



A new configuration file "station-shapes.conf" can be found in the MySurvey folders:

- In DATA/ for your project, or
- In PROGRAMDATA/ in MySurvey.exe

MySurvey uses this file to choose a representation for each "bullet" on the 2D map. If both files (project and application) are present, the project file is read.

Given the richness of this new system, a pre-prepared file is provided with MySurvey containing comments to explain the formats used. You may modify this if you wish while MySurvey is open. The changes are reflected in real time when you hover or click in the MySurvey window.

Composition of the file:

The file defines polygonal shapes for the different stations. It consists of lines, each line being either:

- a comment, starting with two hash key symbols: ##
- a reusable definition further down the file. Useful for naming a colour or a shape, for example. They have the form ::name:: param 1 + param2 + ...:
 - See the definitions section for an explanation of the definitions
 - See the parameters section for an explanation of the parameters
- a representation for a station type, in the form selector :: param1 + param2 + ...:
 - see the selectors section for a detailed explanation

Parameters

Parameters can be added one behind the other, but a new parameter overwrites the previous definition of the new parameter in the reading direction.

A parameter is generally described by `{parameter-name}:{value}`

Parameters can be:

Basic parameters

- `sections:{number}`: how many sides the polygon has
 - fewer than 3: a circle then a regular polygon of this size. The first vertex is placed "up" by default
 - Example: `sections:5` makes a pentagon.
- `fill-colour:{colour}`: fill colour. Colours can be set as R (red), G (green), B (blue) in several ways:
 - a sequence of three numbers between 0.0 and 1.0, separated by spaces.
 - three integers between 0 and 255, separated by spaces or commas
 - a hexadecimal colour "RRGGBB"
 - Examples:
 - 0.0 0.0 0.0 is black (no colour)
 - 1.0 0.0 0.0 is very red
 - 100,100,100 is a grey with an intensity of around 2/5
 - 00FFFF is Cyan
- `line-colour:{colour}`: outline colour. In the same formats as for fill-colour.
- `alpha:{number between 0.0 and 1.0}`: an indication of transparency where 0.0 is invisible and 1.0 is full.
- `line-size:{number greater than or equal to 0.0}`: the thickness of the line (applied as a multiplier of the normal thickness)
- `scale:{number greater than 0.0}`: a scale factor applied to the bullet in relation to the general parameter. It is not recommended to use large values.
- `rotation:{number between -360 and 360}`: allows you to rotate the shape (anticlockwise)
- `{identifier}`: a previously defined identifier (see previous section). All the parameters of this identifier are applied to the definition, in order.

Advanced parameters

- `pattern:{P1, P2, P3, ...}`: used to create more complex shapes than simple polygons. The pattern is repeated {sections} times, creating a point for each of its values remotely {radius * value} from the centre. Examples of patterns:
 - `pattern:1.0`: is the normal pattern creating a regular polygon.
 - `pattern:1.0,0.5`: creates a star shape with {sections} branches such as the green in the example figure.
 - `pattern:1.0,0.0`: creates a "wired" star composed only of its outline.
 - ...
- `clear:{parameter}`: cancels a value retrieved from a previously referenced identifier. For example `clear:rotation` returns the rotation to 0°.



Definitions

You can group one or more parameters together under one name to reuse it in different places. Here are some examples :

- `define::BLACK::fill-colour:0 0 0` : the bullets will have a black fill
- `define::SQUARE::sections:4 + rotation:45:` : the bullets will be represented by a square shape
- `define::fine-line::line-size:0.2` : the bullets will have a contour of 20 % of the normal thickness
- `define::star::pattern:1.0,0.0` : defines the star base for all peak numbers
- `define::five-star::sections:5 + star` : uses the previous definition to create a five-pointed star
- `/! \` NOTE: definitions are not case-sensitive (so SQUARE, square or SqUaRE are identical).

The selectors

The last section of the file contains selectors that link the stations with their representations. For each station, MySurvey will apply one or more representations that match the corresponding selectors:

- `default`: the appearance applied to all stations before any other selector.
- `types of station`:
 - `scan`: standard stations that do not have a UHD (or photo) version
 - `scan + UHD`: normal stations that have a scan and photo representation
 - `UHD`: stations where only the photo version is available
 - `userdata`: stations that have been added by users via the "import a station" function
- `{station name}`: allows you to define a representation for a particular station
- `selected`: a currently selected station. Colours can be set to `fill-colour: view` and `line-colour: view` to take the colour (red or green) of the view in question
- `visible`: the stations visible from at least one point of view. The special colour "view" also applies
- `non-visible`: the stations visible from any point of view.

For example:

- `default::circle + black-line + line-size:0.5`: means that unless otherwise indicated the stations must be circles with a fine black line.
- `selected::five-star + fill-colour:view + clear:rotation`: means that the stations selected (as a point of view in the red or green view) must be represented in the form of five-pointed stars with the colour from their current view, without any rotation.