Motion Chart tutorial



1. How to download data from Gapminder?

It will lead you to this page http://spreadsheets.google.com/pub?key=phAwcNAVuyj0-LE4StzCsEw

Add "&output=xls" to the end of this URL <u>http://spreadsheets.google.com/pub?key=phAwcNAVuyj0-LE4StzCsEw&output=xls</u>

	A	В	С	D	E	F
1	Countries	Year	Color groups	Indicator1 (X)	Indicator2 (Y)	Indicator3 (Size)
2	Country1	Year1	Color1	-	-	_
3	Country1	Year2	Color1	-	-	_
4	Country1	Year3	Color1	-	-	_
5	Country1	Year4	Color1	-	-	_
6	Country1	Year5	Color1	-	-	_
7	Country1	Year6	Color1	-	-	_
8	Country1	Year7	Color1	-	-	_
9	Country1	Year8	Color1	-	-	_
10	Country1	Year9	Color1	-	-	_
11	Country1	Year10	Color1	-	-	_
12	Country2	Year1	Color1	-	-	-
13	Country2	Year2	Color1	-	-	_
14	Country2	Year3	Color1	-	-	_
15	Country2	Year4	Color1	-	-	-
16	Country2	Year5	Color1	-	-	-
17	Country2	Year6	Color1	-	-	-
18	Country2	Year7	Color1	-	-	_
19	Country2	Year8	Color1	-	-	-
20	Country2	Year9	Color1	-	-	-
21	Country2	Year10	Color1	-	-	_
22	Country3	Year1	Color2	-	-	_
23	Country3	Year2	Color2	-	-	_
24	Country3	Year3	Color2	-	-	_
25	Country3	Year4	Color2	-	-	-
26	Country3	Year5	Color2	-	-	_
27	Country3	Year6	Color2	-	-	-
28	Country3	Year7	Color2	-	-	-
29	Country3	Year8	Color2	-	-	-
30	Country3	Year9	Color2	-	-	-
31	Country3	Year10	Color2	-	-	_
32	Country4	Year1	Color2	-	-	_
22	Countmad	Veem2	Color?	_	_	_

2. Modify your tables into one working sheet like this:

1st and 2nd column must not be changed!

Data Format

- **The first column** must be of type 'string' and contain the entity names (e.g., "Apples", "Oranges", "Bananas" in the example above).
- **The second column** must contain time values. Time can be expressed in any of the following formats:
 - Year Column type: 'number'. Example: 2008.
 - Month, day and year Column type: 'date'; values should be javascript Date instances. (2010-01-26)
 - *Week number* Column type: 'string'; values should use the pattern YYYYWww, which conforms to <u>ISO 8601</u>. Example: '2008W03'.
 - Quarter Column type: 'string'; the values should have the pattern YYYYQq, which conforms to <u>ISO 8601</u>. Example: '2008Q3'.
- **Subsequent columns** can be of type 'number' or 'string'. Number columns will show up in the dropdown menus for X, Y, Color and Size axes. String columns will only appear in the dropdown menu for Color. See the example above.

3. Upload your finalized table into Google Doc http://docs.google.com/

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4. Click on the uploaded file to open the spreadsheet



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- 5. Insert "Motion Chart" gadget into your spreadsheet

6. Select the "Motion Chart" gadget



- Google docs Motionchart test 1 File Edit View Insert Format Form Tools Help Abc A -\$ % 123 -10pt 🔻 B **•** == Σ C E F G A В D Н I J ▼Edit Motion Chart by Google 1 Countries Years 2 Afghanist 1952 Help X Sheet1IA1:F2341 Range 3 1957 Afghanist 1962 4 Afghanist Number of header rows Auto 👻 5 Afghanist 1967 Title 6 Afghanist 1972 7 Afghanist 1977 Default state 8 Afghanist 1982 * 必填 9 Afghanist 1987 10 Afghanist 1992 11 Afghanist 1997 Apply Apply and close 12 Afghanist 2002 13 Afghanist 2007 14 Albania 1952 15 Albania 1957 Edit the settings and click apply to see the gadget. 16 Albania 1962 17 Albania 1967 18 1972 Albania 19 4.231 1977 68.93 2509048 Europe & Albania 20 1982 Albania 3.503 70.42 2780097 Europe &
- 7. Set the correct data range of your file and apply the gadget

8. Set the graph and save its default state (Tools -> Advanced -> Advanced)



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9. Publish your graph

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You will get a URL like this:

http://spreadsheets.google.com/pub?key=t0PRgyW8BuhHQ1z5bWRG0dg&output=html

10. Publish your gadget (optional)



Click on the bubble graph, then click on the left upper corner "Gadget", and then click on "Publish Gadget" in the menu.

Copy the very long URL, open the "Notepad" in Windows, paste the URL inside, and save it as a html file.