**Organism Behaviour – First Draft**

1. Default organism state is “Roaming”.
   1. From roaming, an organism can transition to “Seeking Food” or “Seeking Mate”.
2. If an organism is seeking food, it is simply roaming, with the added fact that if it is within a certain range of food, it will go towards it and consume it.
3. If an organism is seeking a mate, it is simply roaming, with the added fact that if it is within a certain range of a mate WHO IS ALSO SEEKING A MATE, it will go towards it and mate.
   1. If whilst “Seeking Mate”, the organism becomes Hungry, it will transition to “Seeking Food”. Once it has eaten sufficiently, it will go back to default state of roaming.