Date & Time	
Date	35
String	34
Boolean	14
Default	65
Geographic Role	0.56



280 ● CHART A
158 ● CHART B
118 ● CHART D
139 ● CHART D



Lorum ipsum dolor sit amet, consecetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci

Lorum ipsum dolor sit amet, consecetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci

Let's Visualize Data!



Lorum ipsum dolor sit amet, consecetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci





Tableau 101



- Sheet < Dashboard < Story
- Sheet: Single visualization
- Dashboard: Multiple sheets
- Story: Multiple sheets + dashborads

Tableau 101

Dimensions vs Measures

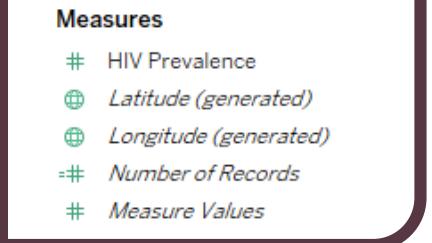
Dimensions:

- Level of detail
- How to want to separate data?
(location, date...)



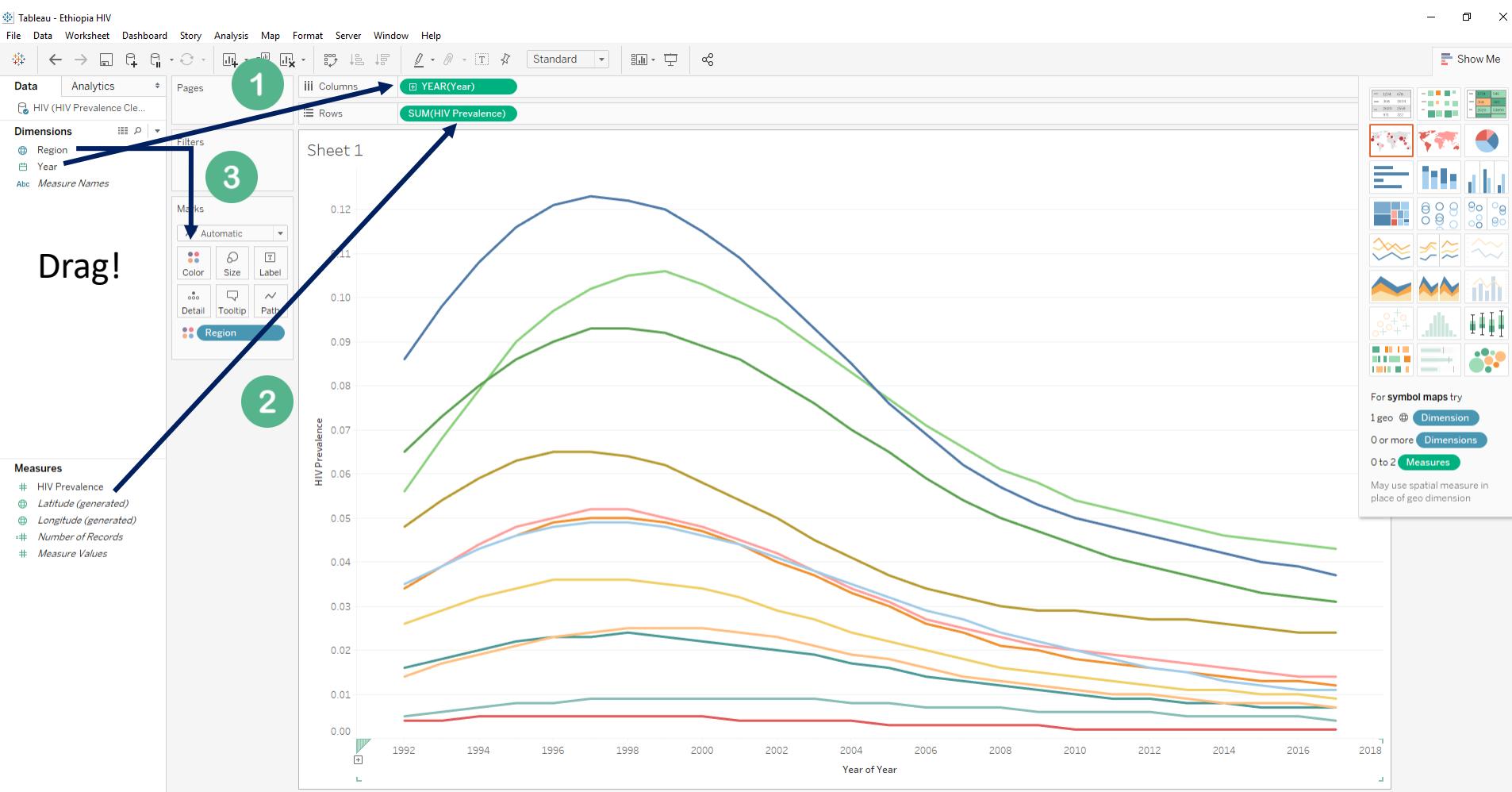
Measures

- Aggregation
- How to want to calculate data?
(Average, count, ...)





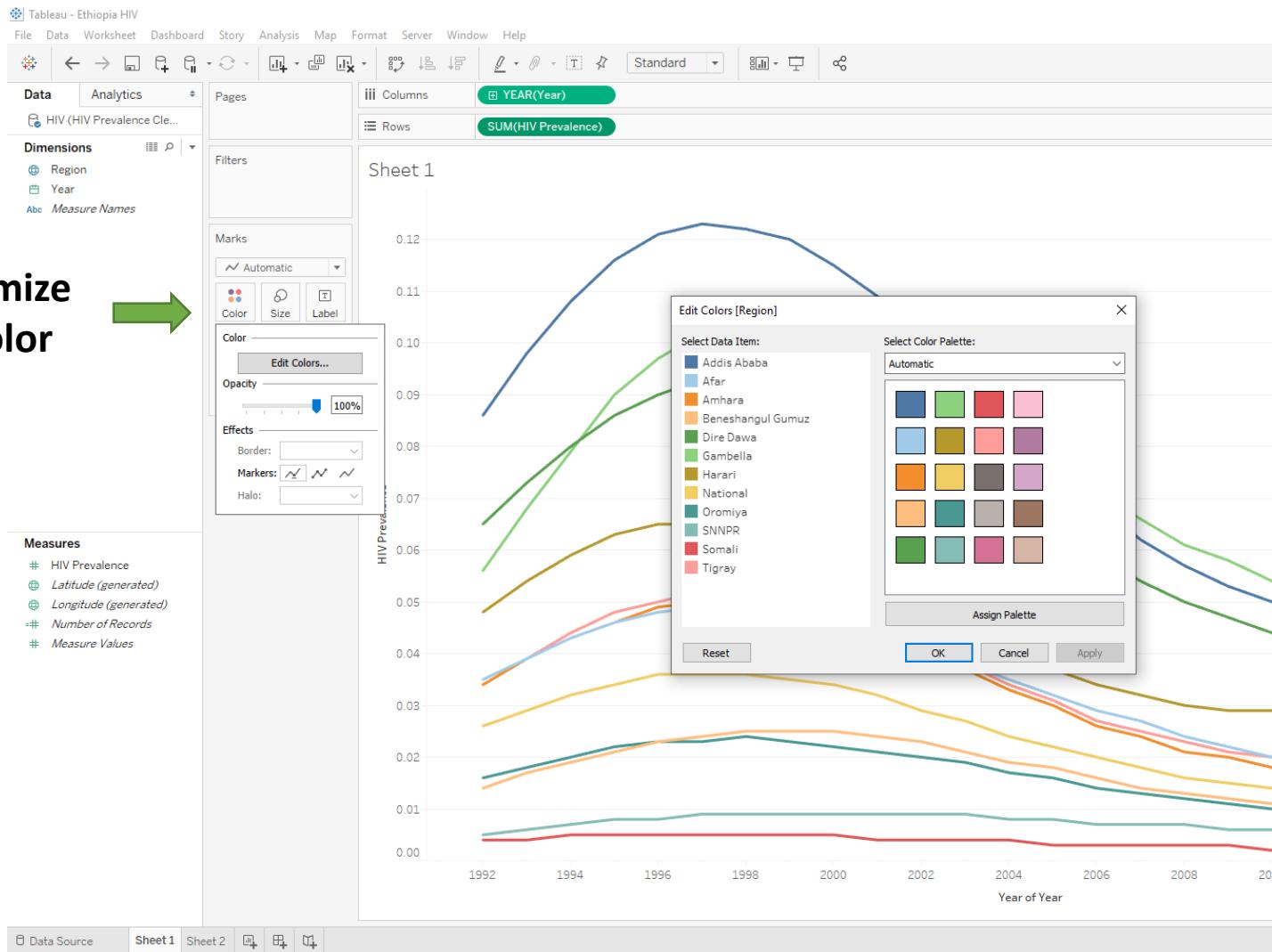
Line Chart





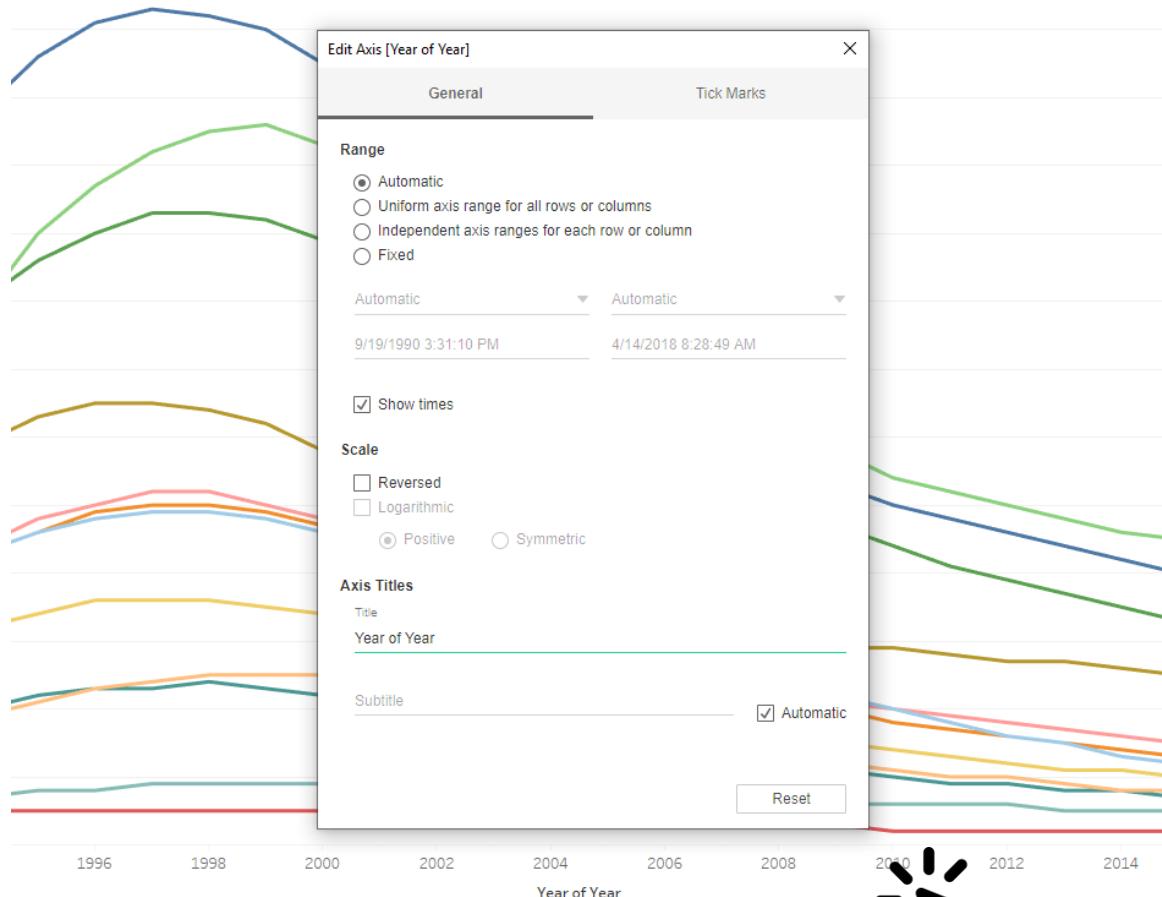
Customize Color

Customize
line color





Customize Axis



Double click to edit
axis



Show as Percentage

Sheet 1

Columns: YEAR(Year)

Rows: SUM(HIV Prevalence)

Filter...

Show Filter

Format...

✓ Show Header

✓ Include in Tooltip

Dimension

Attribute

Measure (Sum)

Discrete

Continuous

Edit in Shelf

Add Table Calculation...

Quick Table Calculation

Remove

A Fields

Axis Pane

Default

Font: Tableau Boo...

Shading:

Marks

Scale

Ticks:

Numbers: 12345600...

Alignment: Automatic

Color

Size

Label

Title

Font:

Percentage

Decimal places: 1

A Fields

Axis Pane

Default

Font: Tableau Boo...

Alignment: Automatic

Numbers: 12345600...

Totals

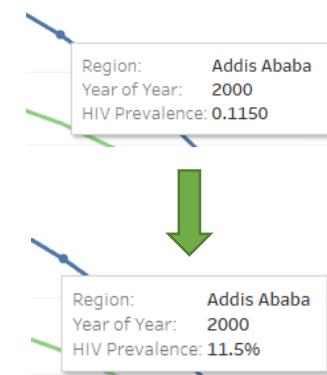
Font:

Alignment:

Numbers:

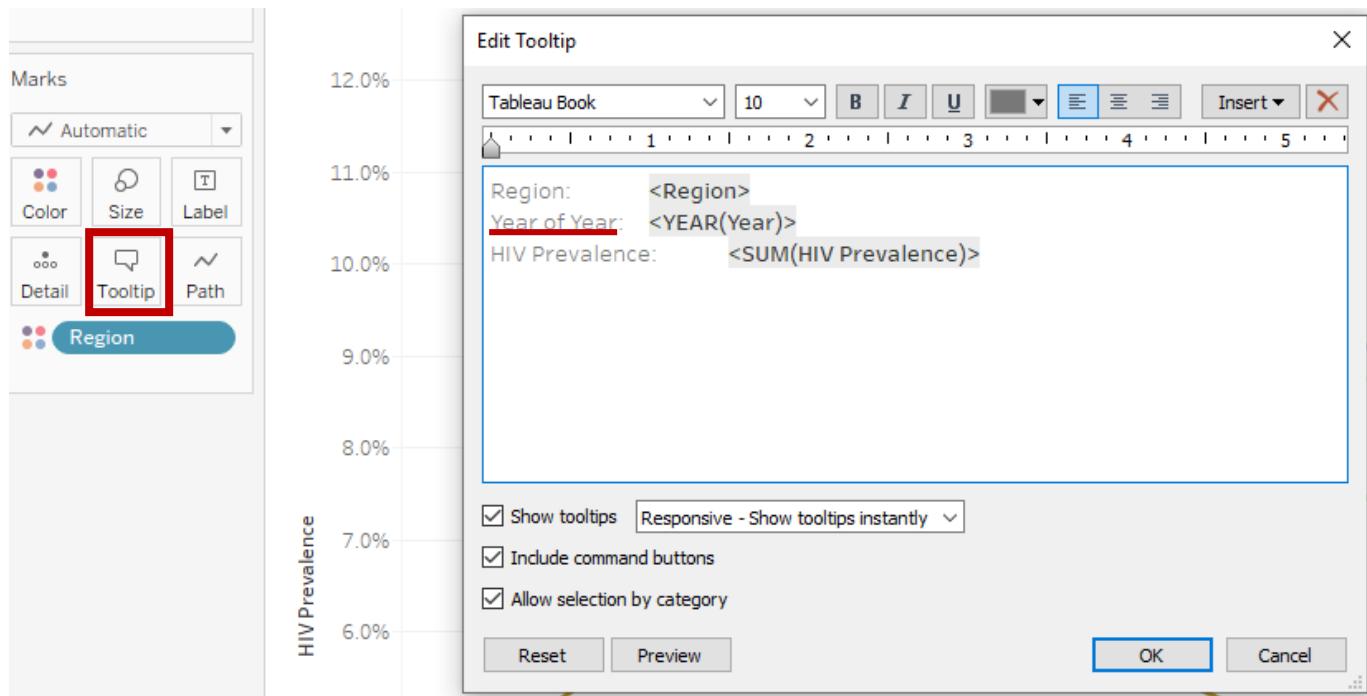
Percentage

Decimal places: 1





Customize Tooltip



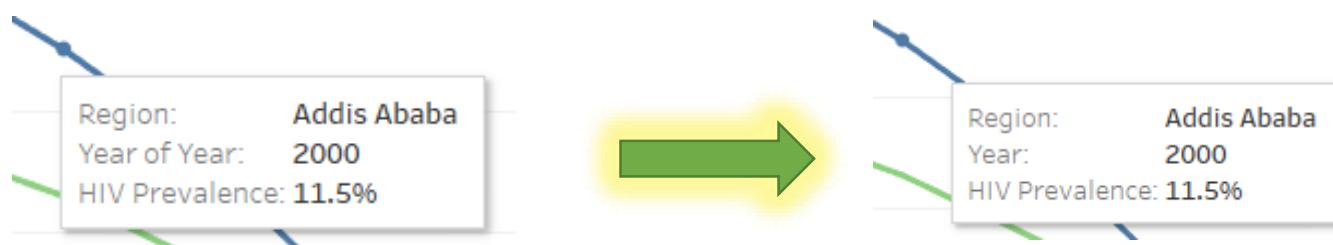
The screenshot shows the Tableau 'Edit Tooltip' dialog box. In the 'Marks' shelf on the left, the 'Tooltip' button is highlighted with a red box. The main area displays the following tooltip content:

```
Region: <Region>
Year of Year: <YEAR(Year)>
HIV Prevalence: <SUM(HIV Prevalence)>
```

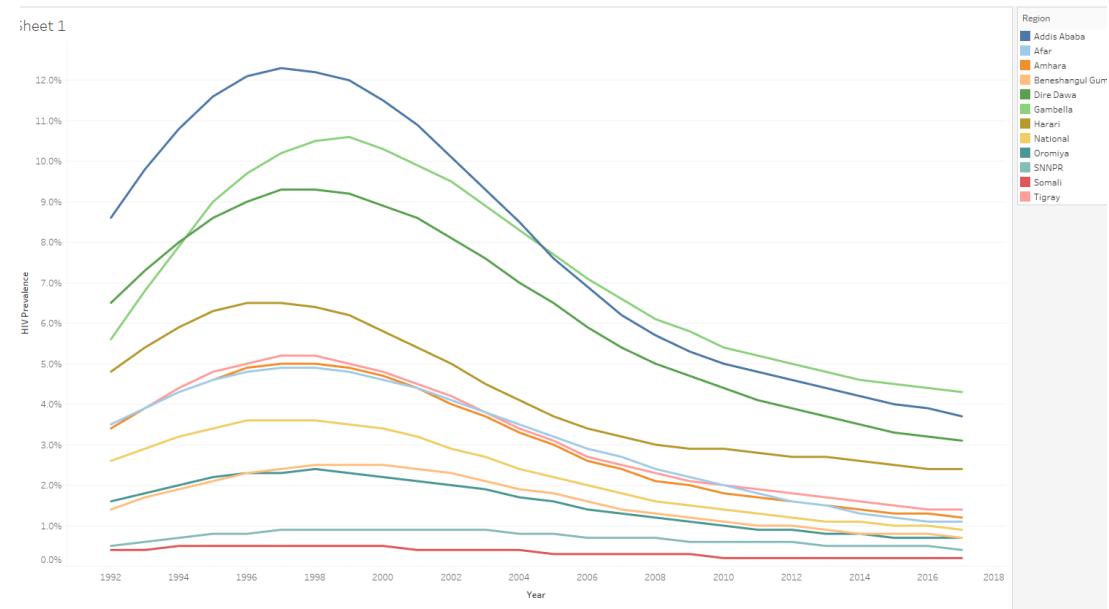
Below the content, there are three checked checkboxes:

- Show tooltips (Responsive - Show tooltips instantly)
- Include command buttons
- Allow selection by category

At the bottom are 'Reset', 'Preview', 'OK' (highlighted with a blue border), and 'Cancel' buttons.



Line Chart Done!





Choropleth Map

The screenshot shows the Qlik Sense Data View interface. On the left, the Dimensions pane lists 'Region' and 'Year'. The main area displays a choropleth map titled 'Sheet 2' with two regions labeled 'Addis' and 'Beneshan'. A green circle with the number '1' highlights the 'Region' dimension in the top navigation bar. A blue arrow points from the 'Region' dimension in the Dimensions pane to the 'Region' button in the top navigation bar.

The screenshot shows the Qlik Sense Analytics View interface. On the right, the 'Show Me' feature is open, displaying a grid of visualization icons. A green circle with the number '2' highlights the 'Symbol Map' icon, which is a world map with colored dots. A large black cursor arrow points towards this icon. Below the grid, text provides instructions for creating symbol maps:

For symbol maps try

- 1 geo ⚙ Dimension
- 0 or more Dimensions
- 0 to 2 Measures

May use spatial measure in place of geo dimension



Match Location

Why nothing on the map?

We have unknown geographic locations!



eIMap contributors



For symbol maps try

1 geo Dimension

0 or more Dimensions

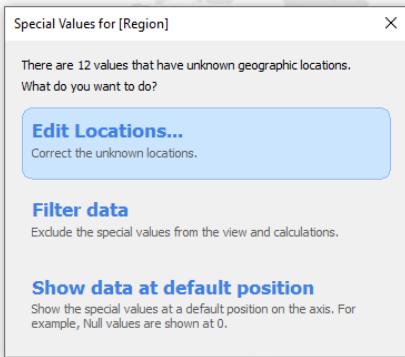
0 to 2 Measures

May use spatial measure in place of geo dimension

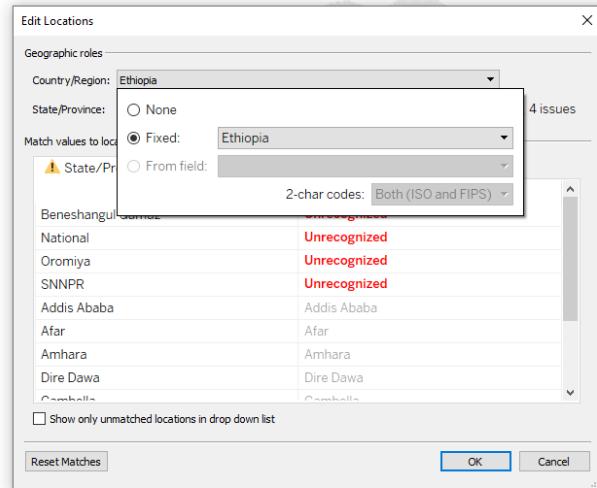
3



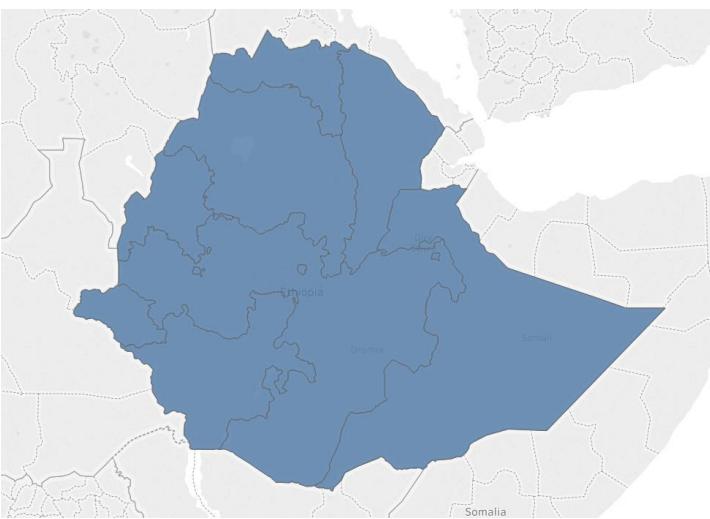
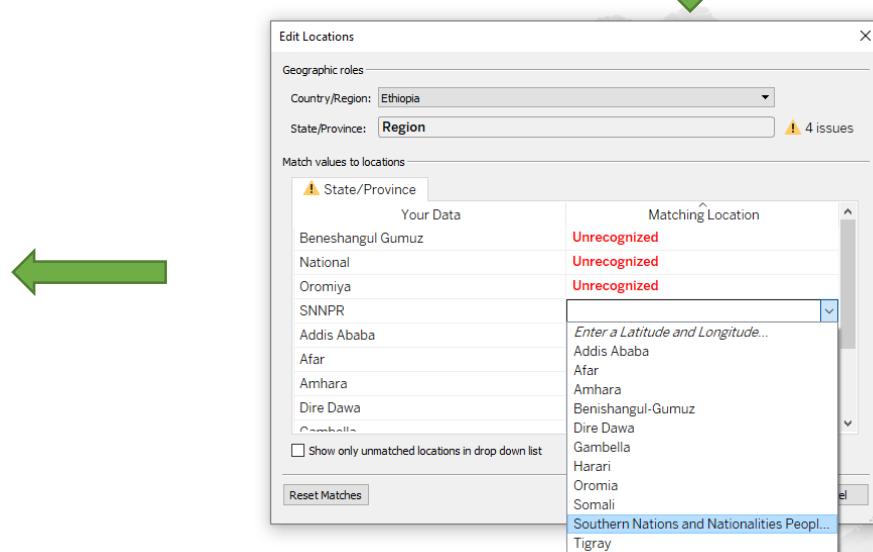
Edit Locations



Select Country

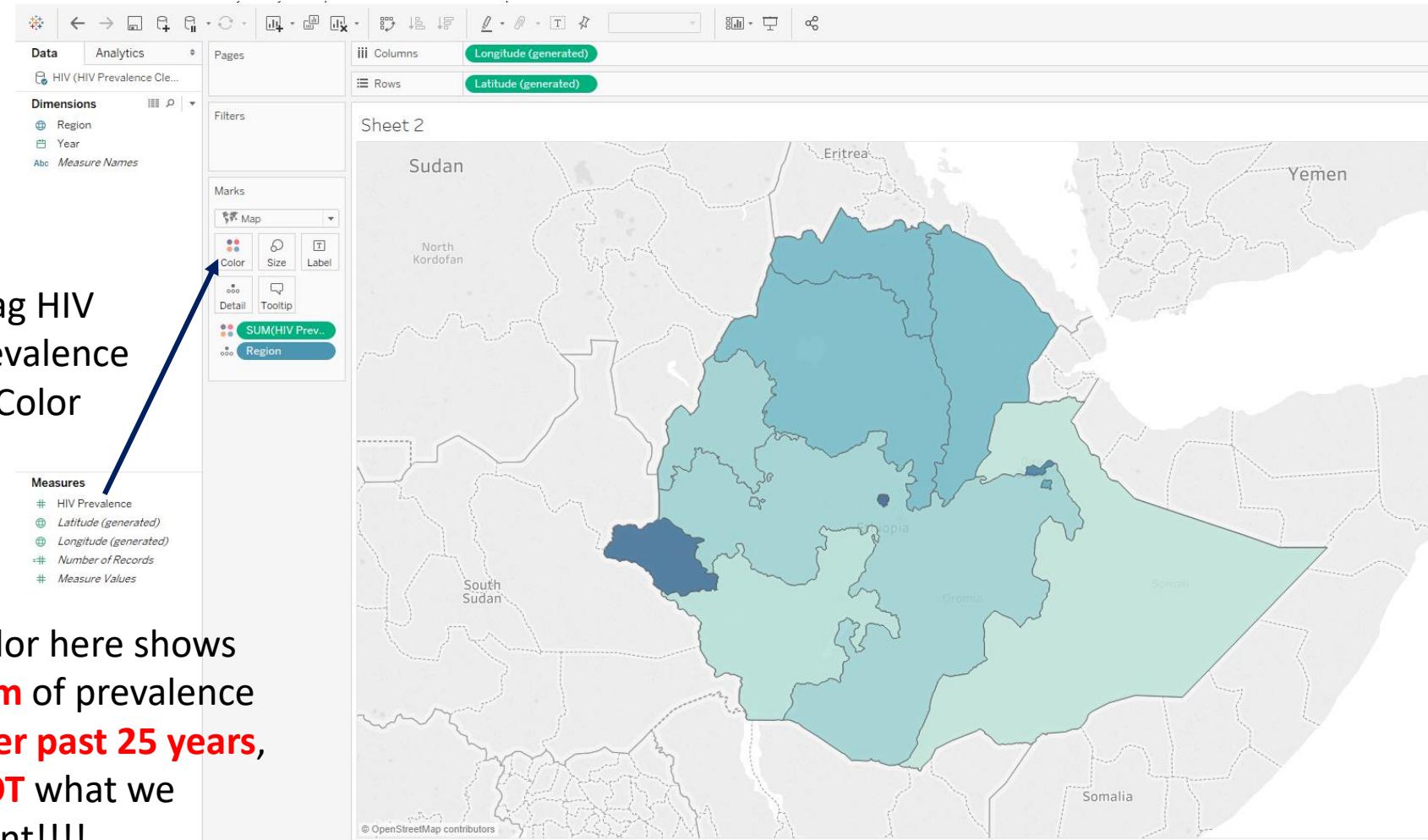


Match Unrecognized Region





Color





Filter by Year

Tableau - Ethiopia HIV

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Data Analytics

Dimensions

- Region
- Year

Abc Measure Names

Drag Year to Filter

Measures

- HIV Prevalence
- Latitude (generated)
- Longitude (generated)
- Number of Records
- Measure Values

Pages

Sheet 2

Sudan

North Kordofan

Eritrea

South Sudan

Filter Field [Year]

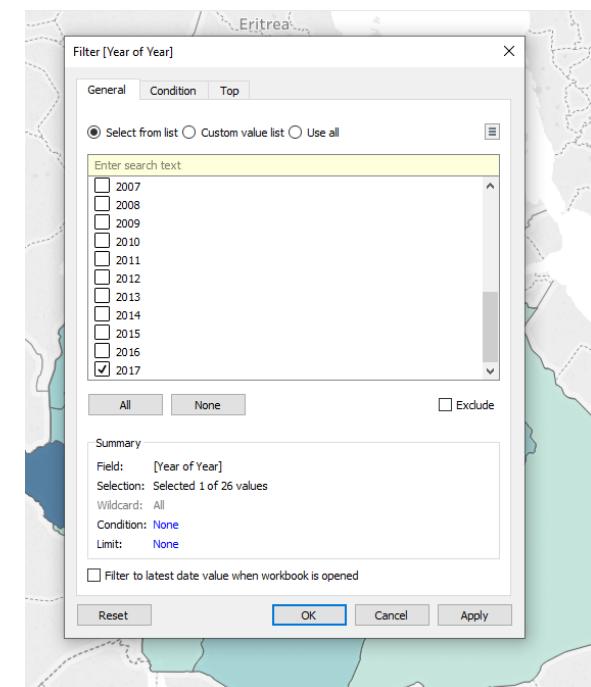
How do you want to filter on [Year]?

- Relative Date
- Range of Dates
- # Years
- # Quarters
- # Months
- # Days
- # Week numbers
- # Weekdays
- # Month / Year
- # Month / Day / Year
- Individual Dates
- # Count
- # Count (Distinct)
- Minimum
- Maximum
- Attribute

Next > Cancel

© OpenStreetMap contributors

Choose single year you want to visualize





Customize Color

1

2 Choose Palette

In Advanced, fix value range

3

Palettes:

- Red

0.00000 0.04300

Stepped Color 5 Steps

Reversed

Use Full Color Range

Include Totals

Start: 0 End: 0.12

Center: 0.0215

Reset OK Cancel Apply



Show as Percentage

The screenshot illustrates the process of changing a measure value to a percentage in Tableau.

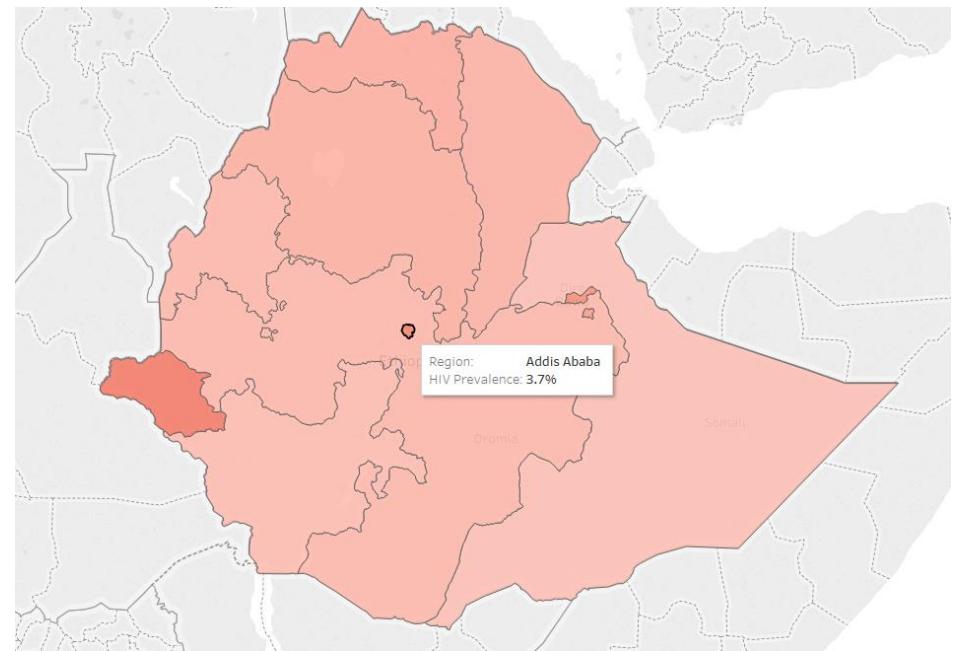
Left Panel (Context Menu):

- Filters: YEAR(Year): 2017
- Marks: Map, Color, Size, Label, Detail, Tooltip
- Measure: SUM(HIV P..) (selected)
- Options: Filter..., Show Filter, Format..., Include in Tooltip (checked), Dimension, Attribute, Measure (Sum) (selected), Continuous, Edit in Shelf, Add Table Calculation..., Quick Table Calculation..., Remove

Right Panel (Number Format Dialog):

- Axes, Fields, Filters, Marks, and other visualization controls are visible.
- Default:** Font: Tableau Boo.., Alignment: Automatic, Numbers: 12345600....
- Totals:** Font: (dropdown), Alignment: (dropdown), Numbers: (dropdown) showing options: Automatic, Number (Standard), Number (Custom), Currency (Standard), Currency (Custom), Scientific, Percentage (selected), Custom.
- Grand Totals:** Font: (dropdown), Alignment: (dropdown), Numbers: (dropdown).
- Percentage:** Decimal places: 1

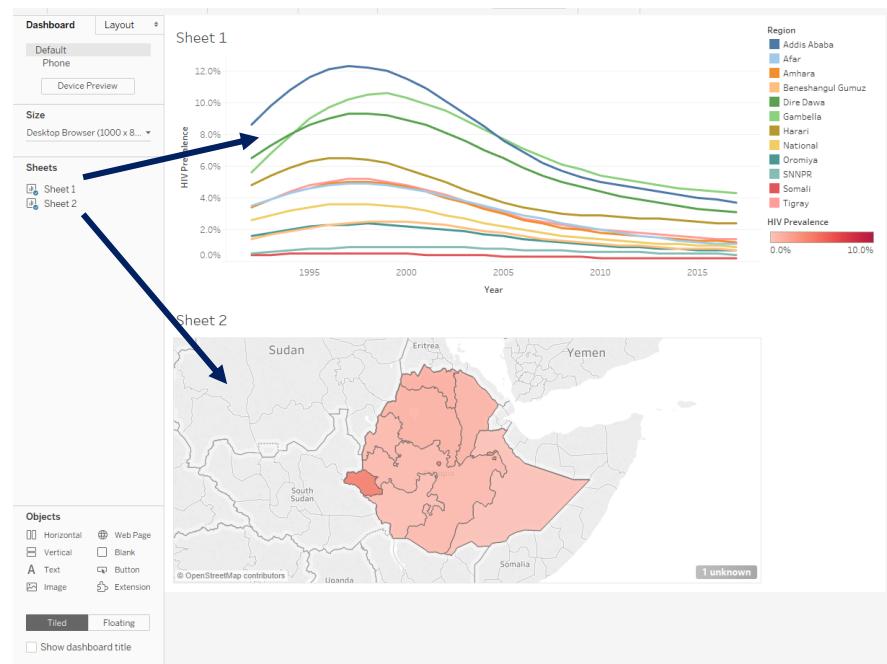
Choropleth Map Done!





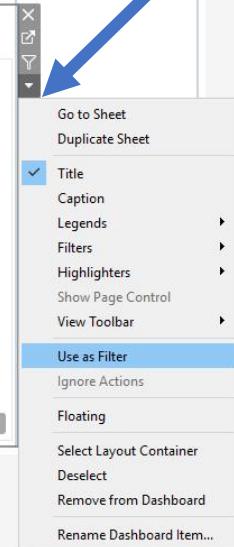
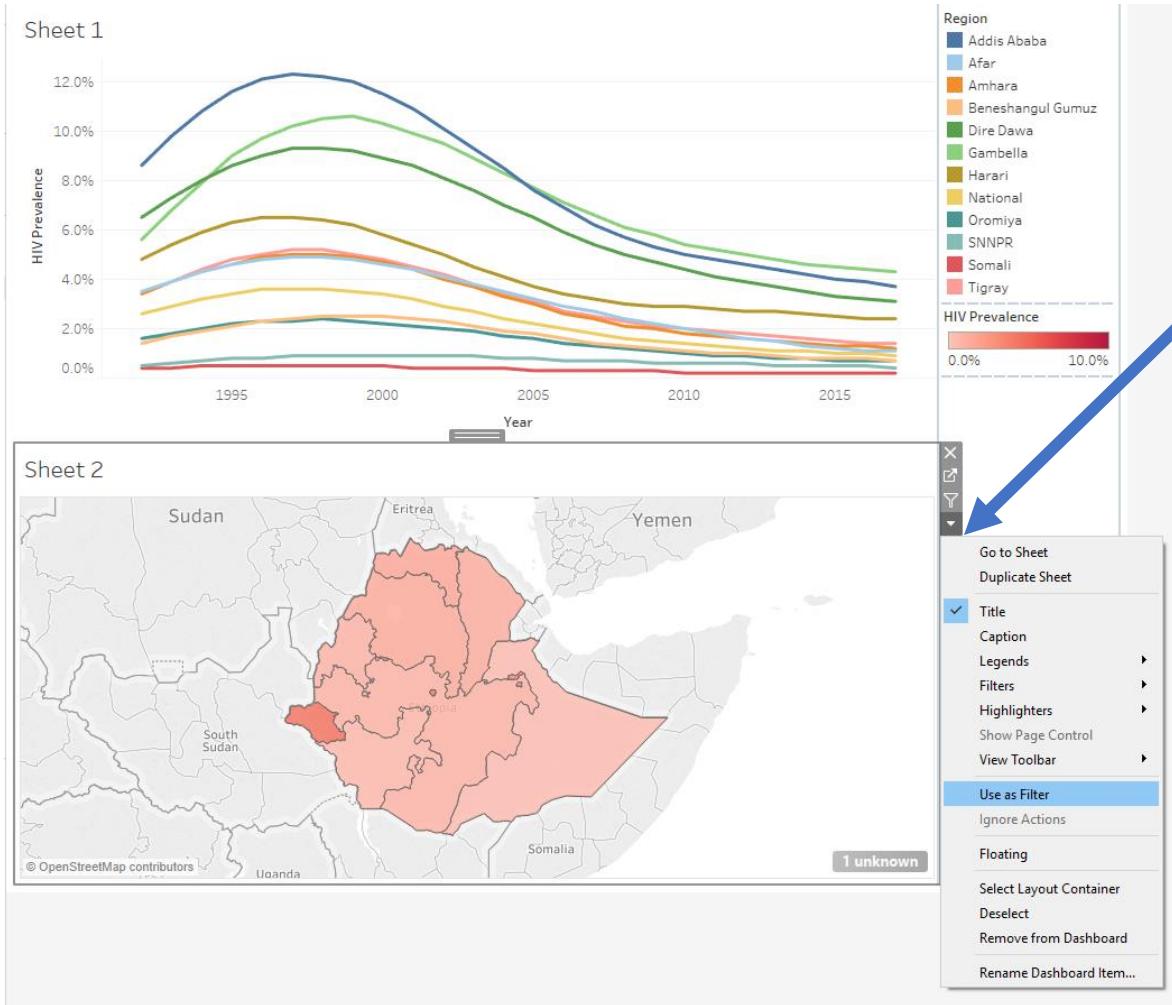
Dashboard

- Create a new dashboard tab
- Drag both sheets to dashboard





Connect Chart

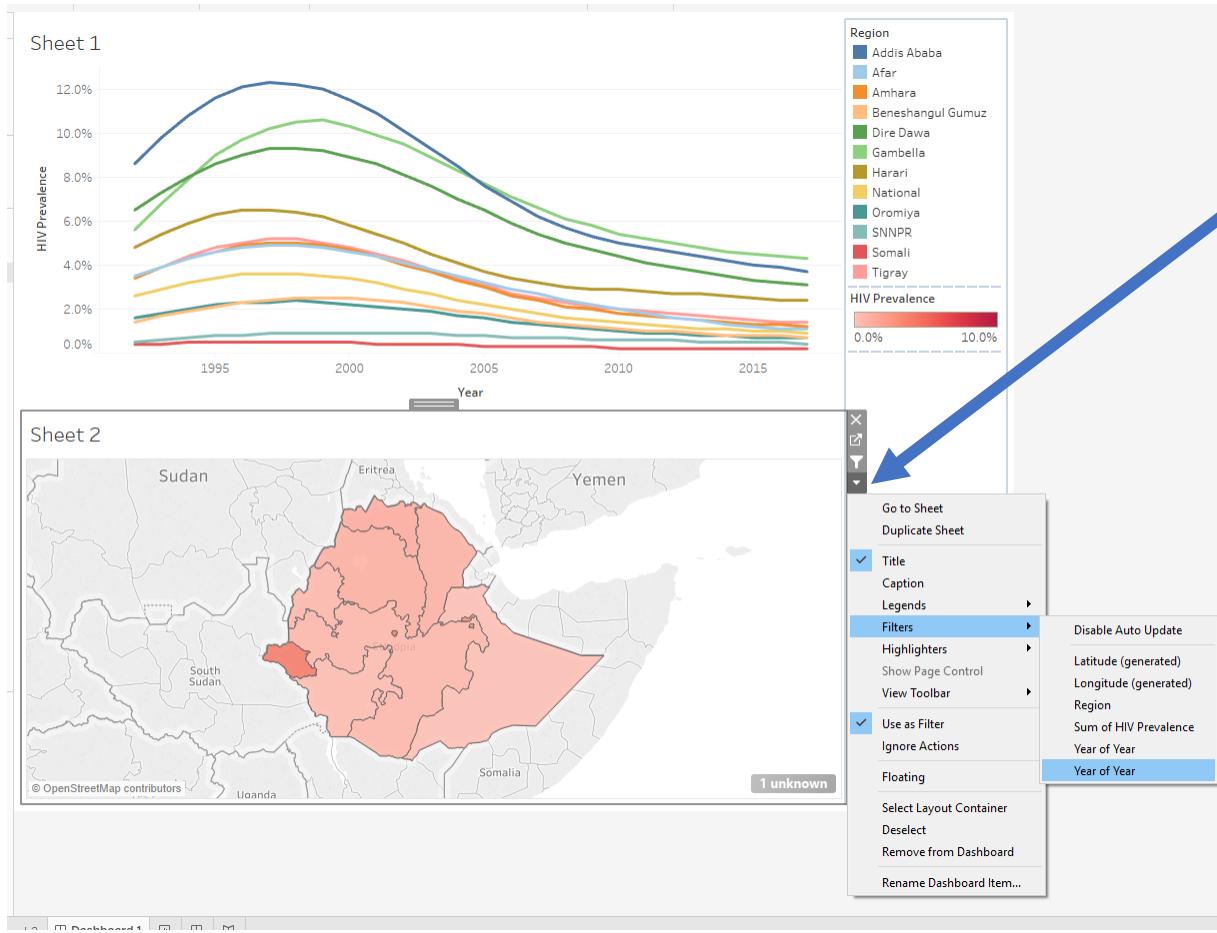


- More options
- Use as Filter

Now when you click on a region, the first chart also change!



Add Time Slider



- More options
- Filters
- Year of Year



Add year filter

Year of Year

- (All)
- 1992
- 1993
- 1994
- 1995
- 1996
- 1997
- 1998
- 1999





Add Time Slider

The screenshot shows a dropdown filter for 'Year of Year' on a Qlik Sense dashboard. The filter contains years from 1992 to 2012, with '1996' selected. A context menu is open over the filter, specifically the 'Customize' section. The 'Show All' value option is checked. Other visible options include 'Show Title', 'Edit Title...', 'Single Value (list)', 'Single Value (dropdown)', 'Single Value (slider)' (which is selected), 'Multiple Values (list)', 'Multiple Values (dropdown)', 'Multiple Values (custom list)', 'Only Relevant Values', 'All Values in Database' (selected), 'Include Values', 'Exclude Values', 'Floating', 'Fix Height', 'Edit Height...', 'Select Layout Container', 'Deselect', 'Remove from Dashboard', and 'Rename Dashboard Item...'. The background shows a small chart with a red bar labeled '015' and a green bar labeled '1 unknown'.

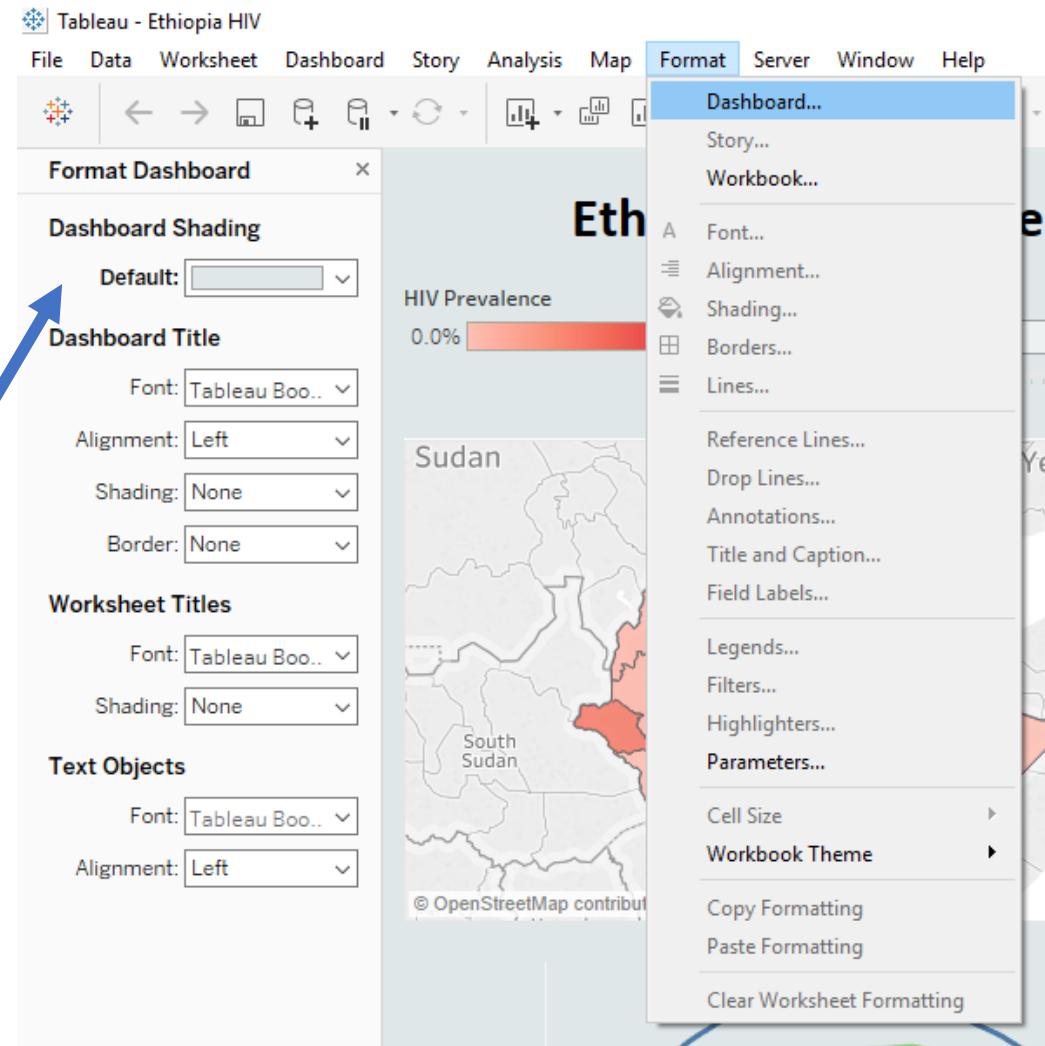
- More options
- Customize
- Uncheck Show "All" Value

The screenshot shows a dropdown filter for 'Year of Year' on a Qlik Sense dashboard. The filter contains years from 1992 to 2013, with '1997' selected. A context menu is open over the filter, specifically the 'Customize' section. The 'Single Value (slider)' option is selected. Other visible options include 'Show All' value (unchecked), 'Show Title', 'Edit Title...', 'Single Value (list)', 'Single Value (dropdown)', 'Multiple Values (list)' (selected), 'Multiple Values (dropdown)', 'Multiple Values (custom list)', 'Only Relevant Values', 'All Values in Database' (selected), 'Include Values', 'Exclude Values', 'Floating', 'Fix Height', 'Edit Height...', 'Select Layout Container', 'Deselect', 'Remove from Dashboard', and 'Rename Dashboard Item...'. The background shows a small chart with a grey bar labeled '5' and a green bar labeled 'unknown'.

- More options
- Single Value (slider)

Customize Content

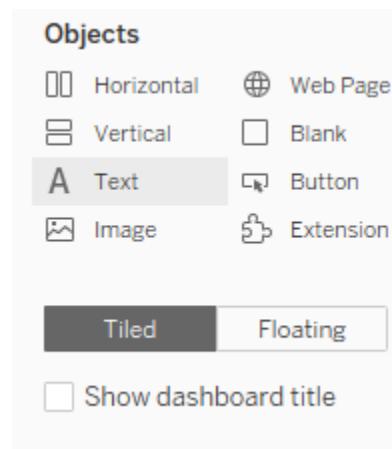
- Change dashboard background color
- Format -> Dashboard -> Dashboard Shading





Customize Content

- Modify Title by double clicking on the title
- Add object (text, image) by dragging object to dashboard





Customize Content

- How to add YouTube video?
- Drag a Webpage   to dashboard
- Enter your modified YouTube link

Before

<https://www.youtube.com/watch?v=Mg43RbYsBho>

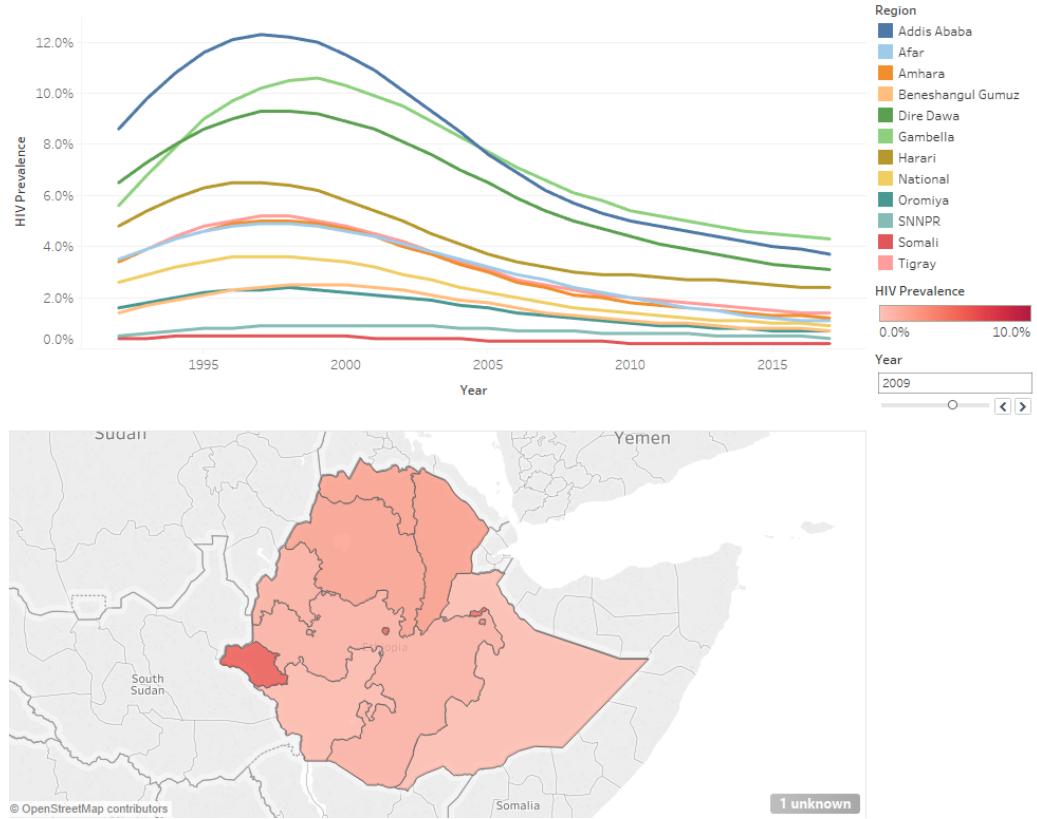


Keep ID and add “/embed/”

After

<https://www.youtube.com/embed/Mg43RbYsBho>

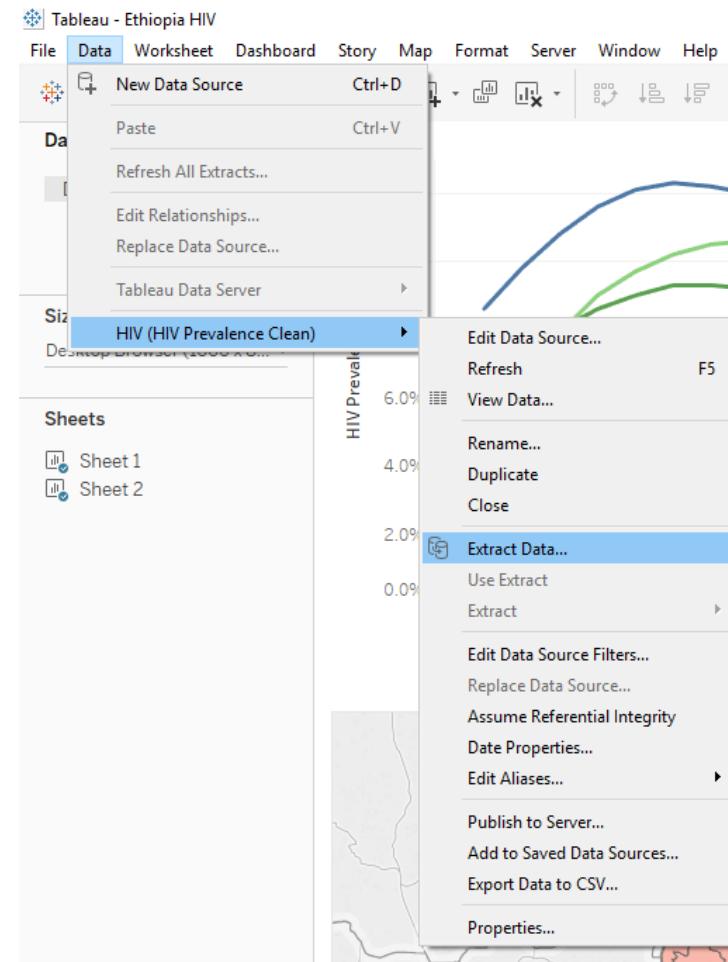
Dashboard Done!





Share Your Tableau Work (Tableau Desktop Only)

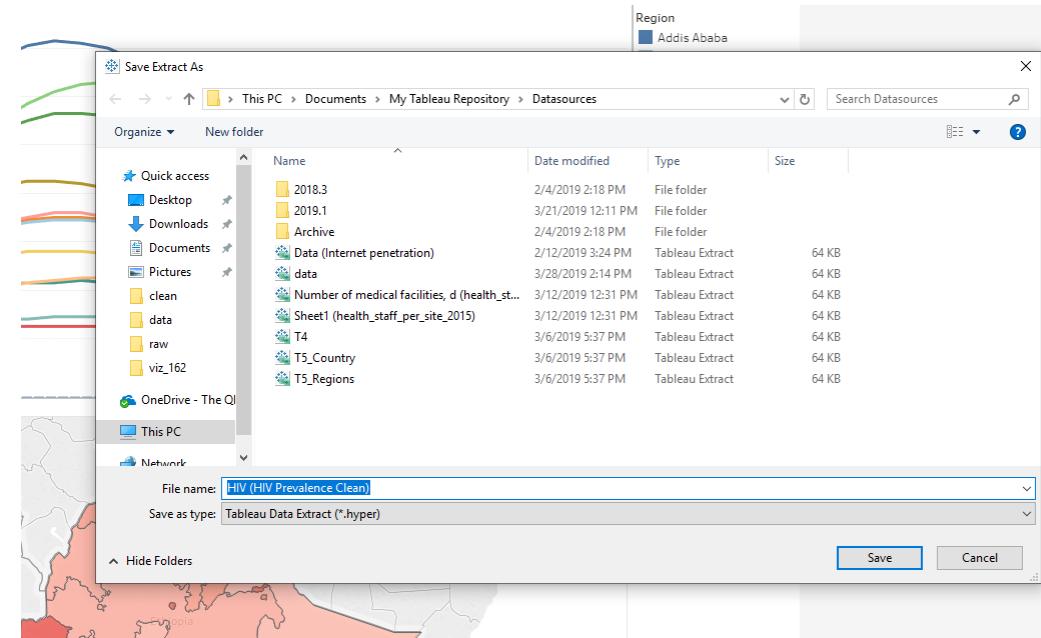
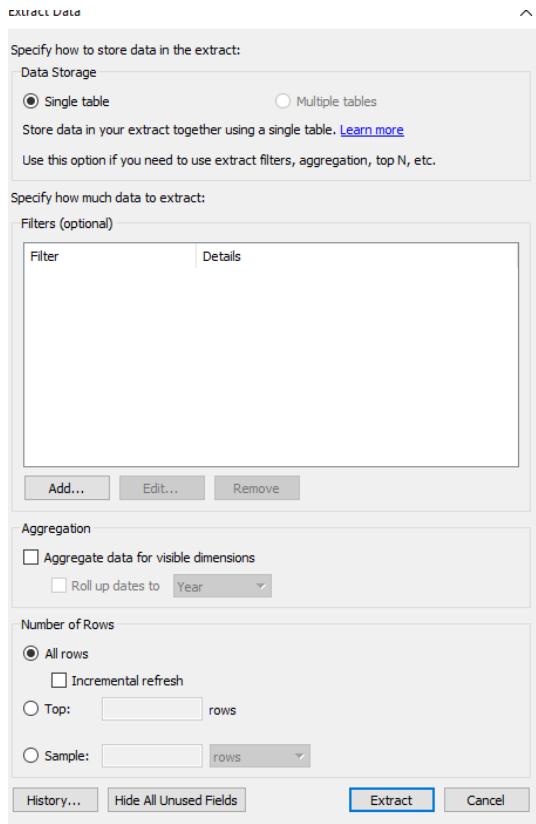
- Extract data:
 - Data
 - HIV
 - Extract Data





Share Your Tableau Work (Tableau Desktop Only)

- Extract data:

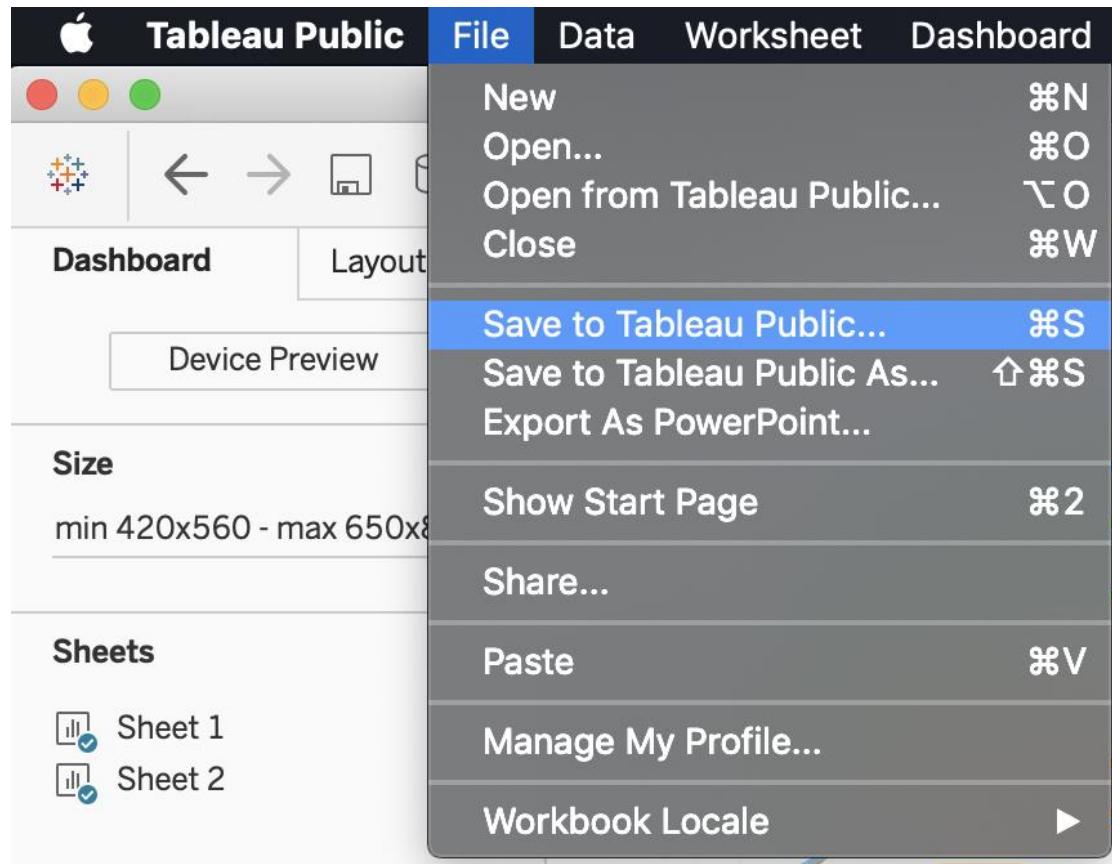




Share Your Tableau Work (Tableau Desktop Only)

- Publish:
 - Server
 - Tableau Public
 - Save to Tableau Public
 - Sign in your Tableau Public Account

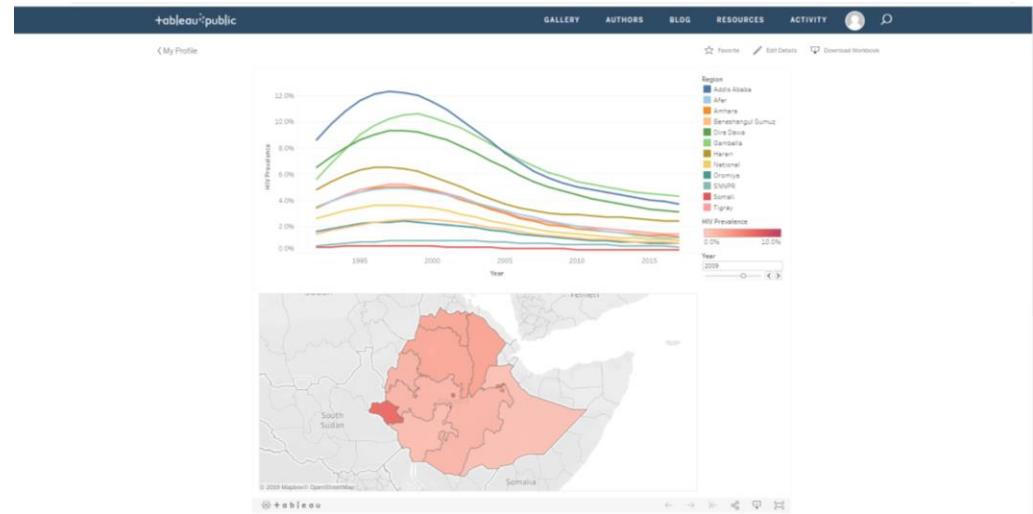
The screenshot illustrates the process of sharing a Tableau dashboard. On the left, the Tableau desktop interface shows a dashboard titled 'Ethiopia HIV' with two sheets: 'Sheet1' and 'Sheet2'. The main menu bar includes File, Data, Worksheet, Dashboard, Story, Map, Format, Server, Window, and Help. A context menu is open under the 'Server' option, with 'Tableau Public' highlighted. This menu also includes options like 'Sign In...', 'Open Workbook...', 'Publish Workbook...', 'Publish Data Source...', 'Create User Filter...', 'Install Tableau Bridge Client...', 'Open from Tableau Public...', 'Save to Tableau Public...', 'Save to Tableau Public As...', and 'Manage My Profile...'. On the right, a separate window titled 'Tableau Public Sign In' is displayed, featuring fields for 'Email' and 'Password', a large orange 'Sign In' button, and links for 'Forgot your password?' and 'Create one now for free'.



- Easy two steps!
- 1. “File” on the top
- 2. Save to Tableau Public

Share Your Tableau Work (Tableau Public Only)

Your Work is Public!





Share Your Tableau Work on CGDV

- Find share button under your Tableau visual



- Copy the Embed code when uploading visual on CGDV.

The diagram illustrates the workflow for sharing a Tableau visualization on CGDV. It shows two main components: the Tableau Share dialog and the CGDV upload form.

Tableau Share Dialog:

- Embed Code:** Contains the embed code: `lement, vizElement); </script>`.
- Link:** Contains the public URL: <https://public.tableau.com/views/Ethi>.
- Sharing Options:** Includes icons for email, Twitter, and Facebook.

CGDV Upload Form:

- Visualization Title:** Title (empty).
- Visualization Country:** Select Country (empty).
- University or Organization:** Select University or Organization (empty).
- Category:** Select category (empty).
- Challenge:** Select Challenge (empty).
- Data Source:** Data Source (empty).
- Tags:** Add tags by comma separated e.g. tag1,tag2 (empty).
- Embed Code:** Add Embed Code (points to the embed code in the Share dialog).

End of Module 1

