

Intro to Fusion Tables

I am starting to get a grip on using fusion tables, so here is a small intro.

[Eli Fisker](#)

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Open Fusion Table

Link to the Fusion Table Omei made over the spreadsheet that Meechl send him:

[Google Fusion Table](#)

Here is the background forum post:

[Additional descriptive data](#)

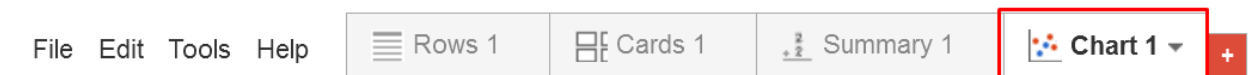
Making a graph

First choose Chart

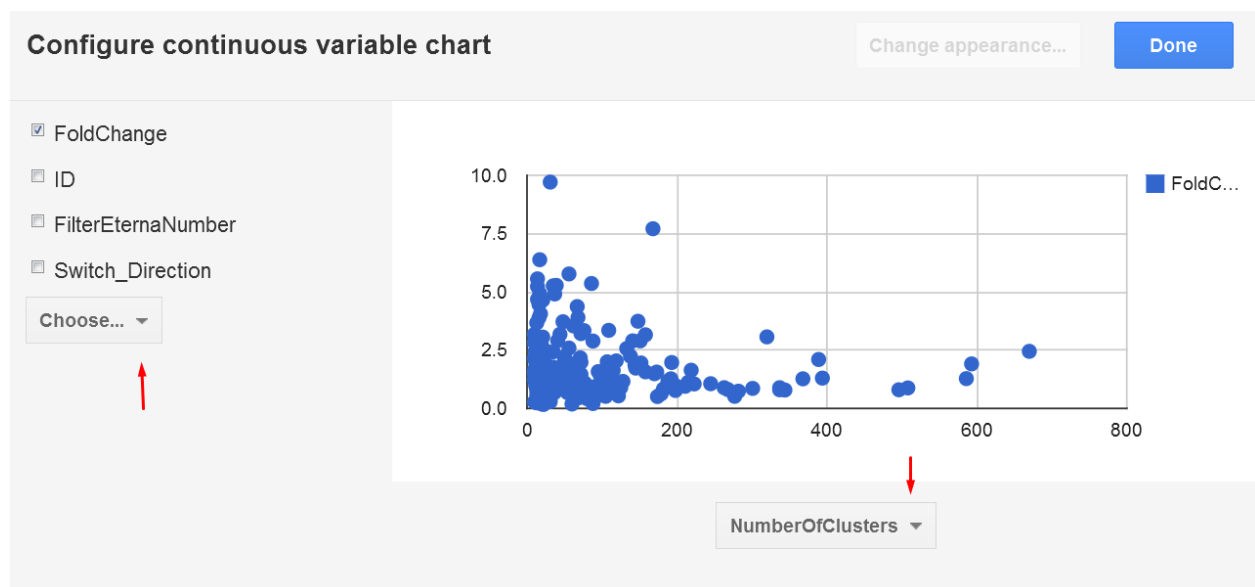
MS2 88 and 93

Imported at Sun Apr 12 11:18:24 PDT 2015 from MS2 88 and 93. Source:: Meechl's spreadsheet (... [more >>](#)

Attribution unknown - Edited at 8:28 PM

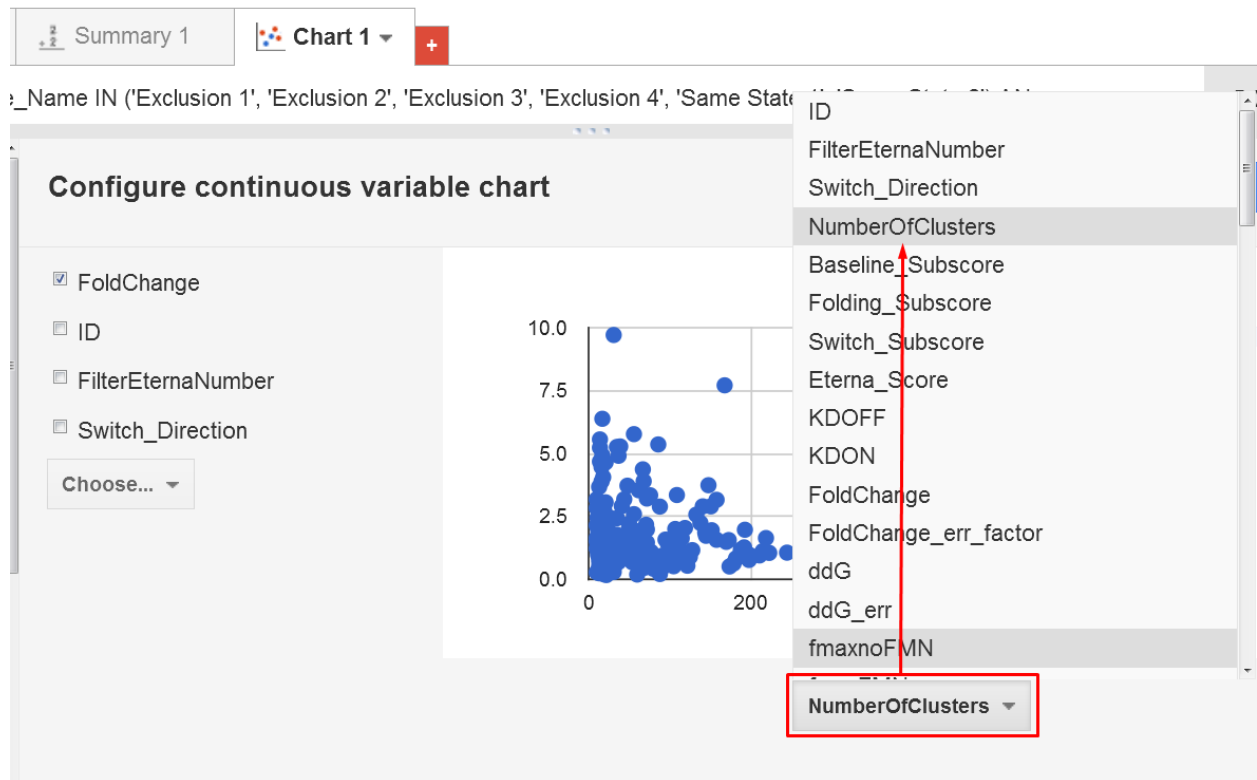


This will give you a graphs field. In this field - **Configure Continuous Variable Chart** - one can choose two of the data columns from the spreadsheet, to run against each other.



I choose to compare fold change against numbers of clusters. Just to see if there were any relation. I honestly had not expected to see any. But the designs that have a huge number of clusters, don't seems to be very good at switching. I have no idea why.

How to change what you want to compare

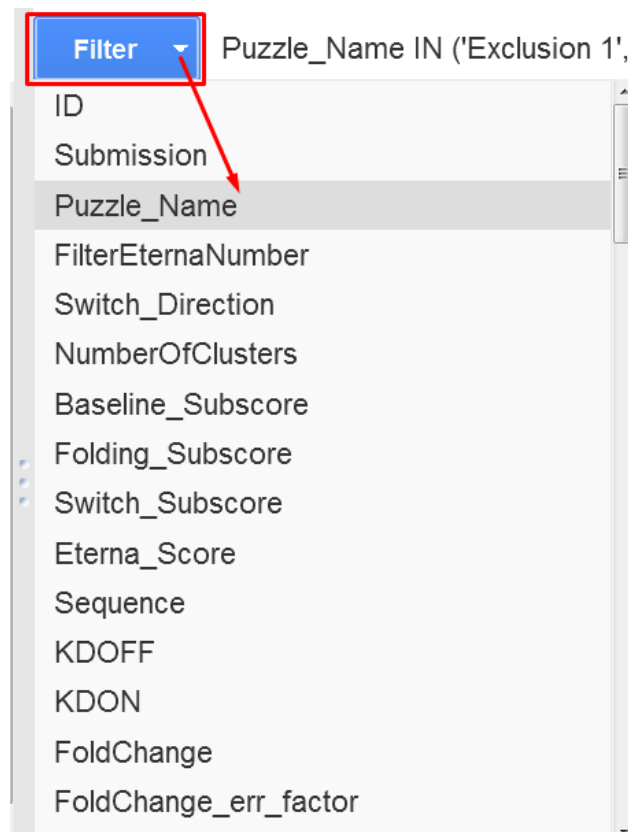


Adding a filter

Choosing what data to look at

When playing with a big data sheet you may not want to watch all the data. You can limit what data you are looking at. I want to specify which labs I look at.

To do this you can add a filter:



Puzzle-Name will give you the name of the individual labs. This will give you a list where you can tick of which you wish to view.

Puzzle_Name

Find

6 distinct values

☒	Exclusion 1	777
☒	Exclusion 2	1,030
☒	Exclusion 3	988
☒	Exclusion 4	1,110
☒	Same State 1	903
☒	Same State 2	243

Now this menu after **Filter** shows what data I have selected.

Cards 1

Summary 1

Chart 1

Filter

Puzzle_Name IN ('Exclusion 1', 'Exclusion 2', 'Exclusion 3', 'Exclusion 4', 'Same State 1', 'Same State 2') AN...

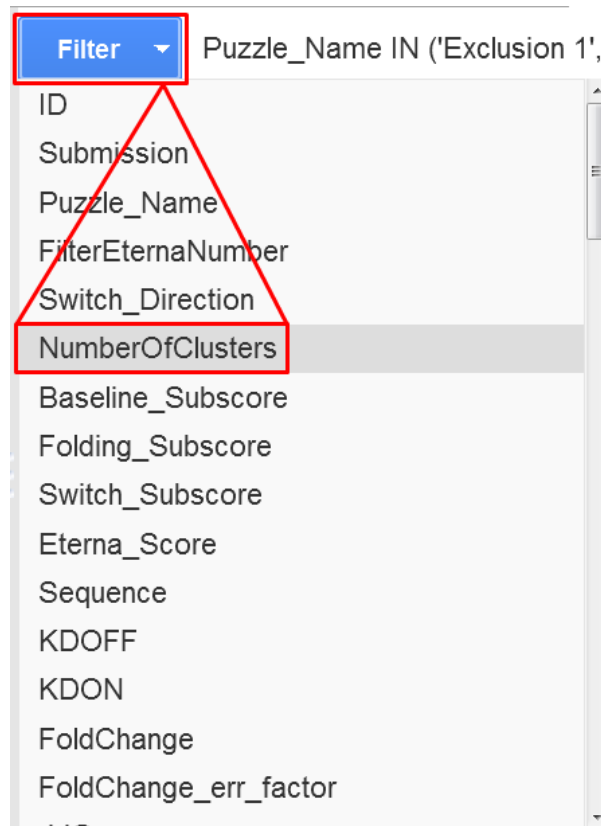
Not saving

5,051 rows

Adding more filters

However I still haven't asked the questions I want to ask the data. I wish to only see the data for designs that have more than 10 clusters, since data that has very few clusters are not very certain.

So I add a filter more. This time I pick **NumbersOfClusters**.



Now a new filters version pops up in the left side of the window.

File Edit Tools Help Rows

6 distinct values

☒	Exclusion 1	779
☒	Exclusion 2	1,030
☒	Exclusion 3	988
☒	Exclusion 4	1,115
☒	Same State 1	903
☒	Same State 2	243

NumberOfClusters - X

- Find

7,356 values from 1 through 2,136

It tells me the range of clusters there are. From 1 to 2136. And how many of the data points in the spreadsheet that has a cluster number attached to it. (7356)

So now I just limit start number to 10 and choose all the rest of the cluster numbers and click find and the graph will update.

NumberOfClusters - X

10 - 2136 Find

7,356 values from 1 through 2,136

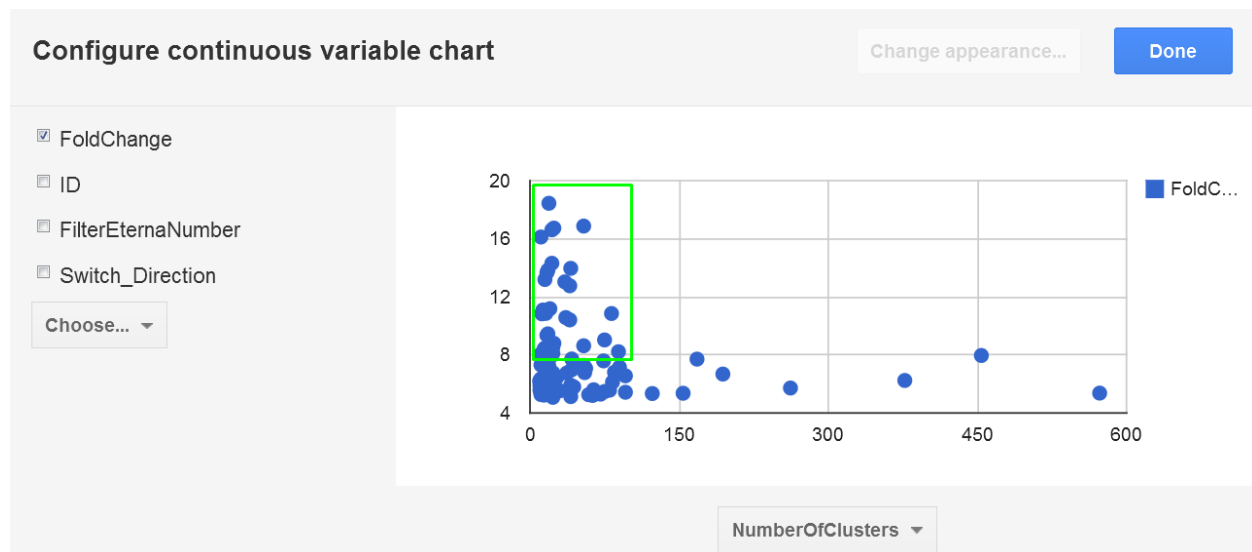
Now I want to limit the data also to the better scoring ones. So I choose to filter with **Eterna_Score** and sets it to count data with folding score 80% and up.

Eterna_Score - X

80 - 100 Find

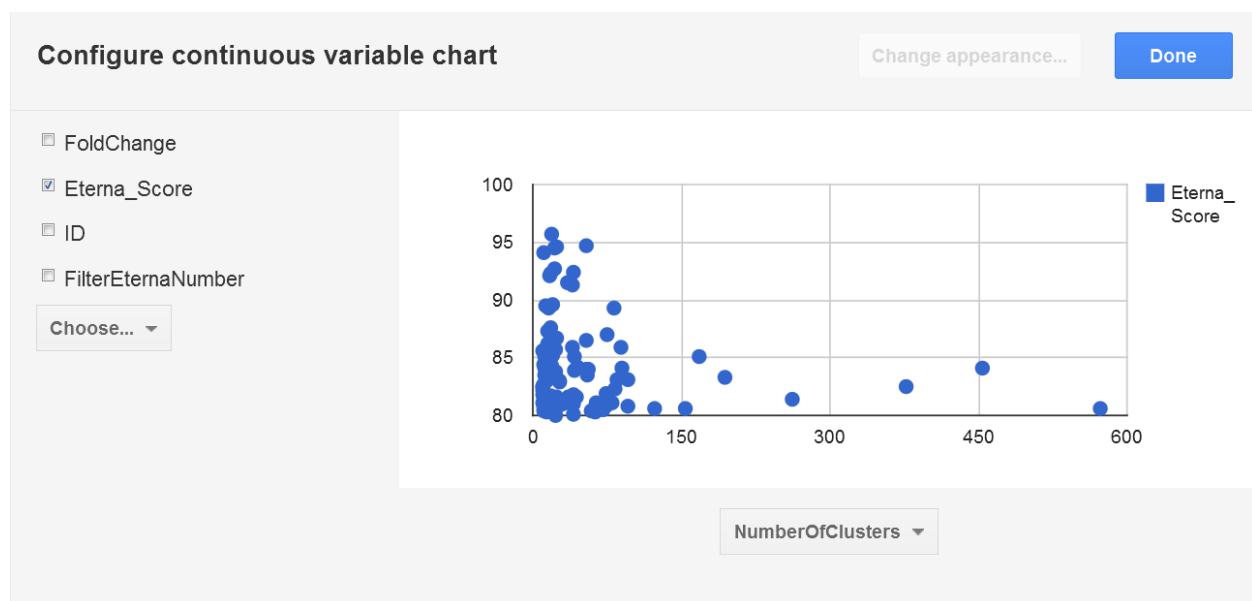
5,058 values from 0 through 95.7

Most of the data that has large folding shift, which means a switch is happening, have a cluster size of below 150 clusters.

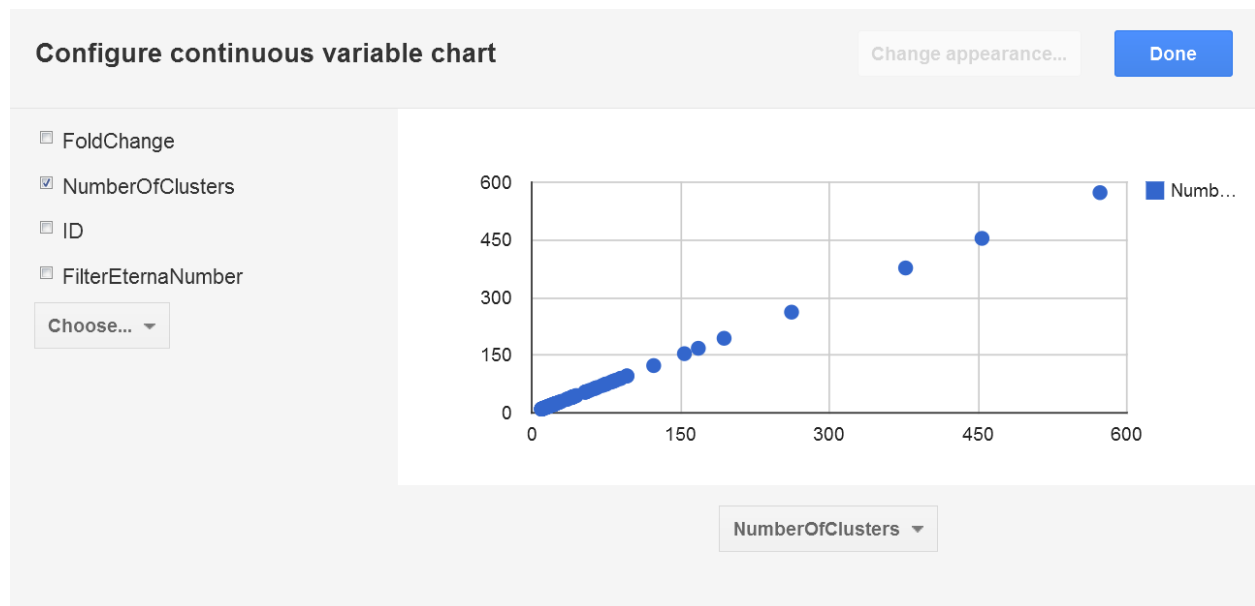


Getting an idea of the data distribution

There seems to be no relation between FoldChange and numbers of clusters. When I change FoldChange to show EternaScore versus FoldChange, I get a similar image. There simply are few designs that have really many clusters.



This becomes clear when I run **NumberOfCluster** against **NumberOfCluster**. Most of the designs have cluster size of below 150. Mystery solved. :)



Clever use of additional filters

For adding of more filters that will help you look at the best data, check out Omei's analysis of Maslow designs. Its practically a guide to Fusion tables.

[Variations on the Maslow design, Round 2](#)

Also jandersonlee has made a really fine guide on how to create fusion tables and how to find close to identical designs.

[Creating a Nearby Solutions Fusion Table](#)

Written 13 April 2015, last update 17 April