## General polygonal mesh generator

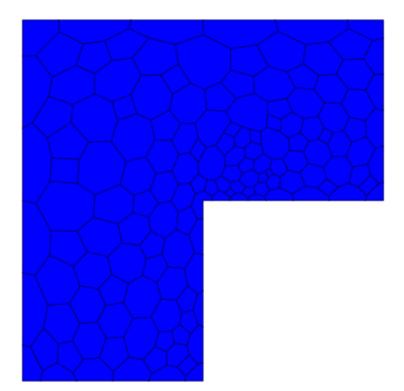
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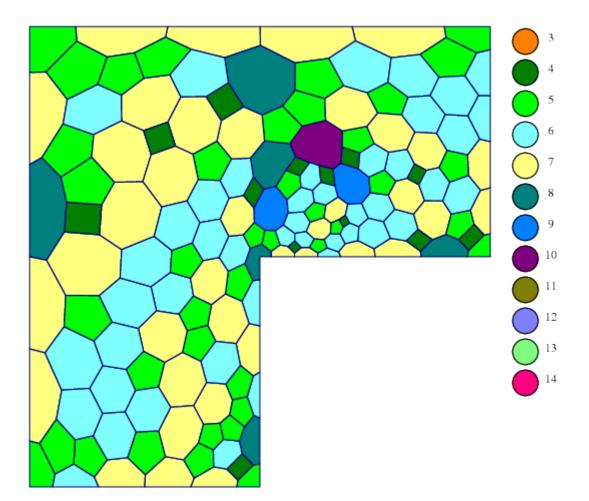
For polygonal version of Finite Element Method (with n-gons for n>4) I need appropriate mesh generator. Except for triangle, which produces Voronoi diagrams, no other generator known to me was able to generate general polygonal meshes. So I ended up building one myself. It is heavily based on MOAB library and triangle generator. At the moment it is built on "duct tape", as a proof of concept, but works.



To generate the above mesh I took the following steps:

- 1. prepare the text image in gimp and save it in pnm format
- 2. convert the image to fig format using potrace
- 3. edit the fig file in xfig and manually modify boundary polygons removing dupplicated or to close vertices, add markers for holes
- 4. convert the augmented fig file to triangle input file using Python script based on fig.py package
- 5. generate mesh with triangle
- 6. convert triangular mesh to dual mesh with program based on MOAB library





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