

This Week's Wisdom:

New Hexagon Tool for MapInfo Pro

In Spatial Data Science, we use grids that are regular polygons repeating over a surface, edge to edge to cover any space without overlaps and gaps — a phenomenon called tessellation. Each cell can be assigned a unique id for spatial indexing (aggregating the points inside that cell). You may have used squares to cover a study area because they are easy to generate and are used in raster grids. However, we have known for many years that the hexagon is the best shape to use - and now we have a free tool available from the MapInfo Marketplace.

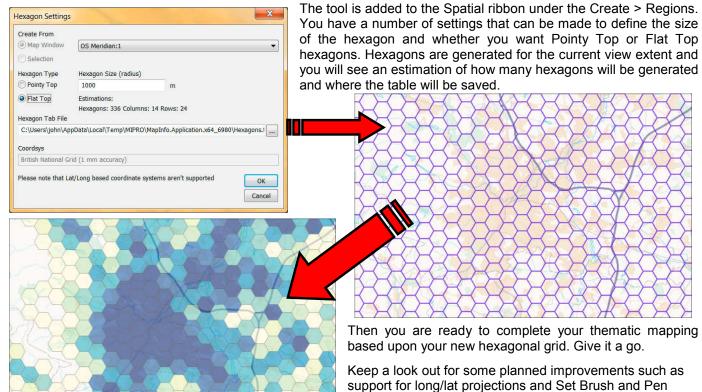
Why Hexagons? Tessellation is well studied mathematically and there are just three possible regular tesselations: equilateral triangles, squares, and regular hexagons. Regular hexagons are the closest shape to a circle that can be used for the regular tessellation of a plane and they have additional symmetries compared to squares. A hexagonal grid cell has six identical neighbouring cells, each sharing one of the six equal length sides. Furthermore, the distance between centroids is the same for all neighbours.

And it can't be denied that hexagonal grids look far more impressive than square grids!



Our good friend at Pitney Bowes, Peter Horsbøll Møller, has produced the Hexagon Tool for us all to enjoy. If you are using MapInfo Pro v17.0.4 you will find it in the Marketplace, from where you can install directly to your PC.





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style via a dialog, in the next release.

