## Project 2: Meshedit

Logan Wan (lwan)

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## **Local Operations**

FaceBevel: Fully ImplementedEraseEdge: Fully Implemented

• EdgeCollapse: Almost fully implemented. MeshEdit seems to get stuck in computing the normal of the face. Confirmed all halfedges have neighbors, and each element is associated with a halfedge, and there are no lingering elements undeleted.

EdgeFlip: Fully Implemented EdgeSplit: Fully Implemented

## **Global Operations**

• Triangulation: Fully implemented

 $\bullet\,$  Linear Subdivision: Fully implemented

• CatmullClarkSubdivision: Fully Implemented

• LoopSubdivision: Almost (90%?) implemented. Similar issue to previous with EdgeCollapse. Able to confirm all vertices have reasonable coordinates, and are associated with a halfedge. Still hangs on computing face normal.

## Model

I made an elephant. Note that it's viewed here in a web viewer, since my multiple Catmull-Clark Subdivisions really killed the meshedit viewer.

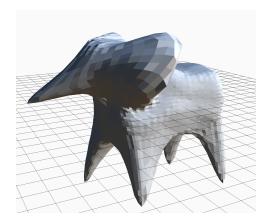


Figure 1: Smooth elephant