

RIDIR Report

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Working on CGAL implementation

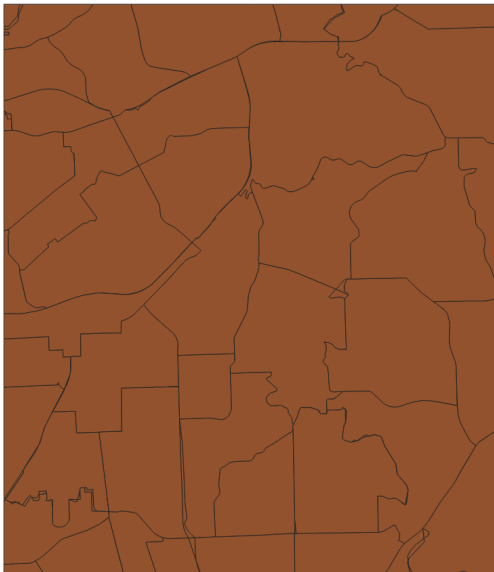
- ▶ Based on Arrangements in 2D in the CGAL library (Section 8. Extending the DCEL))¹.
- ▶ Theory and resources are discussed at “*CGAL Arrangements and Their Applications: A Step-by-Step Guide*” (Fogel et al, 2012)².
- ▶ Code available at repository³.

¹ https://doc.cgal.org/latest/Arrangement_on_surface_2/index.html#title51

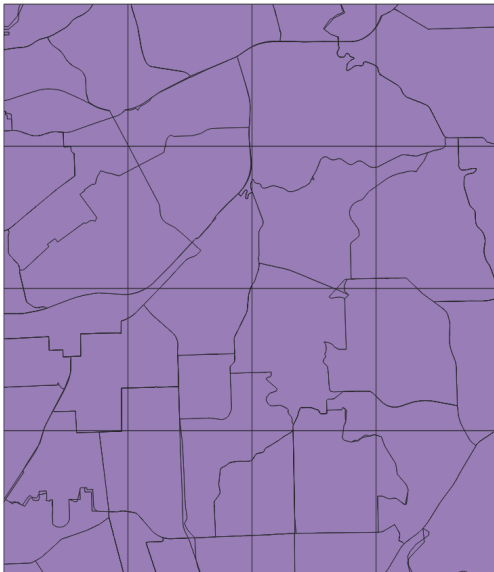
² <https://www.springer.com/gp/book/9783642172823>

³ https://github.com/aocalderon/RIDIR/tree/master/Code/CGAL/dcel_code

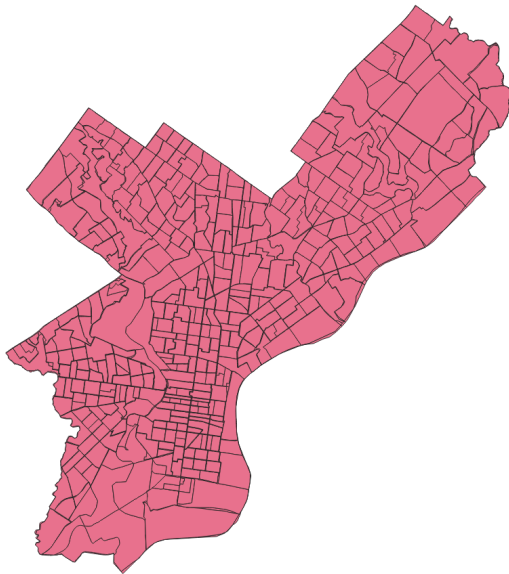
CA subset [CGAL]...



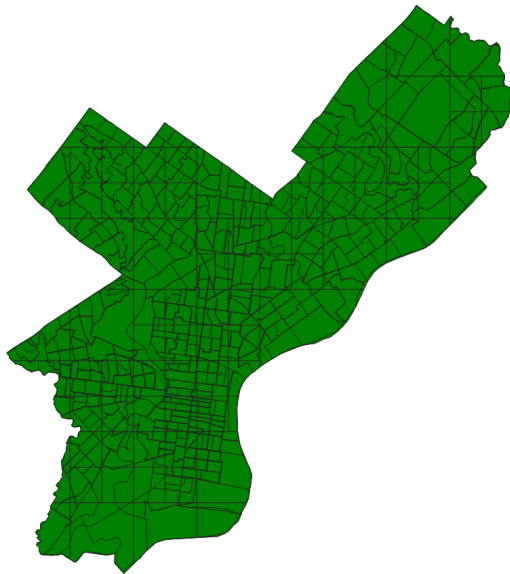
CA subset [RIDIR]...



Phili dataset [CGAL]...



Phili dataset [RIDIR]...



Phili dataset [CGAL] details...



Phili dataset [RIDIR] details...



What's next?

- ▶ Currently working on CGAL implementation dealing with polygons with holes...
- ▶ Benchmarking with sequential tool...