Real Time GPS Navigation

Alexandra Nilles
Everett Hildenbrandt
Nathan Neibauer
Kento Okamoto
Matt Jones

Project Overview

- Create a real time GPS navigation system using Python.
- Upload data to Google Maps API



Process

- Serial input
- File Ops
- Data Analysis
- Error Analysis
- GUI

Serial Input

- Scans computer for ports in use (USB).
- Finds GPS unit connected to computer.
- Collects data from GPS.



File Ops

- Takes Data from GPS and converts data to readable data
- Converts received data into KML file format



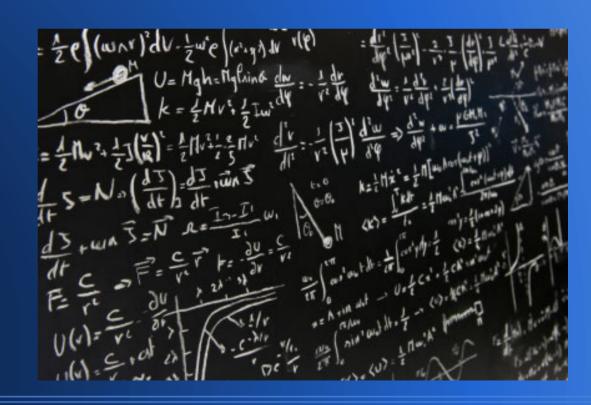
Data Analysis

Trims data down to make recorded path smoother.



Error Analysis

 Reads recorded data to measure how accurate the data is to a USGS location.



GUI

- Central Station of the program.
- Responsible for all of the subsystems the user wants to call.

