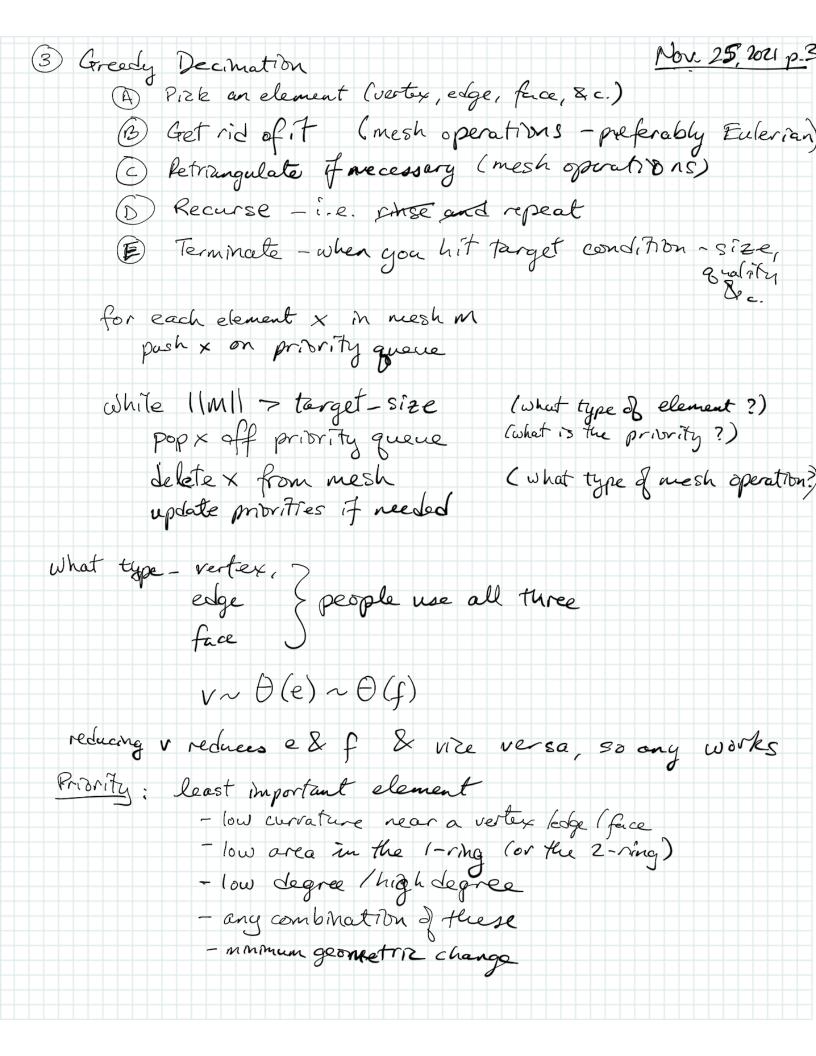
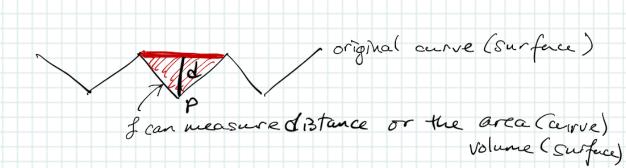


Simplification suppose you have 1,000,000 tringles in a model you can only afford 1,000 goal - reduce the poly count - heep the shape 1) vertex clustering - choose vertices that are close to each other & combre them -e.g. quantised - i.e. drop all but (? 8) significant bits of x,y,2 then some vertices will have the same position & can be combined merge - mesh operation > Ill Mu close but not connected pinch point -> non-manifold mostly works, but has topological problems 2 resampling & repair techniques
- in practize, these techniques increase the poly count



-mammin geometriz change



- volunie

- distance - moximum distance exergatione on a mesh - set of points A, B

tor each point a eA, beB, find distance 1/a-b/l use this to find closest print b to agreen a

i.e. min la-bly

then JB(AB)=max min 11a-611 is the Housdorff
acr beB distance between A&B

-> mathematicions use this one a lot \rightarrow computing it is $O(v^2)$

ow - doing tuis for all possible edits is O(v3)

- conservative approximations

- size of 1-ring

- cotangent weights summed around a vertex - length of the edges removed

estandard cheap solution

-edge allapse is easy to test Eulerian condition

- edge length is a reasonable pritrity measure