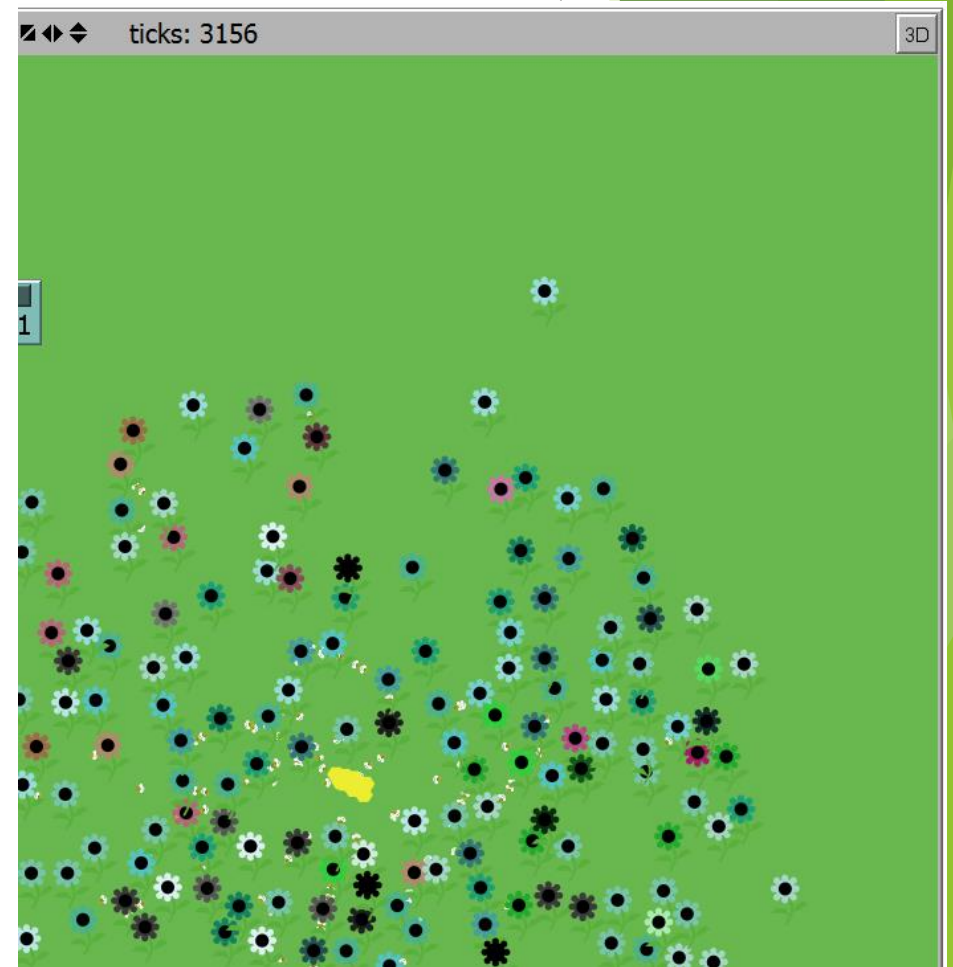


Honey Bee Colony Collapse Disorder (CCD)

- Bees are dying out, oh no!
- Bees fly towards flower to collect pollen, when 5 pollen return to hive
- Flowers are pollinated when bees carry pollen from one flower to another
- Once 5 pollen is returned to hive, allow the hive to grow one hexagon
- Bees feed off of pollen when hungry/low energy
- Bees and flowers both age and eventually die



Factors towards CCD

- ▶ Pesticides: Bees will lose energy when flying on top of sprayed patches
 - ▶ Pink patches, mouse click
- ▶ Varroa Mites: A proportion of bees will be infected by mites that harm them
 - ▶ Switch, set percentage affected
- ▶ High Fructose Corn Syrup: Bees fed HFCS will starve less but be more prone to damaging factors such as pesticides and mites
 - ▶ Switch, increases energy sporadically but doubles damage to bees from other factors
- ▶ Deforestation: Closing off the hive using roads and buildings will limit the reach of bees and flowers and possibly enclose the population
 - ▶ Gray patches, mouse click