Here is a few tips that may help you use these tools.

# Brief Description

What is this:

This is a Python Script-based tool to analysis the spatial distribution of international aid projects by Voronoi Analysis, based on the level 1 data of AidData.

This tool offer three kind of voronoi analysis:

* Standard mode
* Highlight mode
* Pair-wise comparision mode

Standard mode will just do voronoi analysis based on valid records. Valid records are chose by filter configuration, and we will explain details of filter in the later section.

Highlight

What type of tool

How to use / run this

# Package installation

This tutorial uses Python 2.7.x, and the following non-stdlib packages are required:

* IPython
* Pandas
* Numpy
* Matplotlib
* Basemap (Eugene Wang note: this cannot be installed by pip, look at [here](https://github.com/matplotlib/basemap) and find install section in ReadMe. Therefore, its dependencies Pyproj and pyshp is not installed automatically.)
* Shapely
* Fiona
* Descartes
* PySAL
* Eugene added) Pyproj (Python interface to PROJ.4 Library. Needed by Basemap)

The installation of some of these packages can be onerous, and requires a great number of third-party dependencies (GDAL *&* OGR, C *&* FORTRAN77 (yes, really) compilers). If you’re experienced with Python package installation and building software from source, feel free to install these dependencies (if you’re using OSX, Homebrew and/or [Kyngchaos](http://www.kyngchaos.com/software/frameworks) are helpful, particularly for GDAL *&* OGR), before installing the required packages in a virtualenv, and skipping the rest of this section.

For everyone else: Enthought’s [Canopy](https://www.enthought.com/products/canopy/) (which is free for academic users) provides almost everything you need, with the exception of Descartes and PySAL. You can install them into the Canopy User Python quite easily, see [this support article for details](https://support.enthought.com/entries/23389761-Installing-packages-into-Canopy-User-Python-from-the-OS-command-line).

# Files needed

# Input specification

* Simple parameter
* Filter parameter

# Expected workflow, examples

# Detailed explanation of Input Variables