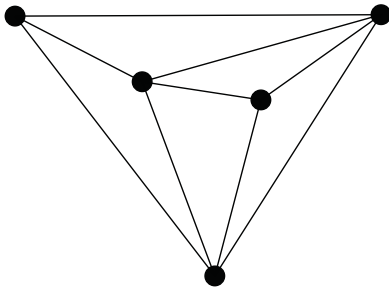


499 Project David Rappaport

Triangulations of Points

This project involves a study of methods to compute a triangulation of a set of points

Given a set of points in the plane (no three on the same line) adding line segments between point pairs so that there are no two pairwise intersection of the segments, yields a triangulation.



In general the triangulation of any given set of points may not be unique. In fact there may be exponentially many different triangulations for a set of points .

In this project you will be implementing several triangulation algorithms and explore and compare some of the properties of the triangulations.

Skills that I am looking for are:

- Creativity
- Ability to understand a high level description of an algorithm and obtain a working implementation with a graphic visualization.
- Ability to test the program and collect empirical data relevant to the project