



Advanced Online Media

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Using the VID I Data Visualization Modules

We will be working with the VID I modules for their data visualization capabilities. There are several modules under VID I. The main VID I module has not yet been developed for Drupal 7. But you can install each one. Find them here drupal.org/project/vidi. Make sure to install the Drupal 7 version, even if it is not a recommended release. Install these modules using the method described in the Drupal Basics handout, install all dependencies, (Date API, Views, Schema, Feeds, etc.).

You will use the Feeds module (and dependent modules) to upload the data under a special content type. Instructions for D7 were modified from this very helpful tutorial <http://atendesigngroup.com/blog/drupal-imports-using-feeds-module>.

Develop a CSV that has a header row.

Set up special content type that matches the fields of the csv. (Structure, Content Types)

Go to the Structure, Feeds Importers

Create a New Importer – See New Importer Tab

Leave Basic Settings

Fetcher – Choose File Upload

Parser – CSV Parser

Processor - leave the default as Node processor

- Settings - Set content type you are importing content for
- Mapping - Match your CSV column headers to fields in your content type. Each column header that you wish to import should be added to this page.

Then go to yourdomain.com/import (also find import link on Feeds Importers Page).

Find the importer you just created.

Find your CSV and import it.

You should now see that your nodes were created under Content. Now you should be able to use these nodes in your modules.

To use the VID I modules, you create a View (Structure, Views).

- Add New View. We will be using a Page (but it's ok if you also make a block). Give it a name (one word), description. Show content of the type you created.
- Under Create a page, change Display Format to GVS of Fields. You can create a menu link if you want it to show on the menu. Continue and Edit takes you to the

Edit Page.

- You have to Add your Fields. Search for the node Content Type. Select them. It will step you through.
- Once you have it set up properly, you should be able to see your chart by clicking on View Page.
- You can adjust the size of it under Format, Settings.

DataViz.org

Or you can also visit dataviz.org to learn more about the VIDL modules. This allows you to upload your data to the dataviz.org servers. We will decide which method to use for the project. If you use the online modules, we will set up one login for their usage for the HSI project, so that we can retain control of the data once you leave the class.

We will look at several types of modules. For today, start your own login on dataviz.org. For each chart type, if you click Read More, you should be able to download the csv (comma separated value) file. You can open in Excel or TextEdit to change, then re-upload to see your chart.

Maps

Tag Map – show location and proportion; requires latitude and longitude; text; numerical value for weighting; text to be shown in info cloud.

Intensity Map – highlights regions or countries based on relative values; Country ISO Codes or State Codes and then numerical columns.

Geo Map – map of a country, continent, or region map, with colors and values assigned to specific regions; two formats, lat/long or allows for address, country, region or area code.

Timeline Map – load one or more datasets onto both a map and a timeline simultaneously; lat/long; start and end dates; title; description (don't worry about other charts not described here).

Comparative Data

Pie – shows proportions; text; number

Bar – column chart, stacked on side, comparing years; text; numerical columns

Area - good for trends over time, show overlap; text; numerical columns

Column – good for trends over time, multiple variables, show difference; text; numerical columns

Line – good for trends over time; text; numerical columns

Scatter – used to map correlation between sets of numbers; two or more numerical columns