Overview of NEAT

- Genetic algorithm, which means it's predicated on finding the fittest neural network for a given problem
- Genes can be for nodes or connections, with mutations possible in both
- Set apart from other algorithms by a few factors
 - Historical marking, keeping a running track of where innovations occurred, so disparate topologies can be merged easily
 - Speciation, if two genomes have significant enough differences, they are considered different species, and unlike many algorithms competition is primarily within species, rather than between them
 - Structures are only evolved when necessary, unlike other algorithms which initialize several random structures at the start for the sake of topologic diversity