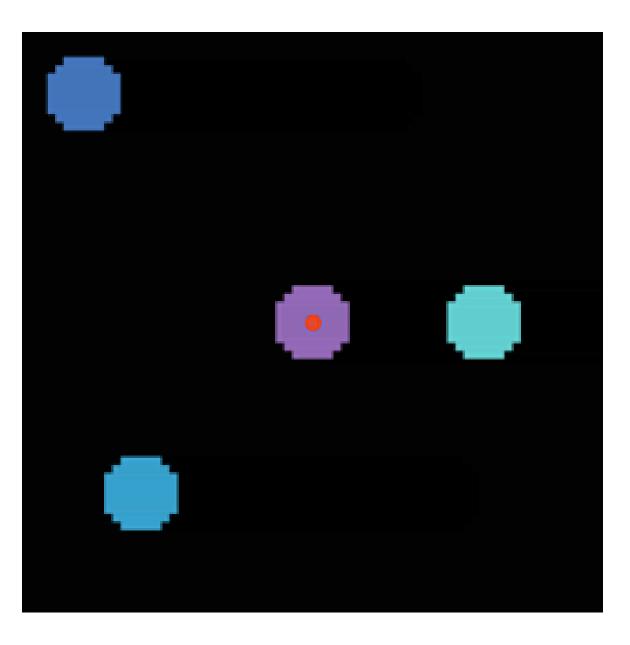
OOD Example

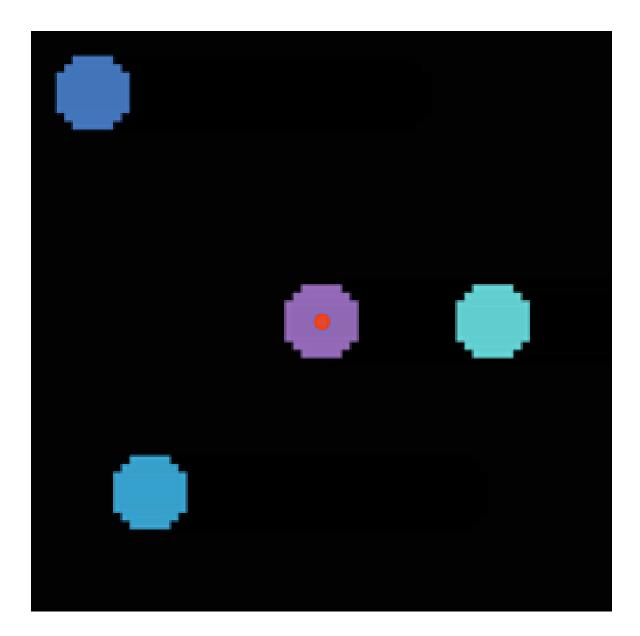
Karsten Droste

Ant Foraging



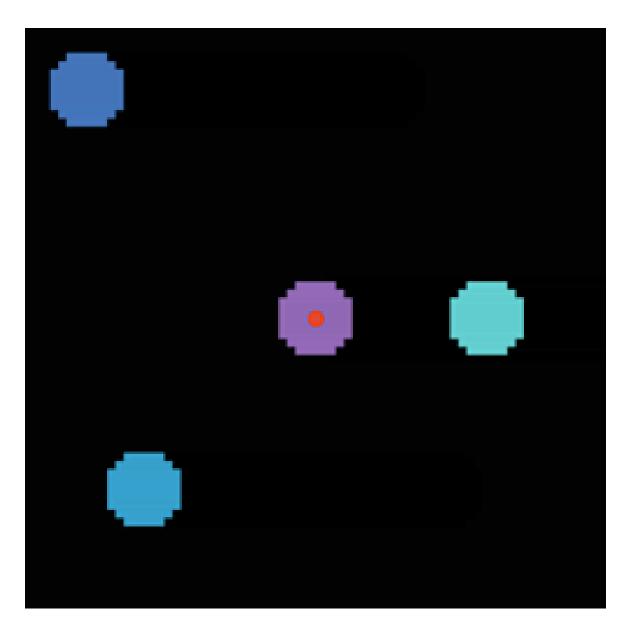
Objects

Ant Field Food Patch Nest Patch Food Pheromone Nest Pheromone



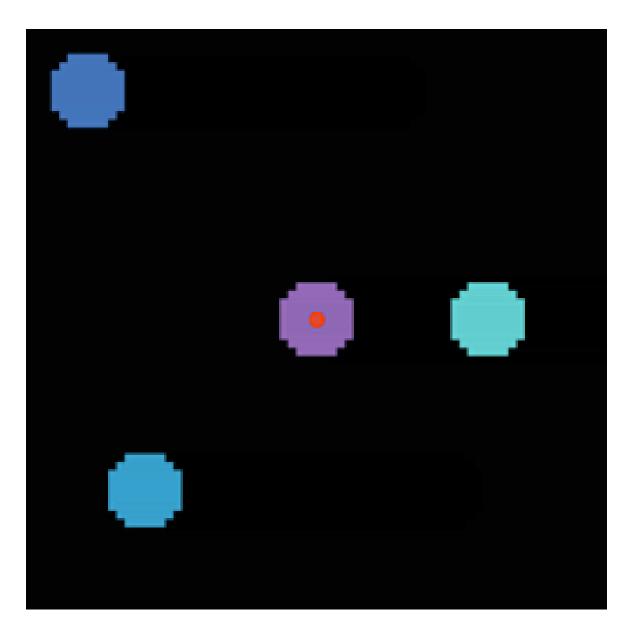
Ant Responsibilties

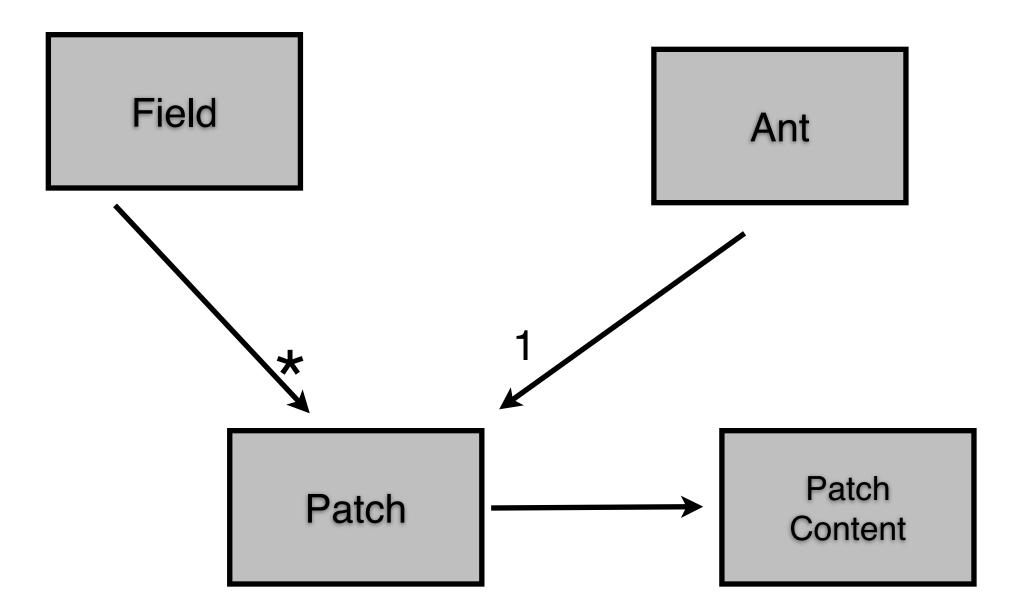
walkRandomly isDetecting takeFood dropFood followPheromone(p)

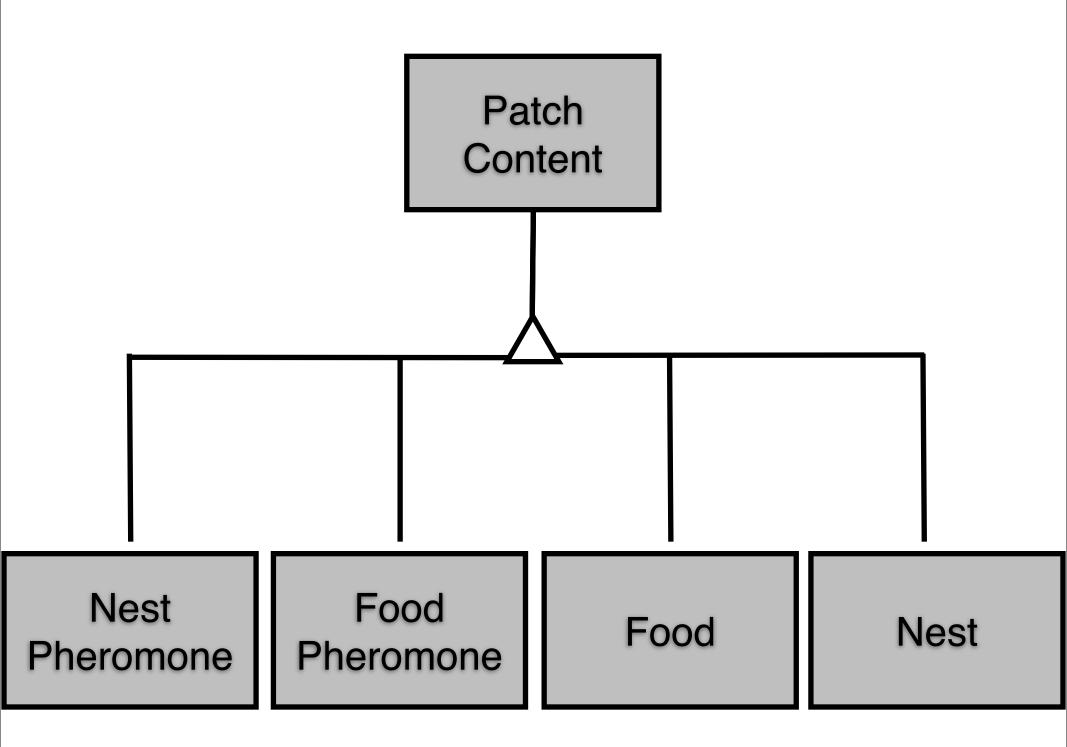


Field / Patch Responsibilties

spreadPheromone takePheromone takeFood dropFood setupNest setupFood



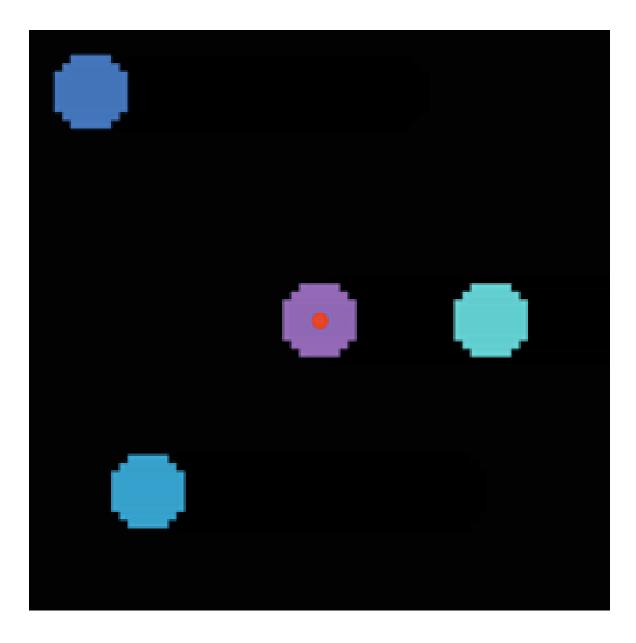




Ant Behaviour First Approach WITH ERRORS as Pseudocode

if isCarringFood() followPheromone(nestPheromone) else

if isDetecting(FoodPheromone)
 followPheromone(foodPheromone)
else if isDetecting(Food)
 takeFood()
else walkRandomly()





homework

I.Design Correct Ant Behaviour