

Voronoi Diagram

DCEL

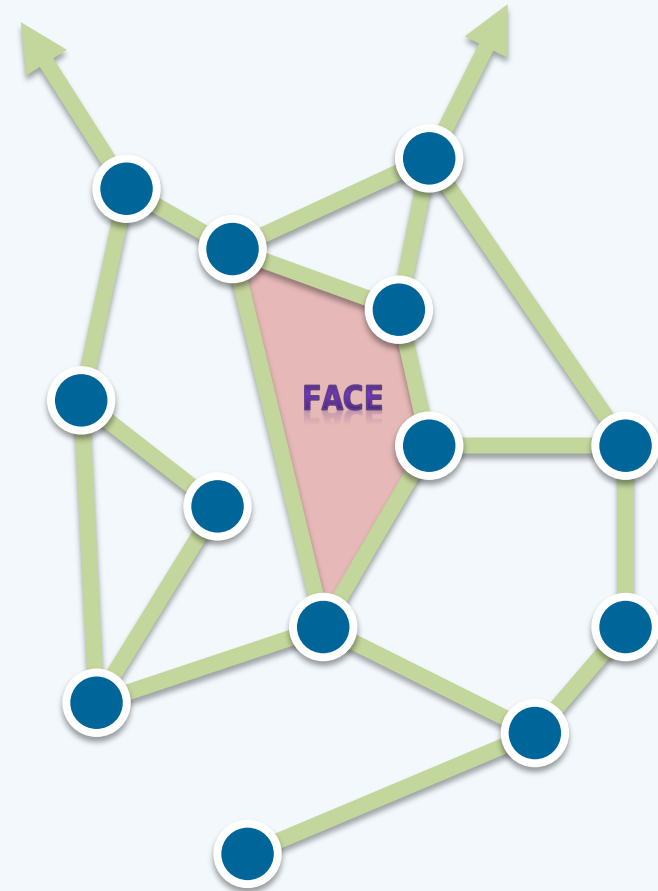
- Traversal

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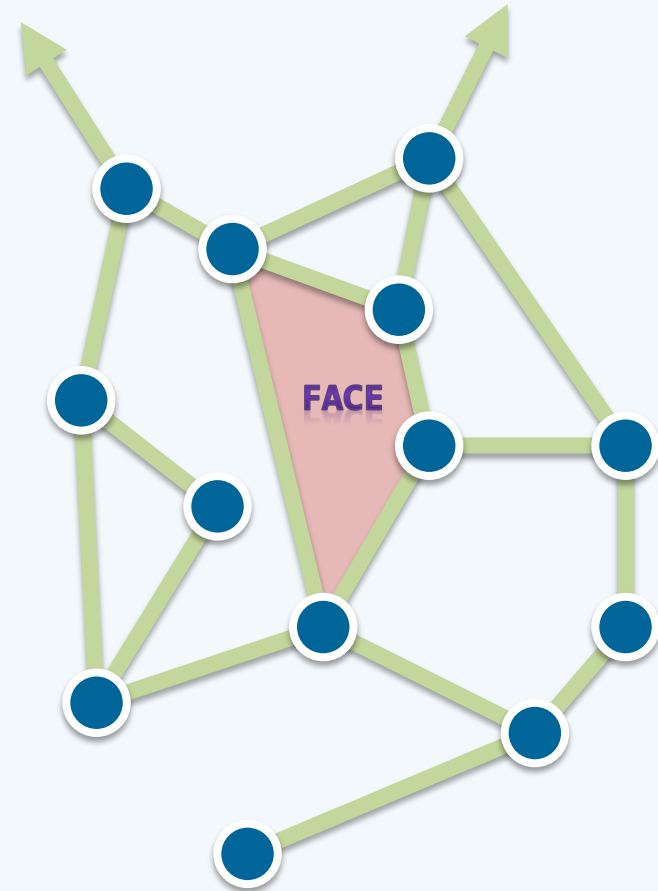
Traversal Around Vertex/Face

- ❖ Given a vertex v , how to
enumerate (CCW) all the edges
incident to v ?
- ❖ Given a face f , how to
enumerate (CCW) all edges
along its boundary?
- ❖ Application example: stabbing query



Algorithm

- ❖ With DCEL representation,
both problems can be solved
in `linear` time
- ❖ For a comprehensive introduction to DCEL,
see the section 2.2 of [CGAA](#)
- ❖ Code implementations of DCEL
are available, e.g., in [CGAL](#)



Example

