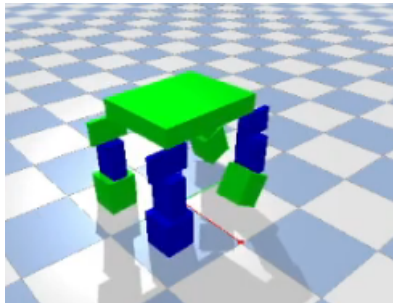# README

In this assignment, I created a program (make_horse.py) that randomly generated a "horse". I built off my previous assignment, expanding my snake to 3d space. My horse is made of a main body, attached to 4 legs. The size of the main body is random, as well as the size of the leg links. Each leg is made of 3 links. Each link is randomly selected to be Green or Blue, with Green links having sensors placed in them. Motors are placed in each joint, and synapses connect the motor and sensor neurons that allow the horse to move.

In order to run my program, use the command **python make_horse.py** (or **python3 make_horse.py**, depending on your system.

Examples:

Here is an example of a horse. There is a main body attached to four legs. Each link of the legs has randomly generated height, width, and length. Not all the links have sensors (only the green links), and you can see the movement of the front legs in this example.

Sources:
My code is based on the Ludobots subreddit assignments: https://www.reddit.com/r/ludobots/.
As well as Pyrosim: https://ccappelle.github.io/pyrosim/.