Geologic Map CartoScripts™

CartoScripts™ give you the ability to design custom map symbols for lines and points in vector and CAD objects. You can also select alternate symbols and vary the symbol elements using attribute values in database tables attached to the object. To illustrate the power of CartoScripts, MicroImages has created a set of free scripts designed to render the specialized line and point symbols for geologic and geotectonic maps. All of the scripts set the size of point symbols and line elements in millimeters relative to the scale of the printed map. You can edit the scripts to set the desired map scale, element sizes, and color. Since these scripts use many of the CartoScript functions in varied combinations, you can also study them for ideas on how to create your own custom map symbols.

Download free at: www.microimages.com / freestuff / cartoscript

Fold Axis Lines	Solid	Dashed
Anticline	anticln1.qry	antclin2.qry
Overturned Anticline	anticln3.qry	antclin4.qry
Anticline (alternate)	anticln5.qry	antclin6.qry
Syncline	synclin1.qry	synclin2.qry
Overturned Syncline	synclin3.qry	synclin4.qry
Syncline (alternate)	synclin5.qry	synclin6.qry

Fault Lines	Solid	Dashed
Normal	normflt1.qry	normflt2.qry
Normal (alternate)	normflt3.qry	normflt4.qry
High Angle Dip Slip (U / D)	hidsflt1.qry	hidsflt2.qry
Thrust	thrsflt1.qry	thrsflt2.qry
Left-Lateral Strike-Slip	ssfltlf1.qry	ssfltlf2.qry
Right-Lateral Strike-Slip	ssfltrt1.qry	ssfltrt2.qry

Some of the line symbols are drawn on a particular side of each line (left or right relative to the start point). You can use the Spatial Data Editor if needed to swap the start and end of individual lines to achieve the correct orientation. The point symbols use numerical attributes in particular fields in a database table to orient and label each symbol and to select symbol variants. To use these scripts you must edit them to reference the correct field and table for your data.

Geotectonic Map Symbols	Solid	Dashed
Left-Lateral Transform	trnfltl1.qry	trnfltl2.qry
Right-Lateral Transform	trnfltr1.qry	trnfltr2.qry
Spreading Axis or Ridge	ridge1.qry	ridge2.qry
Suture	suture1.qry	suture2.qry
10.0 Plate Motion Direction and Rate	arrow.qry	

Point Symbols for Attitude of Outcrop Features

Strike and Dip of Planar Features

Note: Strike direction must be specified in azimuth using the right-hand rule.

21 63 Bedding: inclined, overturned, vertical, horizontal		bedding.qry
78 Cleavage: inclined, vertical		cleavage.qry
41 Foliation: inclined, vertical		foliatn.qry
85 Joint: inclined, vertical		joint.qry

Trend and Plunge of Linear Features

27	Mineral Lineation	lineatn.qry
11	Intersection Lineation	intrsect.qry
18	Minor Fold Axis	minfold.qry
34	Crenulation Axis	crenaxis.qry