Motivation

July 30, 2021

We assert that the computational power of GIS can be made accessible to a wider range of people. In particular, people of younger age or with less *formal* education than seem to populate the current roster of "GIS professionals."

GIS has inherent *complexity*. However, aspects of GIS are unnecessarily *complicated*.

In particular, some popular GIS systems exhibit unnecessary complexity in at least two ways:

1. the application of floating point number systems

2. the obfuscation of a fundamental building block of geometry: the line.

We also assert that precision matters. It is of little use to communicate a location without also communicating the precision with which that location is known.