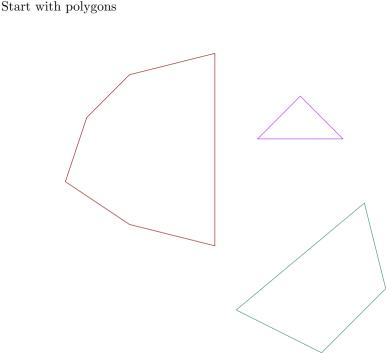
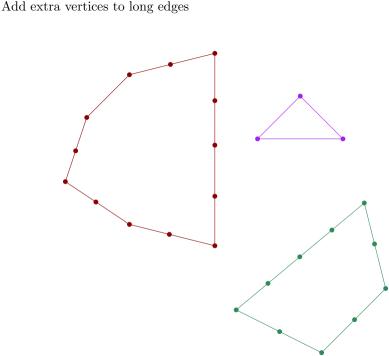
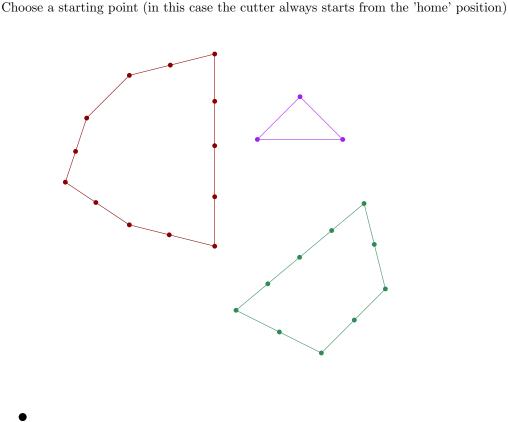
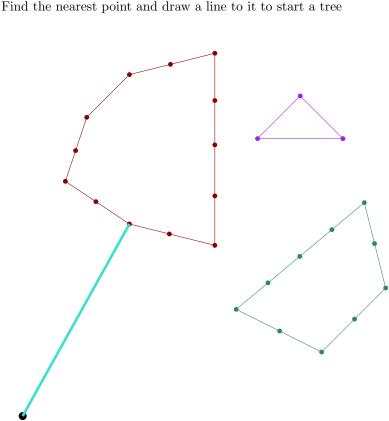
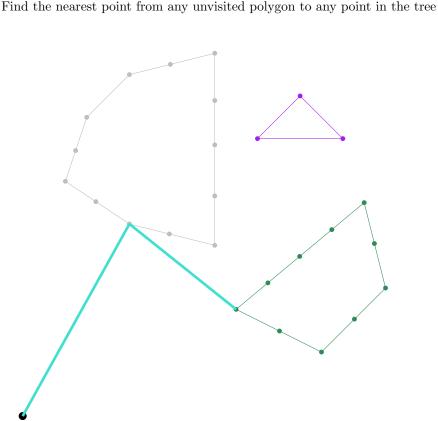
## Basic Algorithm

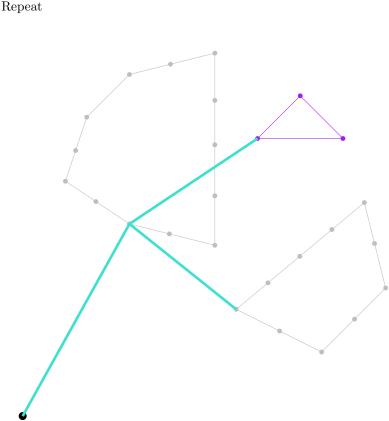


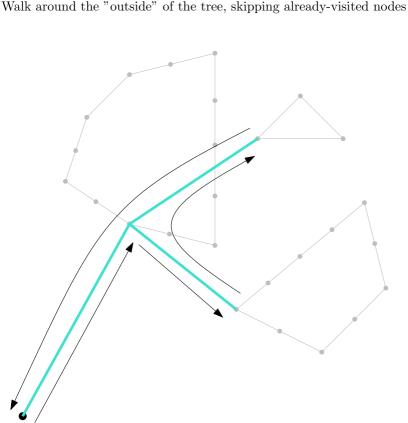


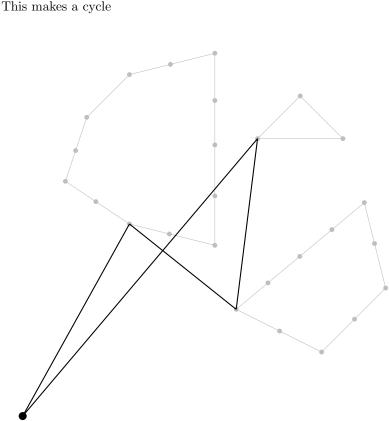




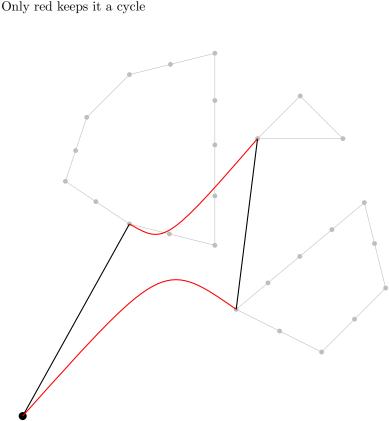


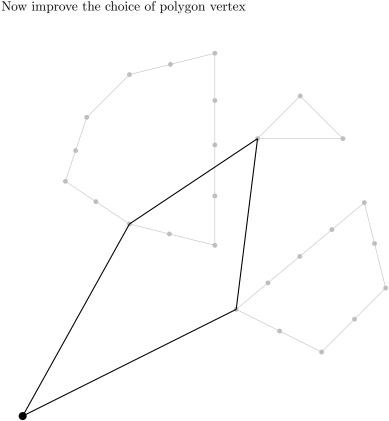






Uncross intersections. There are two choices, red or blue:





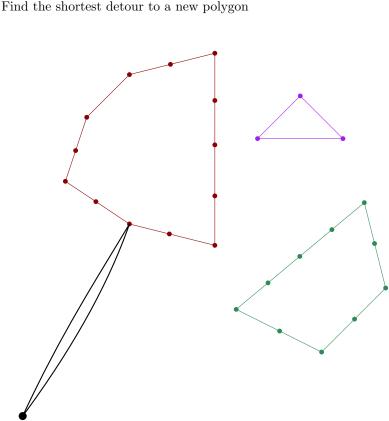
Try every vertex in a polygon to see which makes the path shortest

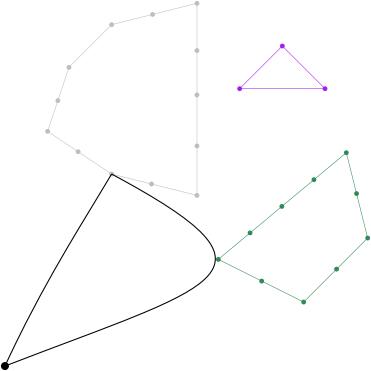
Repeat for every polygon and we're done!

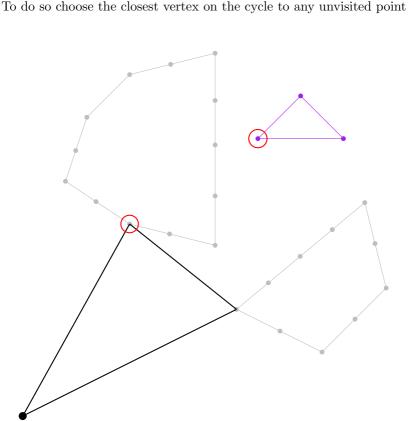
## Alternative to walking around a tree

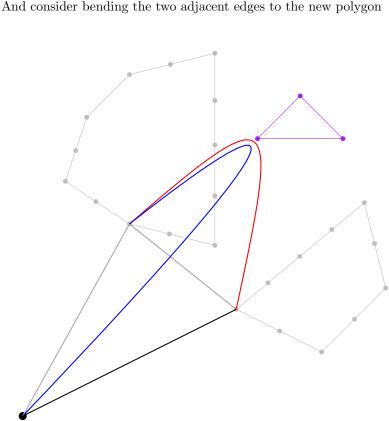
Instead of a tree, gradually expand a cycle











Red is the shortest detour so choose that

## Details / Questions

Uncrossing an intersection (red) can make an extra intersection appear (green). Do we have to do multiple loops checking for intersections? Is convergence guaranteed?