Initial simulations: No-hidden unit model

Things to note:

* The first three plots show the cosine similarity between the state of each treelet (one each for the determiner, the noun, and the verb). The non-winning representations sometime have non-minimal similarity due to the fact that the representations for different words are not orthogonal.
* The phonology for the deterimer (“some” in this case”) is introduced from time t = 0. The phonology for the noun (“dogs”) is introduced at t = 250. The phonology for the verb (“are”) is introduced at t = 500.
* The last two plots show the link strength between the determiner and the noun and between the noun and the verb. This is just a normalized dot product between the feature representations on each end of the link. There is no competition yet.
* The noun and verb treelets start out slightly away from the origin: the exact initial position is drawn from a uniform distribution.









