

Visualizations for journalist

Nairobi, 28 May 2014

At the end of this session
you will be able to:

Create charts in excel.

Create interactive charts and graphs
for the web using online tools.

EXCEL WITH EXCEL

Journalistic use of excel charts



Data analysis – seeing trends.

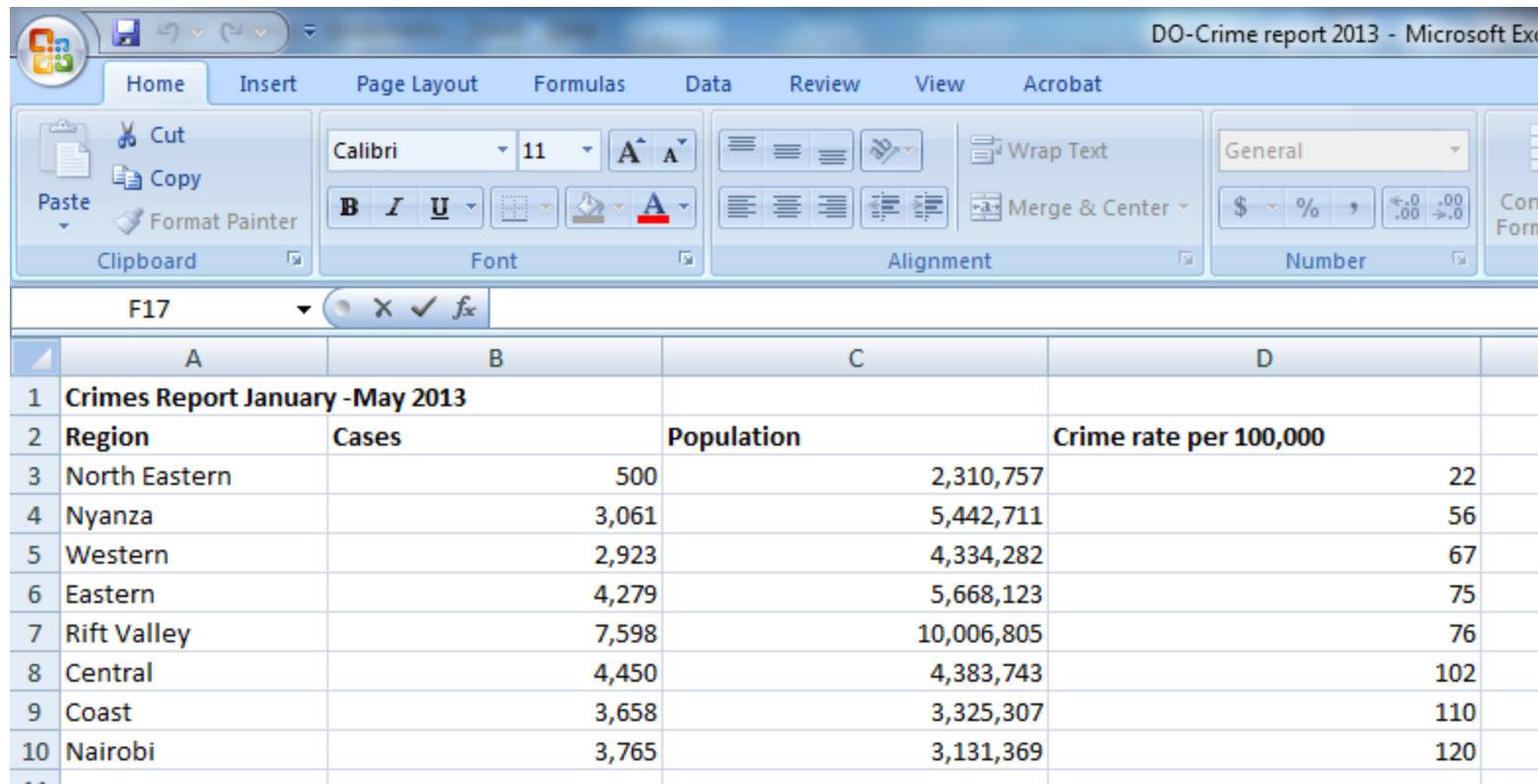
Showcasing data when pitching to editor.



Gives graphic designer better understanding of how you want the data to appear than spreadsheet alone.

CREATING EXCEL CHART

Open DO Crime report 2013



The screenshot shows a Microsoft Excel spreadsheet titled "DO-Crime report 2013 - Microsoft Excel". The ribbon menu is visible at the top, showing tabs for Home, Insert, Page Layout, Formulas, Data, Review, View, and Acrobat. The Home tab is selected. The toolbar below the ribbon includes standard functions like Cut, Copy, Paste, and Format Painter. The main content area displays a table with data for January-May 2013.

Crimes Report January -May 2013				
Region	Cases	Population	Crime rate per 100,000	
North Eastern	500	2,310,757		22
Nyanza	3,061	5,442,711		56
Western	2,923	4,334,282		67
Eastern	4,279	5,668,123		75
Rift Valley	7,598	10,006,805		76
Central	4,450	4,383,743		102
Coast	3,658	3,325,307		110
Nairobi	3,765	3,131,369		120

Move crime rate next to region

The screenshot shows a Microsoft Excel spreadsheet titled "Crimes Report January - May 2013". The table has four columns: Region, Cases, Crime rate per 100,000, and a blank column. Cell B1, which contains the value "Cases", has a context menu open. The menu includes options like Cut, Copy, Paste, Insert Cut Cells (which is highlighted), Delete, Clear Contents, Format Cells..., Column Width..., Hide, and Unhide.

1	A	B	C	D
1	Crimes Report January - May 2013			
2	Region	Cases		Crime rate per 100,000
3	North Eastern		0,757	22
4	Nyanza		2,711	56
5	Western		4,282	67
6	Eastern		8,123	75
7	Rift Valley		6,805	76
8	Central		3,743	102
9	Coast		5,307	110
10	Nairobi		1,369	120
11				
12	Sources: Kenya Police			
13	Kenya Population and Housing Census 2012			
14				
15				

Select data, Insert chart

The screenshot shows a Microsoft Excel spreadsheet titled "Crimes Report January - May 2013". The data is organized into two columns: "Region" (A) and "Crime rate per 100,000" (B). The regions listed are North Eastern, Nyanza, Western, Eastern, Rift Valley, Central, Coast, and Nairobi. The crime rates range from 22 to 120. The "Insert" tab is active, and a chart dropdown menu is open, showing the "Column" type selected. The dropdown menu includes sections for "2-D Column", "3-D Column", "Cylinder", "Cone", and "Pyramid", each displaying four preview images of the respective chart types.

	A	B
1	Crimes Report January - May 2013	
2	Region	Crime rate per 100,000
3	North Eastern	22
4	Nyanza	56
5	Western	67
6	Eastern	75
7	Rift Valley	76
8	Central	102
9	Coast	110
10	Nairobi	120
11		
12	Sources: Kenya Police	
13	Kenya Population and Housing Census 2012	
14		
15		
16		
17		
18		

Result

DO-Crime report 2013 - Microsoft Excel

Chart Tools

Home Insert Page Layout Formulas Data Review View Acrobat Design Layout Format

Change Chart Type Save As Template Switch Row/Column Select Data Chart Layouts Chart Style

Type Data Chart St

Chart 2 f_x

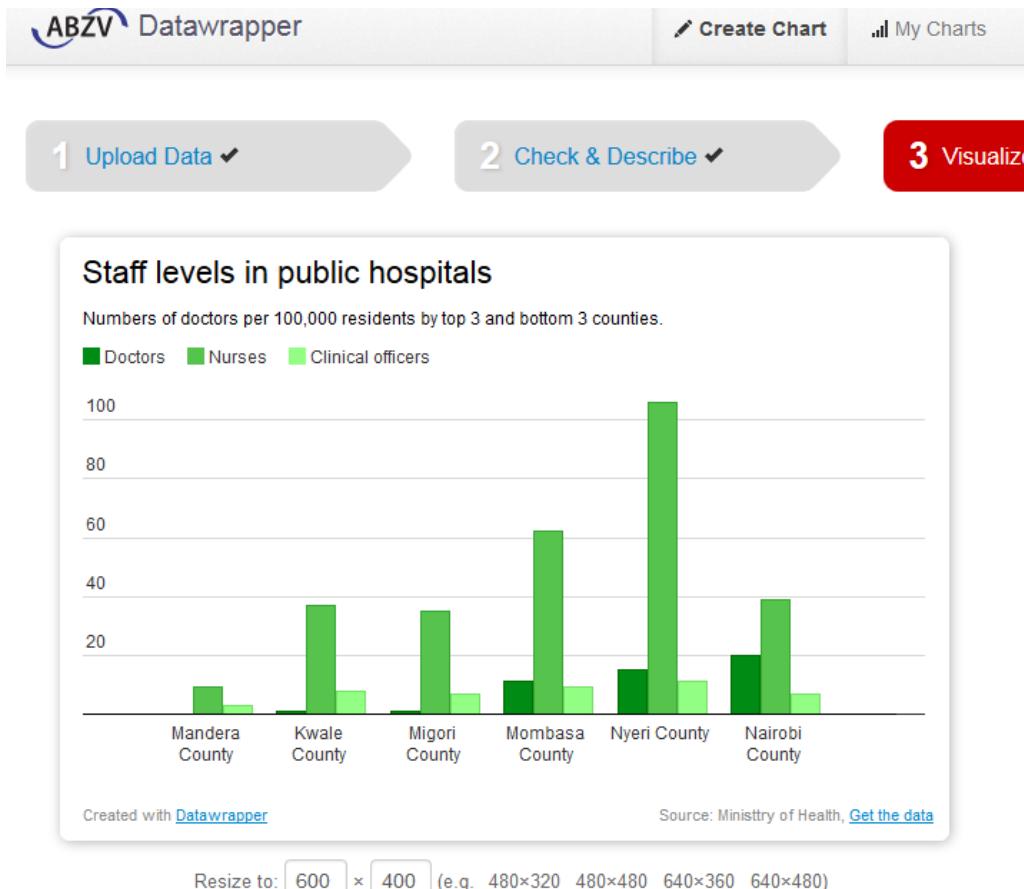
	A	B	C	D	E	F	G
1	Crimes Report January -May 2013						
2	Region	Crime rate per 100,000	Cas				
3	North Eastern	22					
4	Nyanza	56					
5	Western	67					
6	Eastern	75					
7	Rift Valley	76					
8	Central	102					
9	Coast	110					
10	Nairobi	120					
11							
12	Sources: Kenya Police						
13	Kenya Population and Housing Census 2012						
14							
15							
16							
17							

Crime rate per 100,000

Region	Crime rate per 100,000
North Eastern	22
Nyanza	56
Western	67
Eastern	75
Rift Valley	76
Central	102
Coast	110
Nairobi	120

CREATING INTERACTIVE CHARTS

datawrapper.de

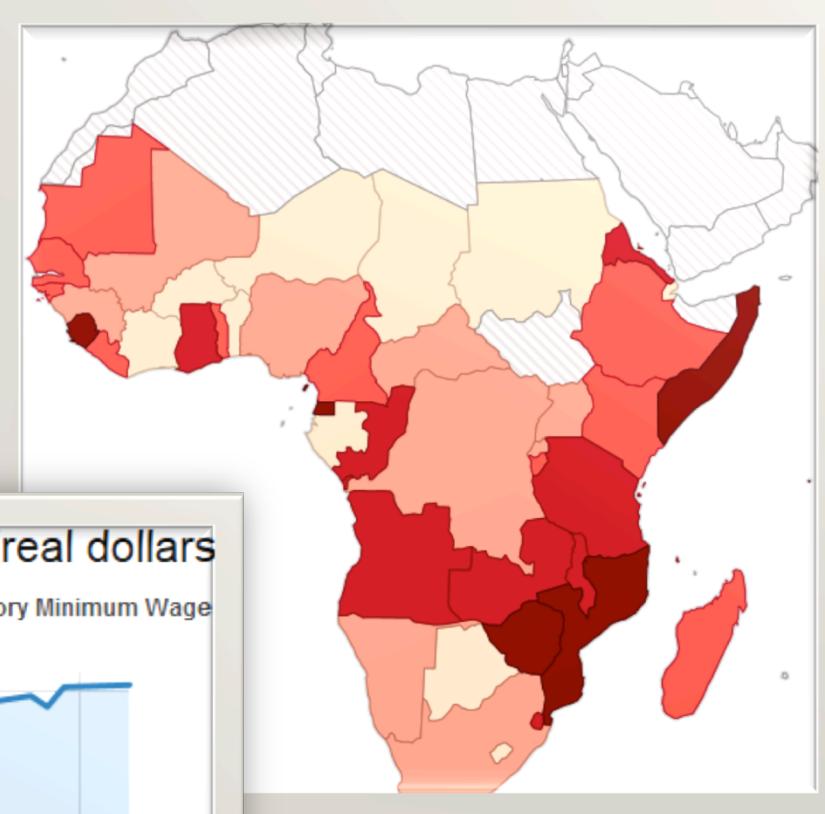
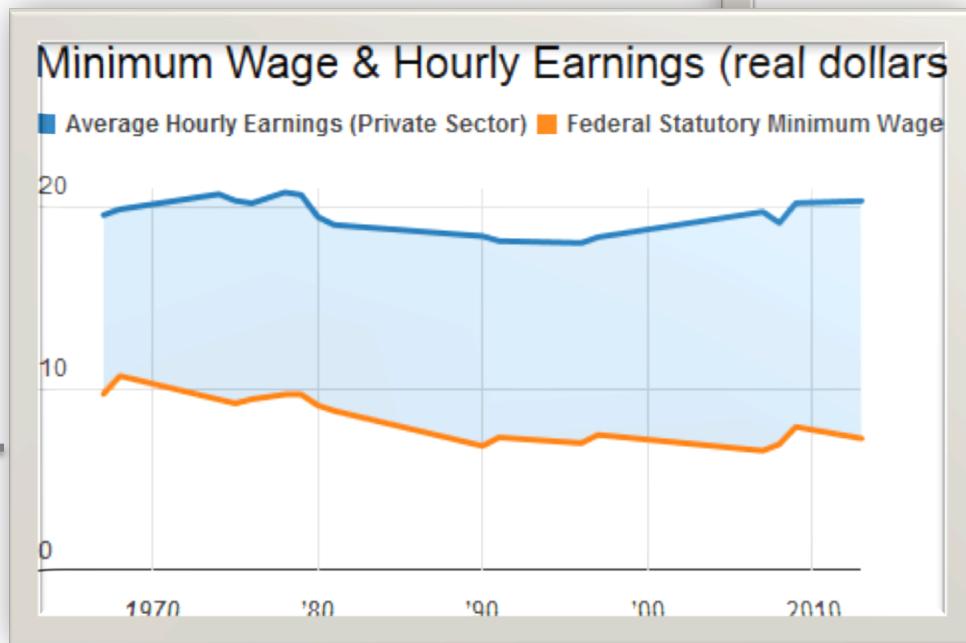


Pro

Easy, just drag and drop
Interactive graphs
Works on low bandwidth

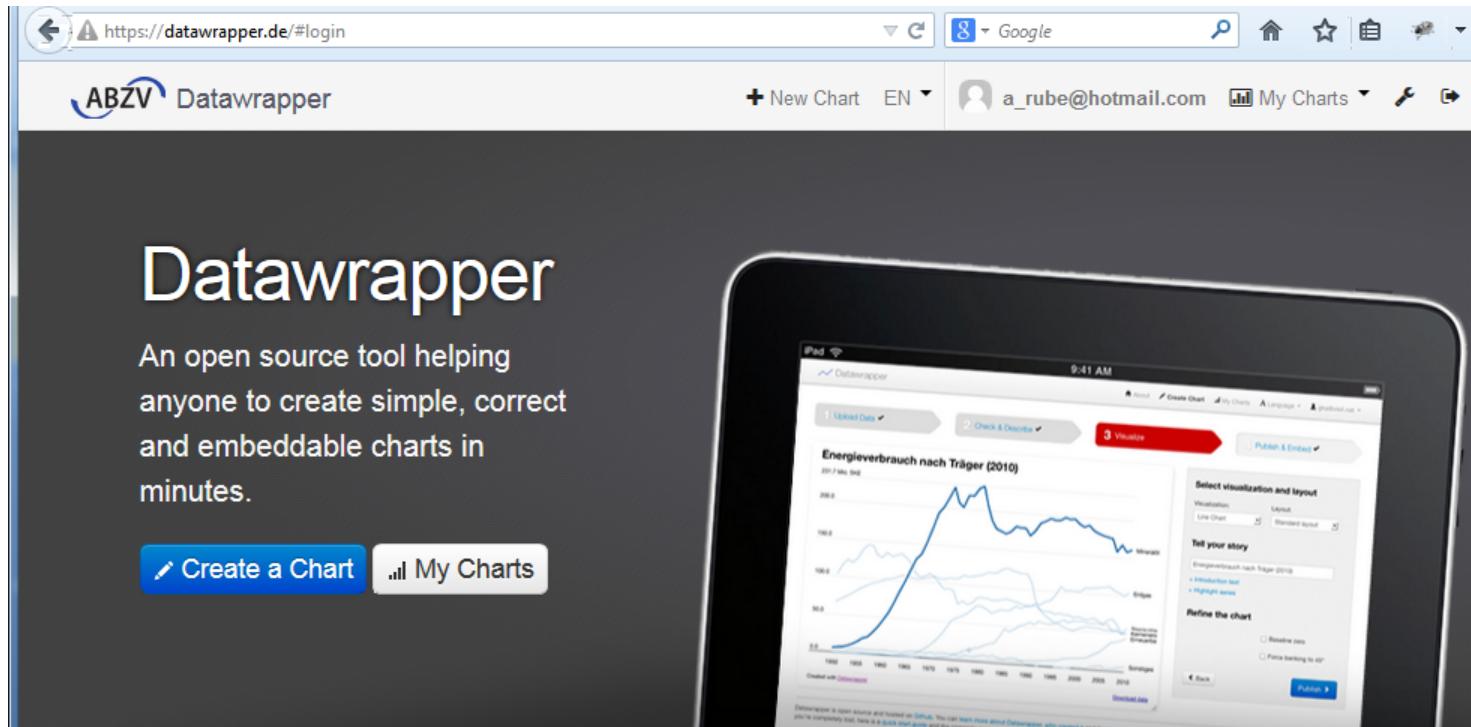
Con

Only for small data sets
No Filters
Labeling limitations



LETS GET TO WORK!

Register & Login www.datawrapper.de



Easy to use

This little tool reduces the time needed to create a correct chart and

Full control

Datawrapper is 100% free software. You can use our free hosted service,

Customizable

We encourage you to [customize the charts layout](#), fonts and colors to

Get your data

Crimes Report January - May 2013		
Region	Crime rate per 100,000	Cases
North Eastern		22
Nyanza		56
Western		67
Eastern		75
Rift Valley		76
Central		102
Coast		110
Nairobi		120
11		
12	Sources: Kenya Police	
13	Kenya Population and Housing Census 2012	
14		

Select the data you want to visualize from the spreadsheet in Excel.

Right click (or just crl+C) to copy the data

Past into data wrapper

1 Upload Data

2 Check & Describe

3 Visualize

Upload Your Data

Region	Crime rate per 100,000
North Eastern	22
Nyanza	56
Western	67
Eastern	75
Rift Valley	76
Central	102
Coast	110
Nairobi	120

 ..or upload a CSV file

Upload and continue ➔

How it works..

We made getting data in possible. If you're working with your data (including headers), just copy and paste into the following text field. [Learn how to upload data.](#)

Sample Data

If you simply want to play around with some example data, here's a list:

- Line chart: [Youth Unemployment](#)
- Line chart: [US Trade Deficit](#)
- Line chart: [Marriage Rates](#)
- Bar chart: [Fearless Felines](#)
- Bar chart: [Net borrowing](#)
- Bar chart (grouped): [Country Income](#)

Add source

1 Upload Data ✓

2 Check & Describe

3 Visualize

4 Publish & Embed

Transpose data table

	A	B
1	Region	Crime rate per 100,000
2	North Eastern	22
3	Nyanza	56
4	Western	67
5	Eastern	75
6	Rift Valley	76
7	Central	102
8	Coast	110
9	Nairobi	120

Customize column format ↴

Describe your data

First row as label

Credit the source

Who published the data in the first place?

name of the organisation

If possible, please provide a link the source data

http://

[◀ Back](#)

[Revert](#)

[Visualize ➔](#)

Add title and description

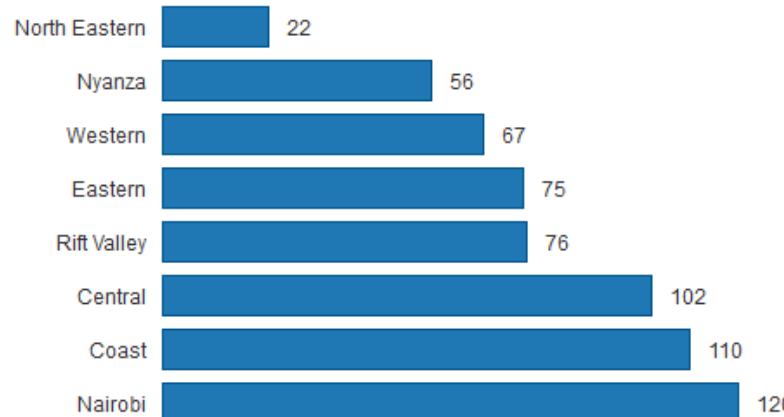
1 Upload Data ✓

2 Check & Describe ✓

3 Visualize

4 Publish & Embed

[Insert title here]



Created with [Datawrapper](#)

Source: Kenya Police, [Get the data](#)

Resize to: 600 × 400 (e.g. 480×320 480×480 640×360 640×480)

1 Select chart

2 Refine the chart

3 Tell the story

Guide the audience to read the chart

TITLE

[Insert title here]

DESCRIPTION

(Large empty text area for description)

Highlight the most import elements (optional)

- select element - ▾

Where did you get the data from?

SOURCE NAME

Kenya Police

SOURCE URL

URL of the dataset

◀ Back

Publish ➔

Ready for embedding!

1 Upload Data ✓

2 Check & Describe ✓

3 Visualize ✓

4 Publish & Embed

Congrats, you created a chart!

The chart is accessible under datawrapper.de/chart/ESnr2/edit or via your [My Charts](#) page.

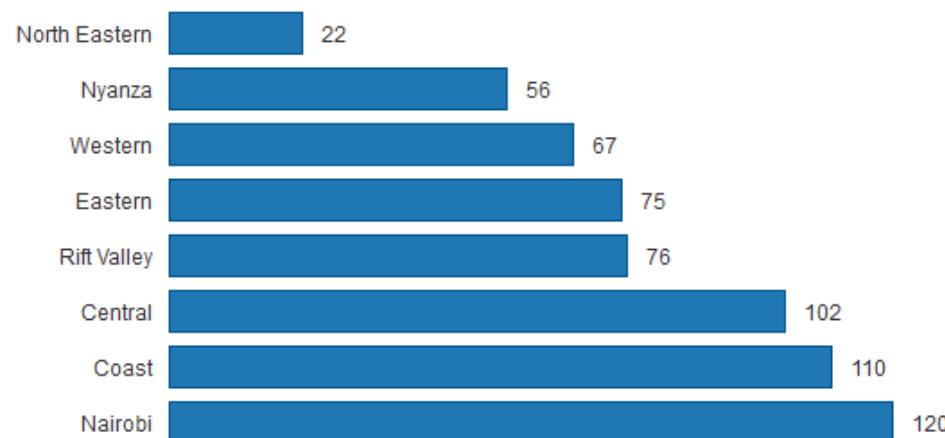
Now, to be able to publish and embed this chart into other websites, you need to activate the email address you entered during sign up process.

If you did not get any email within 5 minutes, here's the trouble shooting guide:

1. At first, don't worry. Everything you created will wait patiently.
2. Make sure that your spam filter didn't catch our activation email. They are sent from activate@datawrapper.de.
3. Of course, you can also let us [resend the activation email](#).

Most crimes take place in Nairobi

Crime rate per 100,000 residents



Created with [Datawrapper](#)

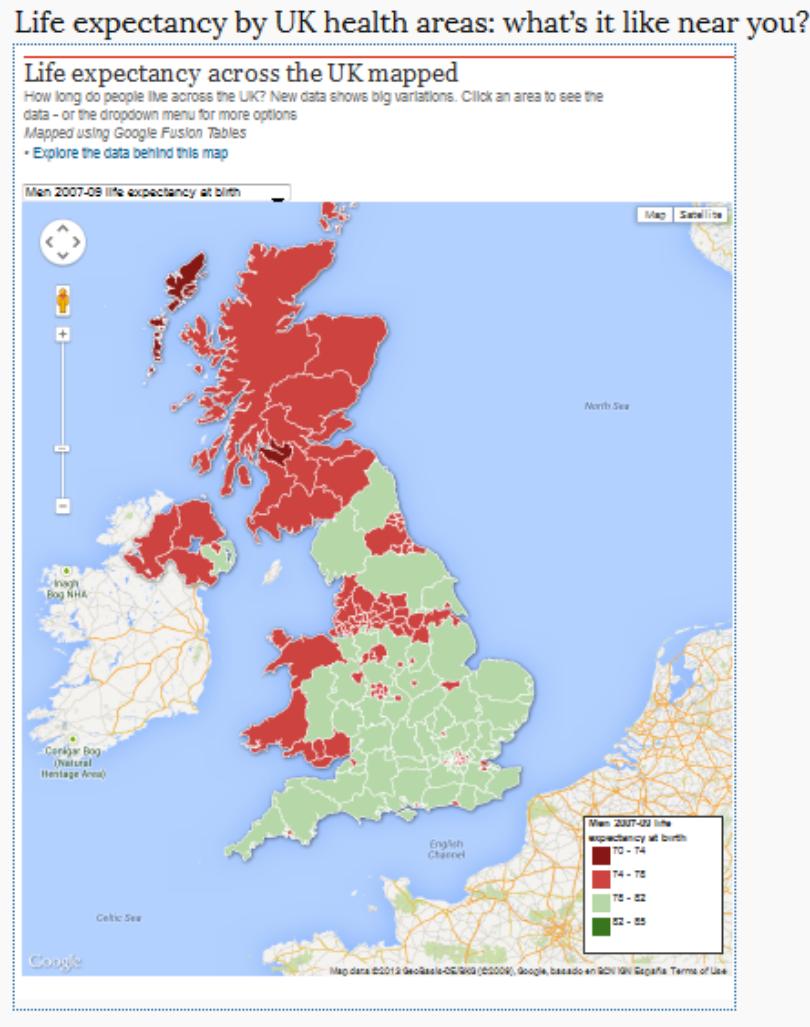
Source: Kenya Police, [Get the data](#)

Exercise

Make a pie chart using data wrapper of the distribution of crime cases per region.

REVIEW OF OTHER PROGRAMS

Google Fusion (accessed through gmail)



Pro

Merges geographical boundaries with data

User-friendly interactive mapping

Can embed charts in maps

Con

Advance functions require coding

Requiring accurate boarder files

Tableausoftware.com

Where journalist lives are at risk

World map of journalists killed since 1992



About Tableau maps: www.tableausoftware.com/mapdata

Number of Journalists killed



Source: Committee to Protect Journalists

Share 



See more by this author



Since 1992 almost a thousand journalists have been killed in their line of duty.

More than 15 percent of them died in Iraq.

Type of death



Type of Death	Percentage
Crossfire/Combat-Related	~15%
Dangerous Assignment	~15%
Murder	~60%
Unknown	~10%

Pro

Accepts big data

Wide range of charts/filters

Combines maps and charts

Can produce multi media packages

Con

Takes time to master interface

Picky on data format

Does not recognize counties

Infogr.am



Pro

Pictorial charts
Funky design

Con

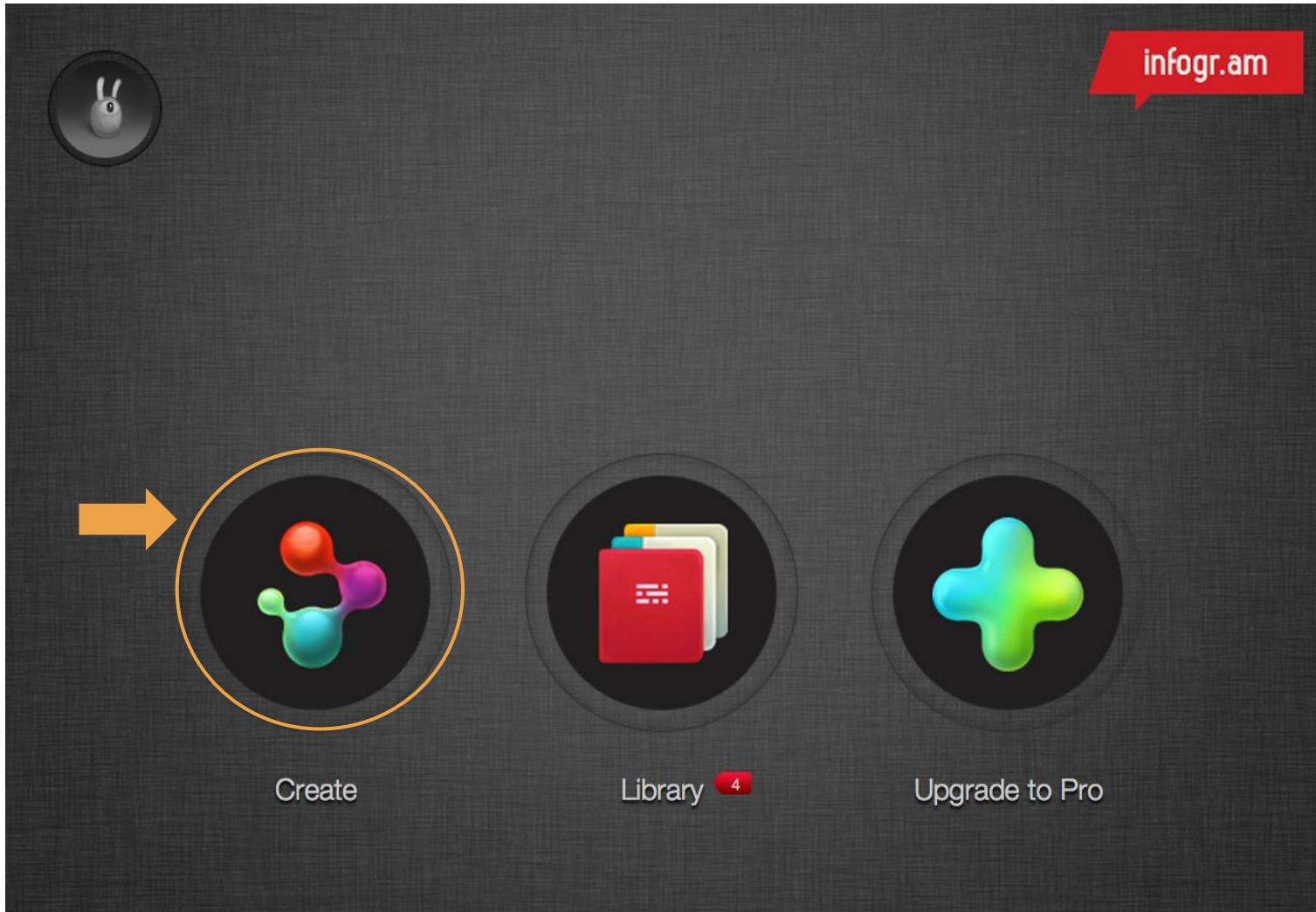
Does not accept big data
Data is made public
Free version can only embed

INFOGR.AM CHART STEP BY STEP

Register (www.infogr.am)



Go to create



Choose a chart

The screenshot shows the infogr.am interface. At the top, there are two circular icons: one with a rabbit and one with a house. Below them are two tabs: "Infographics" and "Charts". A red speech bubble in the top right corner contains the text "infogr.am". On the left, a sidebar lists various chart types with arrows pointing to their counts: Bar (4), Column (4), Pie (3), Line, Area (3), Scatter (2), Bubble (2), Pictorial (3), Hierarchy (2), Table, Progress (2), Wordcloud, Treemap, and Financial (2). An orange arrow points from the sidebar towards the "Line" category. The main content area is titled "Lines" and displays a line graph with three data series. The x-axis has values 5, 10, and 15. The y-axis ranges from 0 to 60. The first series (blue) starts at (0, 30), peaks at (3, 55), dips to (6, 42), peaks again at (9, 58), and ends at (12, 20). The second series (orange) starts at (0, 50), dips to (3, 25), reaches a peak at (6, 20), rises to (9, 55), and ends at (12, 58). The third series (red) starts at (0, 5), rises to (3, 10), peaks at (6, 30), rises to (9, 58), and ends at (12, 58). Below the graph are buttons for "Cancel" and "Add chart". An orange arrow points from the "Add chart" button towards the bottom right.

infogr.am

Infographics Charts

Bar (4) >

Column (4) >

Pie (3) >

Line >

Area (3) >

Scatter (2) >

Bubble (2) >

Pictorial (3) >

Hierarchy (2) >

Table >

Progress (2) >

Wordcloud >

Treemap >

Financial (2) >

Lines

Cancel Add chart

Double click on the graph to edit

Profile



Home



Library



Here



infogr.am



Add a chart



Add map



Add text



Add a photo



Add a video

Download “EA_life_expectancy_at_birth.xlsx”

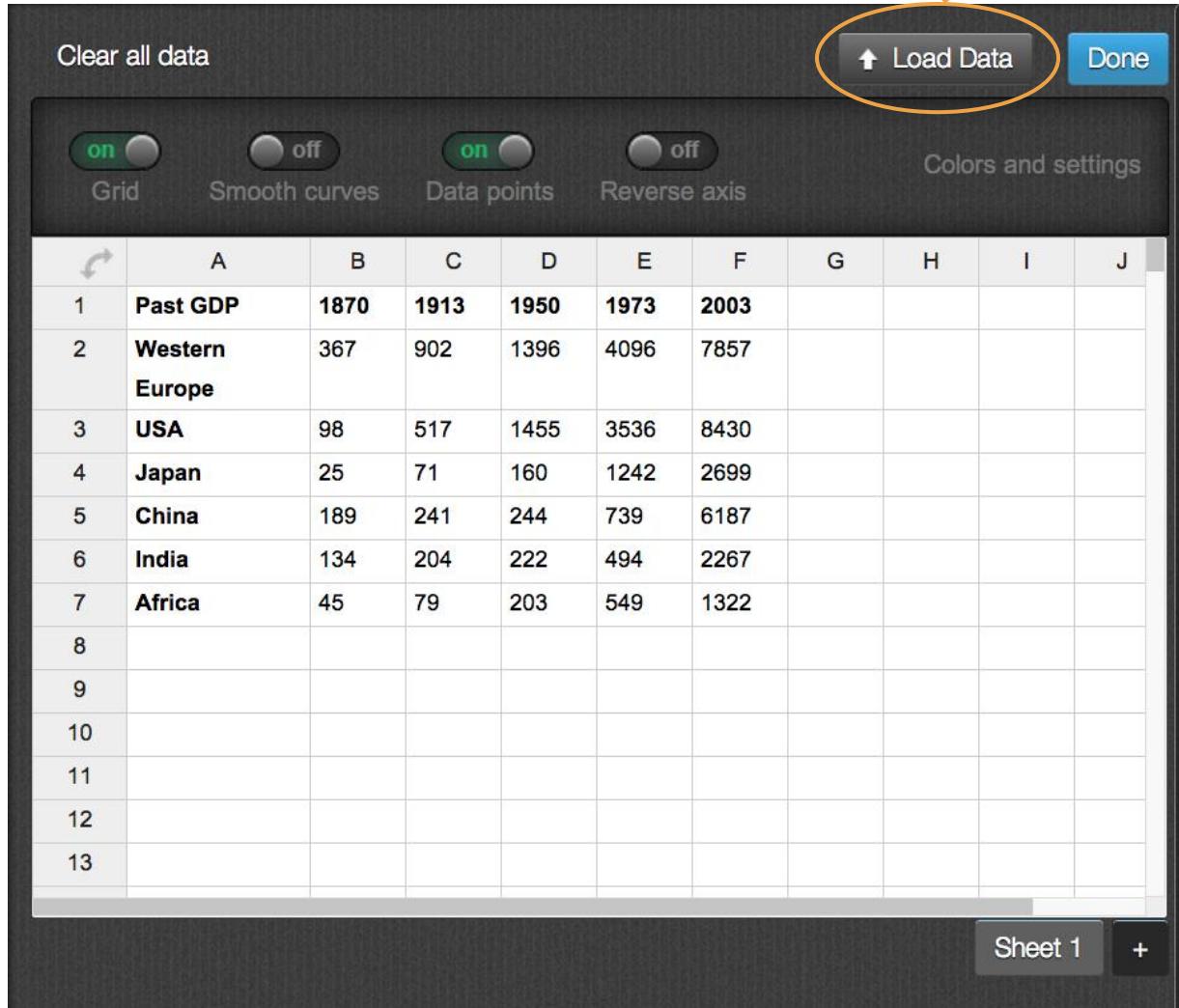


<http://bit.ly/17rz0Lc>

! When you use your own data make sure it is formatted in the same way as the infogr.am dummy data.

Adding the data

Click here

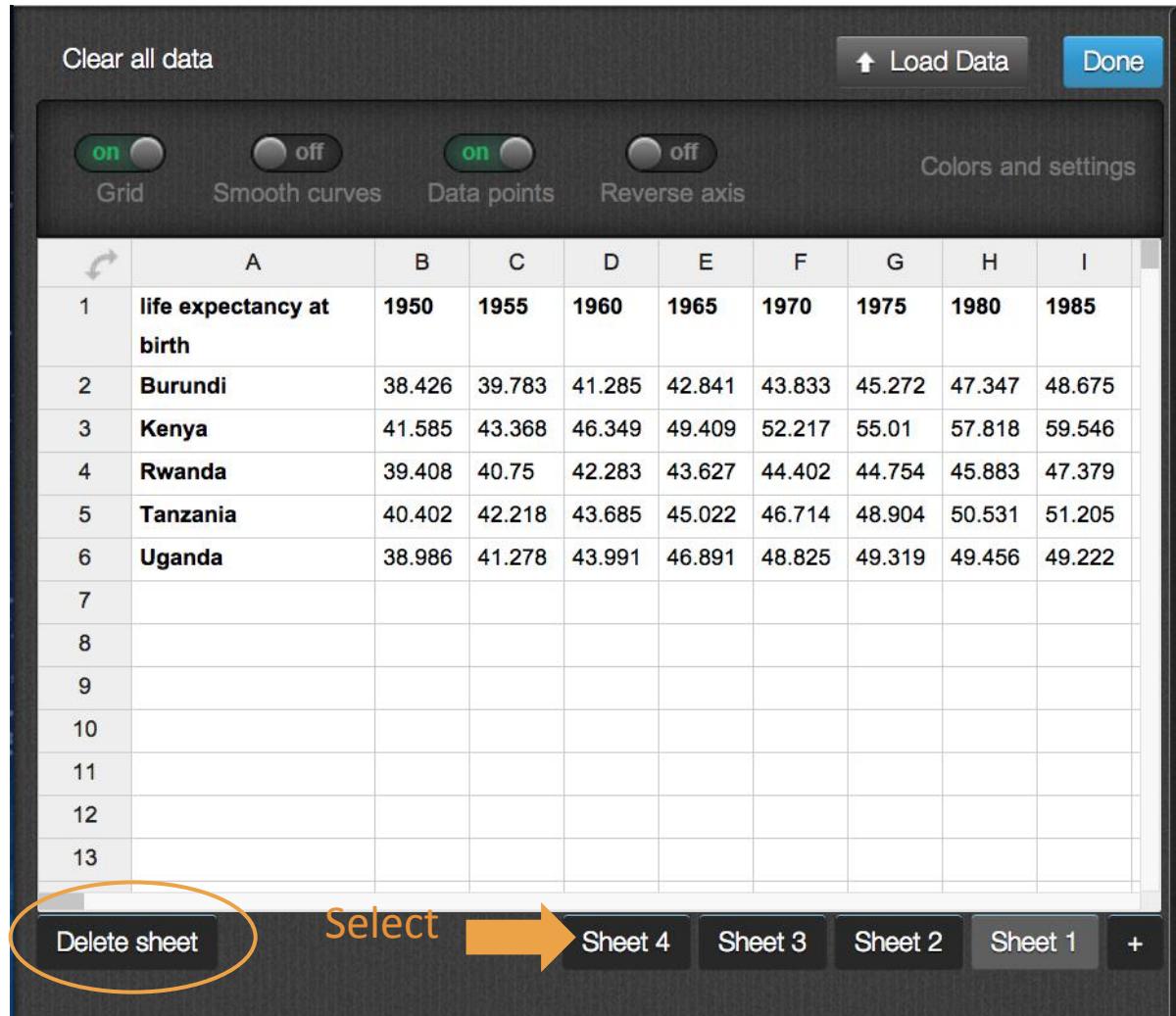


Click on Load data

Select the your
spreadsheet in
the pop-up
window

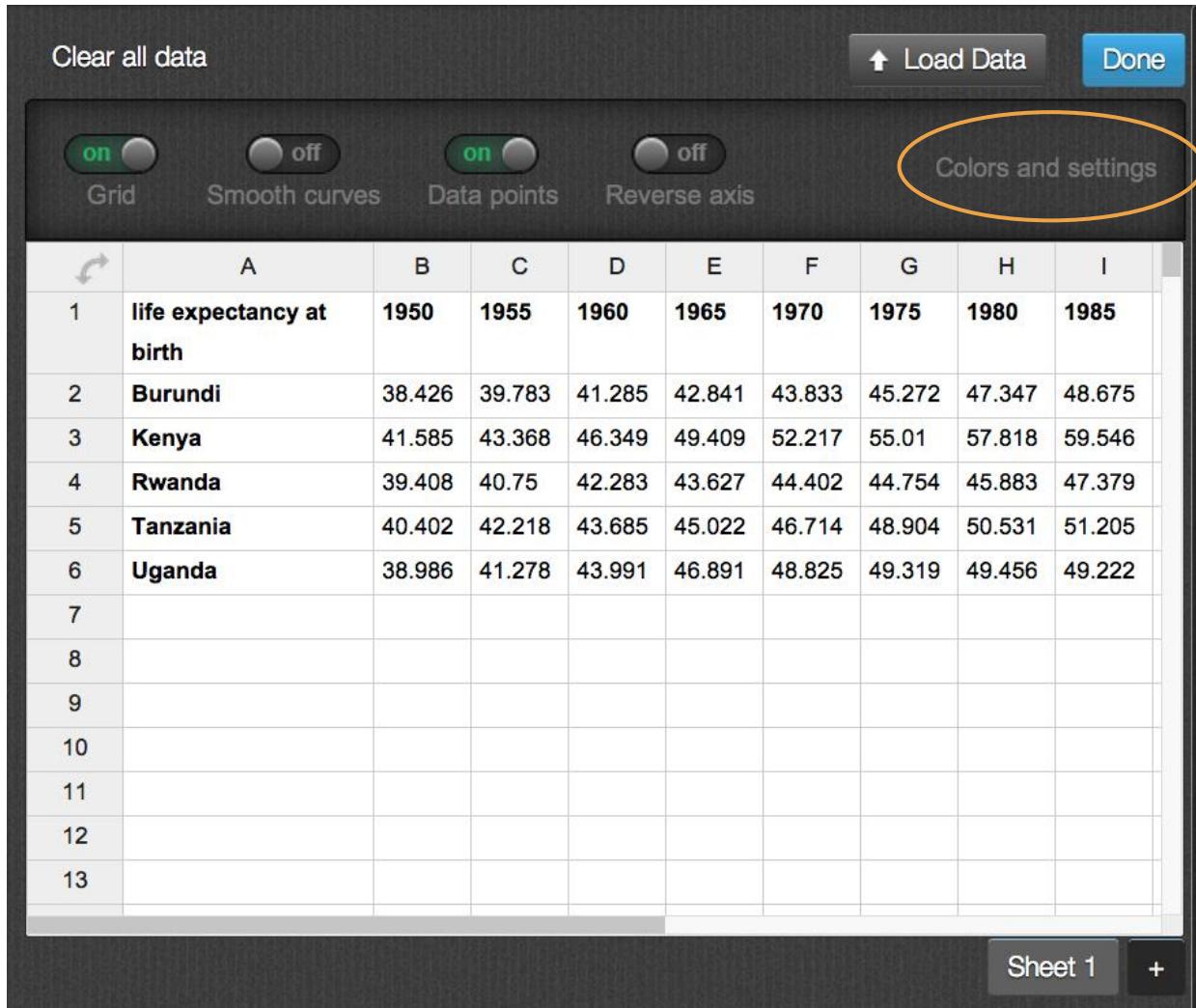
Click on Done

Delete unwanted sheets



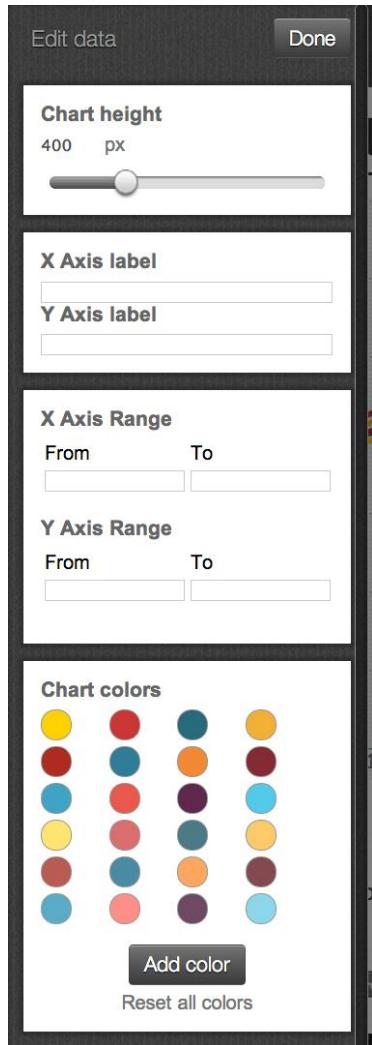
Select and delete
Sheet 4, 3, and 2
which contains
sources of data etc
(one at a time)

Adjust colors & labels



Click on Colors and settings

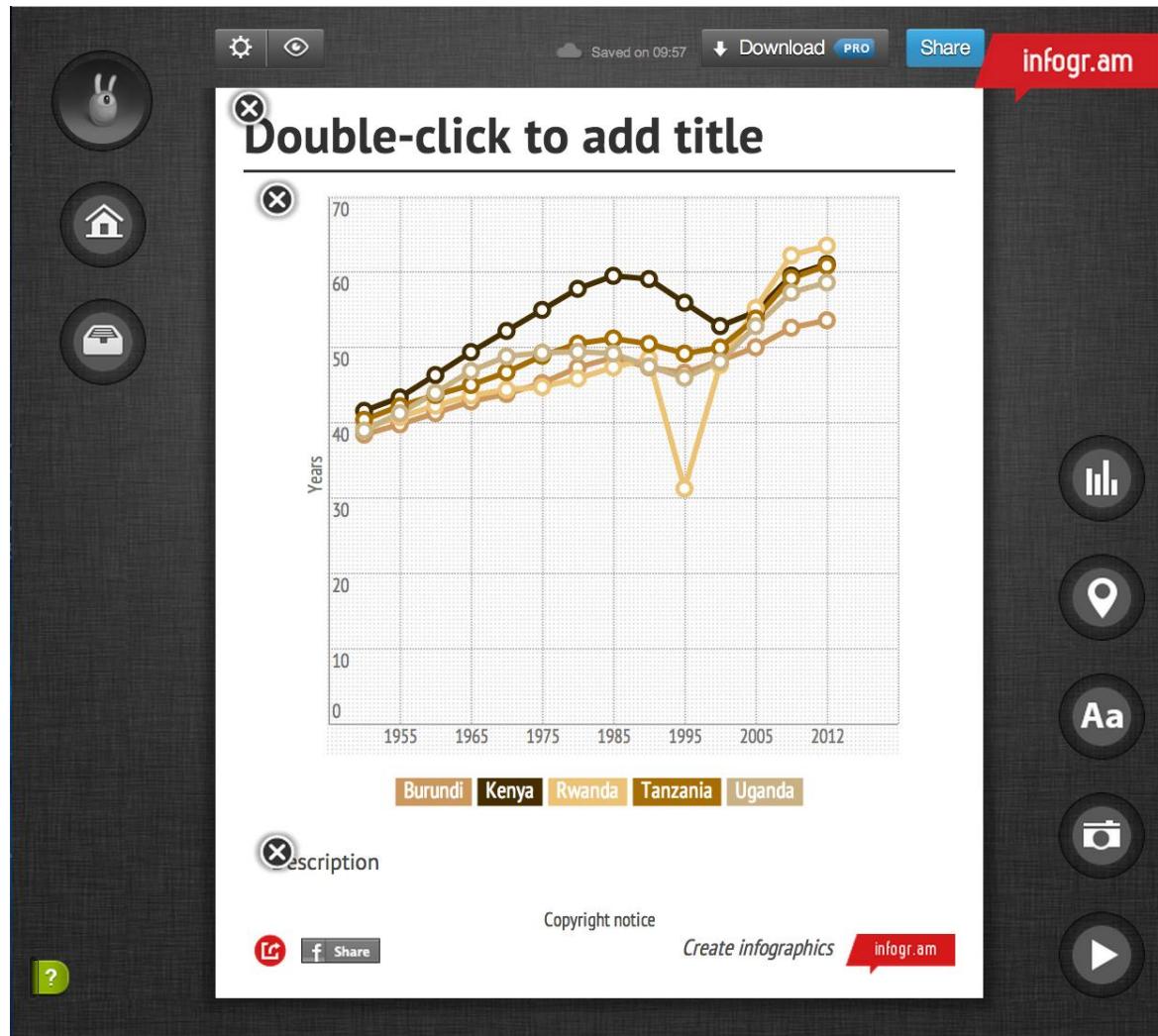
Adjust colors & labels



Click on the color of the palette to edit
Put in RGB/HSB or web color RGB code
Add “years” as the label of the Y axis



Adjusting text & headlines



Change or delete
the graphs text
and headlines.

Publish to web

Click here



Rwandans live longest in E.A.

Years

1955 1965 1975 1985 1995 2005 2012

Burundi Kenya Rwanda Tanzania Uganda

① years ago life expectancy were about 40 years in all of the countries in the East Africa Community. After 1995, when Rwandans life expectancy dropped to 31 as an effect of the 1994 genocide, the average expected life length in Rwanda has grow progressively. In 2012 Rwanda's life expectancy at 63 is the longest, while Burundians life expectancy is 10 year less at 53 years.

Data from www.gapminder.org

Share Create infographics infogr.am

When you click on the share button you will get an dialog window
Choose prefered platform or web

