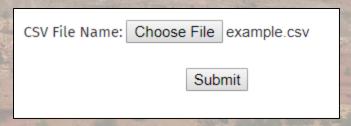


Instructions:

- Upload a .csv file formatted as:
 - X, Y, Z, Name
 - Example:

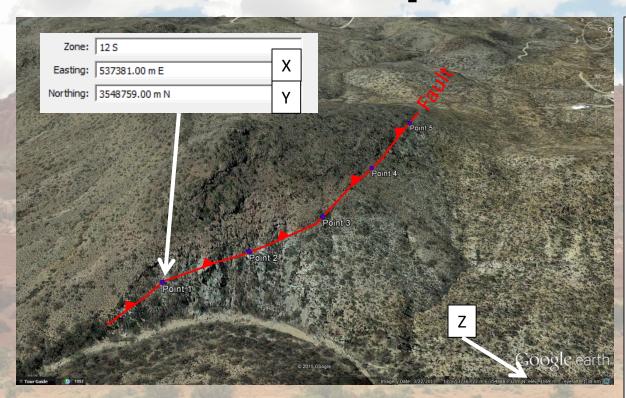


example.csv - Notepad

File Edit Format View Help
2044294,6928535,-240,fault1
2044534,6928248,-1000,fault1
2044624,6928429,-400,fault1
2044395,6928329,-600,fault1
2044399,6928043,-340,fault2
2044200,6928248,100,fault2
2044300,6928029,-248,fault2
2044500,6928299,-300,fault2

- Note that Z decreases with depth
- Multiple faults can be added at once.

Example Use #1:



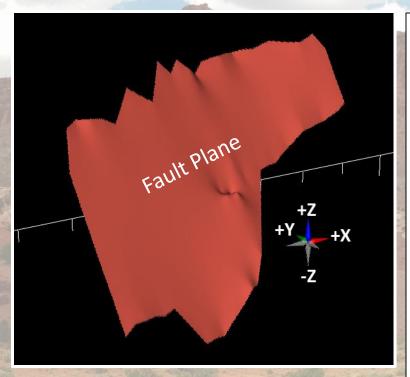
*It's important to note that Z decreases value with depth. So in this example, which is above sea level, Z would be positive. Seismic software often exports TVDSS values as positive, so make sure to check this!

Mapping in Google Earth or other satellite imagery is a great way to supplement field mapping.

Strike and dip of faults can be determined by taking XYZ points of the fault exposure on the surface and plugging them into the calculator.

Note that Google Earth has very, very poor resolution when it comes to Z values. Probably better off using a DEM to get more accurate values, but Google Earth works for most class-based mapping projects.

Example Use #2:



After exporting a fault data from seismic, edit the ASCII output to be X, Y, Z, faultname.

Note the Z value should decrease with depth. For example, if this fault were 20,000 ft below sea level, the Z value should be -20000.

Also note the input data was all referenced to the original point. This is not necessary.

Output Data:

Name	Strike	Dip	Direction
Original	70.2	47.3	Southeast

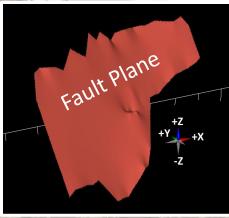
Input Data:

111	put	Da	la.	
0	0	0	Original]
-1311	3484	4466	Original]
-1611	23	792	Original]
-2580	2598	4099	Original]
-1156	233	825	Original]
-2085	2703	3960	Original]
-1980	-84	865	Original	
-3094	2445	4156	Original	1
-2438	-285	898	Original	1
-3633	2427	4189	Original	1
-2921	-428	931	Original	1
-4045	2123		Original	1
-3364	-663		Original	1
-4267	1387		Original	1
-273	3566	4115	Original	1
932	362		Original	1
366	4485		Original	1
2017	792		Original	L
2479	983		Original	100
909	4495		Original	100
2679	2987		Original	
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8103	6773		Original	1
9647	5849		Original	1
9034	7143		Original	1
10104	6054		Original	1
9656	6999		Original	1
2030	0555	7102	Ungiliai	1

Input Data:

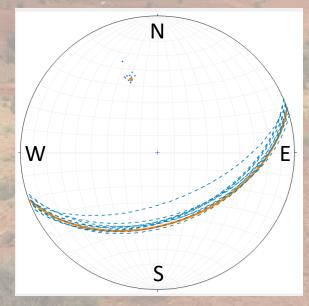
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Accuracy:



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Name	Strike	Dip	Direction
Original	70.2	47.3	Southeast
TPP9	68.3	47.3	Southeast
TPP8	66.4	50.3	Southeast
TPP10	73.6	48.8	Southeast
TPP5	69.1	45.6	Southeast
TPP4	71.0	48.7	Southeast
TPP7	66.7	49.6	Southeast
TPP6	70.3	50.2	Southeast
TPP1	69.1	60.4	Southeast
TPP3	68.4	50.6	Southeast
TPP2	72.5	51.6	Southeast

Taking three random points from the original input data and performing a three point problem (TPP) on them yields similar results, but can be off by 13° or more in this case. The best fit plane method yields more accurate results.



Rick
Allmendinger's
Stereonet 9.
Orange is original
data using best fit
plane method,
blue is 10
iterations of three
point problems.