# ENPH 213 Final Project – OrbitSim.m

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OrbitSim is a function that simulates celestial orbits in the form of an animation or a graph. The user can either input a custom scenario or choose one of two pre-set situations. It take in user inputs through a gui to insure that the data is input correctly. OrbitSim takes 3.67 seconds to run before plotting, with a graph it take a total of 5.36 seconds, with an animation it take 136.24 seconds. The total size of the three functions used is 7.63 KB with OrbitSim being 6.03 KB. The simulations are not totally accurate due to a step size that cannot be small enough while still being able to run the program.