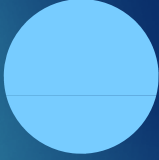


# Google Fusion Table

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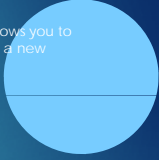
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## Purpose

- ▶ Google Fusion Tables is a data management tool that allows you to come to new conclusions about your data by seeing it in a new way



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## Examples



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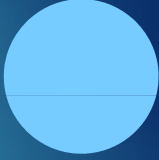
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### Today we will learn

- ▶ How to create data mashups
- ▶ How to map data with location information
- ▶ How to let others access your data



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### Data Mashing

- ▶ Creating Data
- ▶ Importing Data
- ▶ Searching for Data
- ▶ Merging Data



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### General Limits

- ▶ Users have a limit of 1Gb of data storage for Fusion Tables
- ▶ 250Mb limit per table



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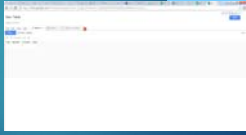
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## Creating Tables

- ▶ Log into your Google Account and go to Fusion Tables
- ▶ From here you can open a preexisting document or create a new one
- ▶ When you create a new table, it will have four columns that you can change to suit your needs
- ▶ It is often easier to begin with a table already created in excel




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## Creating Tables

- ▶ Column name and type can be changed, and new columns can be added
- ▶ Maps will attempt to geocode anything labeled as location data
- ▶ Location columns can have GPS coordinates or city and state addresses
- ▶ Text columns can be used for links, images, and YouTube embedding




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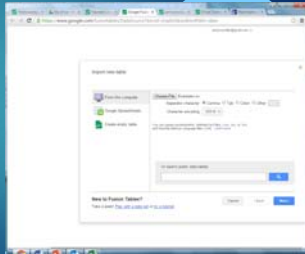
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## Importing Tables

- ▶ Upload spreadsheets, delimited text files (.csv, .tsv, or .txt), and Keyhole Markup Language files (.kml)
- ▶ Edit your spreadsheet before importing for best results
- ▶ Choose your separator character
- ▶ Choose the rows that your heading data is in. (Anything above it will be lost)




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## Importing Tables

- ▶ Change your file types so that your data shows up properly
- ▶ Location columns will need to be changed to *location*
- ▶ Picture columns will need to be changed to *text*, with a format of one of the image types
- ▶ The links will need to be changed to *text*, with a format of *link*




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## Location Columns

- ▶ Once you change the column to a *location* type you will need to geocode the locations that are highlighted in yellow
- ▶ Start by letting it geocode the locations it can automatically by adding a map to your table
  - ▶ It can geocode up to 10,000 items per day
- ▶ Anything missing can be fixed by editing the row, and clicking on the edit geocode button




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## Picture Columns

- ▶ To enable the display of images, select *text* as the main type
- ▶ The format can be *Single line image*, *Four line image*, or *Eight line image*
- ▶ Once you make this change the images will be visible in the table and on the map (if you have enabled them in the info window)




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## Searching Public Data

- ▶ A unique feature of Fusion Tables is the ability to merge your data with someone else's data
- ▶ Search the public tables to find data that might complement your data
- ▶ It will search the internet for publicly accessible data that can be exported directly into its own Fusion Table



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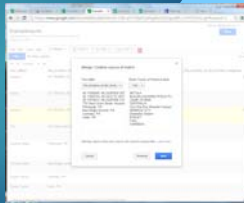
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## Merging Data

- ▶ Merging can be tricky, fix your data first
- ▶ The table you begin the merge with should be the one with the majority of the data
- ▶ The other table provides extra columns
- ▶ The source of the match has to match letter for letter (although it is case insensitive)



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## Merging Data

- ▶ Select the data that will show up in the final table
- ▶ A new table is created
- ▶ The new table will only add all of the data from the new table if you add a blank row to the first table
- ▶ Otherwise, only matching rows will be given new columns



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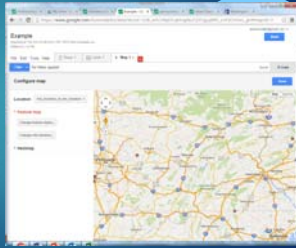
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## Maps

- ▶ It supports multiple location columns per row, so use the location drop down to select the one you want
- ▶ *Change feature styles* changes the look of the markers
- ▶ *Change info window* changes the pop ups associated with each marker
- ▶ Fusion Tables supports up to 350,000 features per map



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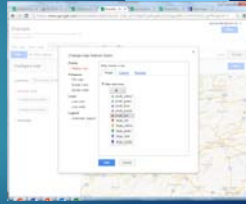
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## Change Feature Styles

- ▶ Individual locations can be shown a variety of different ways
- ▶ Use the *fixed* icon if you want everything to be the same color and style
- ▶ Use *column* if you have a column that list which styles are to be used
- ▶ Use *buckets* to adjust your icon based on one of your numerical columns



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## Change Info Window

- ▶ Use *Info Window* to show a pop up with additional information
- ▶ Select which information should show up when the icon is clicked



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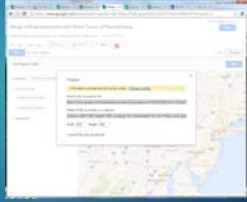
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## Sharing Data

- ▶ Once you have everything the way you want it, you can embed it on websites, or send the link to friends or colleagues
- ▶ Make sure to change the visibility settings to one of the public options
- ▶ You can show a limited version of the tables by creating a *view*



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