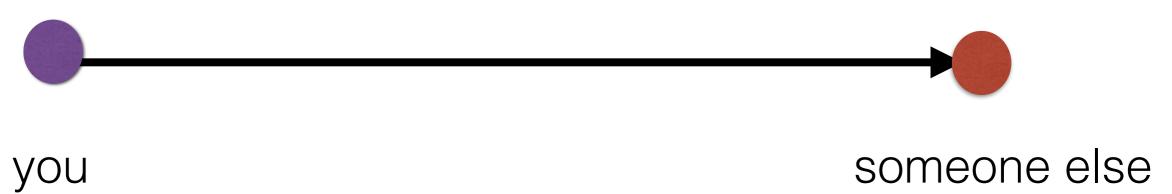
# Lecture 17

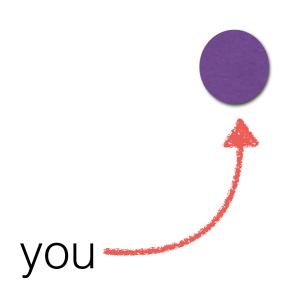
**Evaluating Network Models** 

Geog 490/590 Spatial Modeling Spring 2015 are you connected?



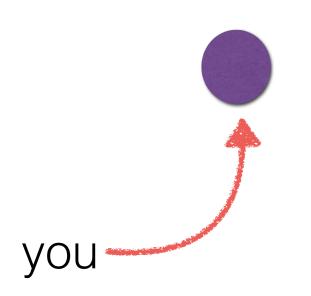
is this a big or small number?

#### someone else



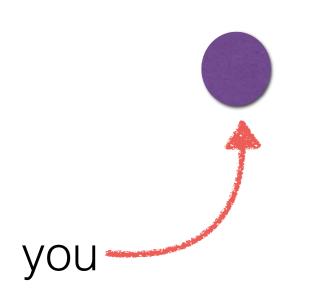
What is the likelihood that these two species originated from the same lineage at some moment in time?

#### someone else

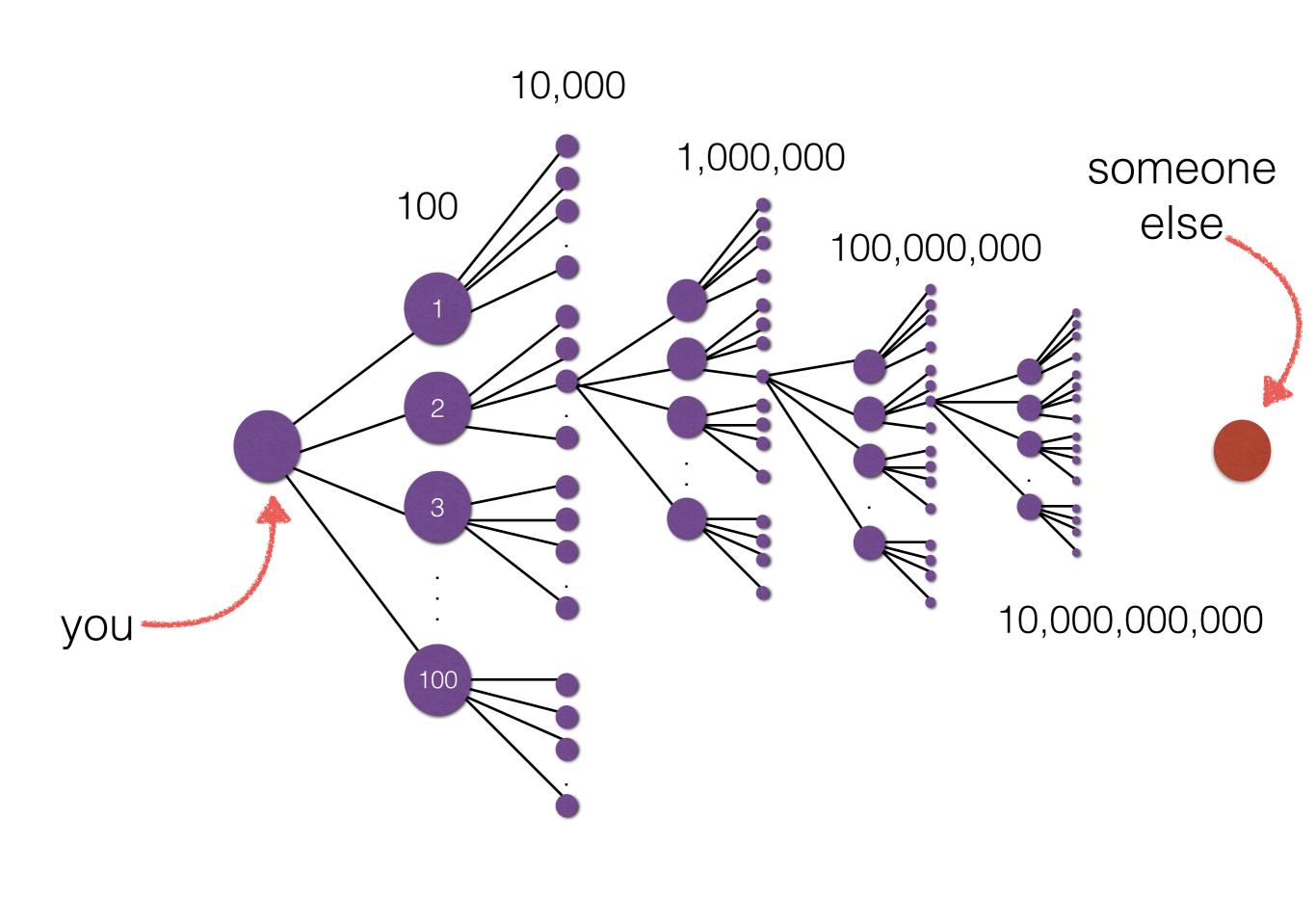


What is the likelihood that a disease will be transmitted between these two individuals?

someone else



What is the likelihood that a virus will spread from one of these computers to the next?



broadcast search v.s. directed search

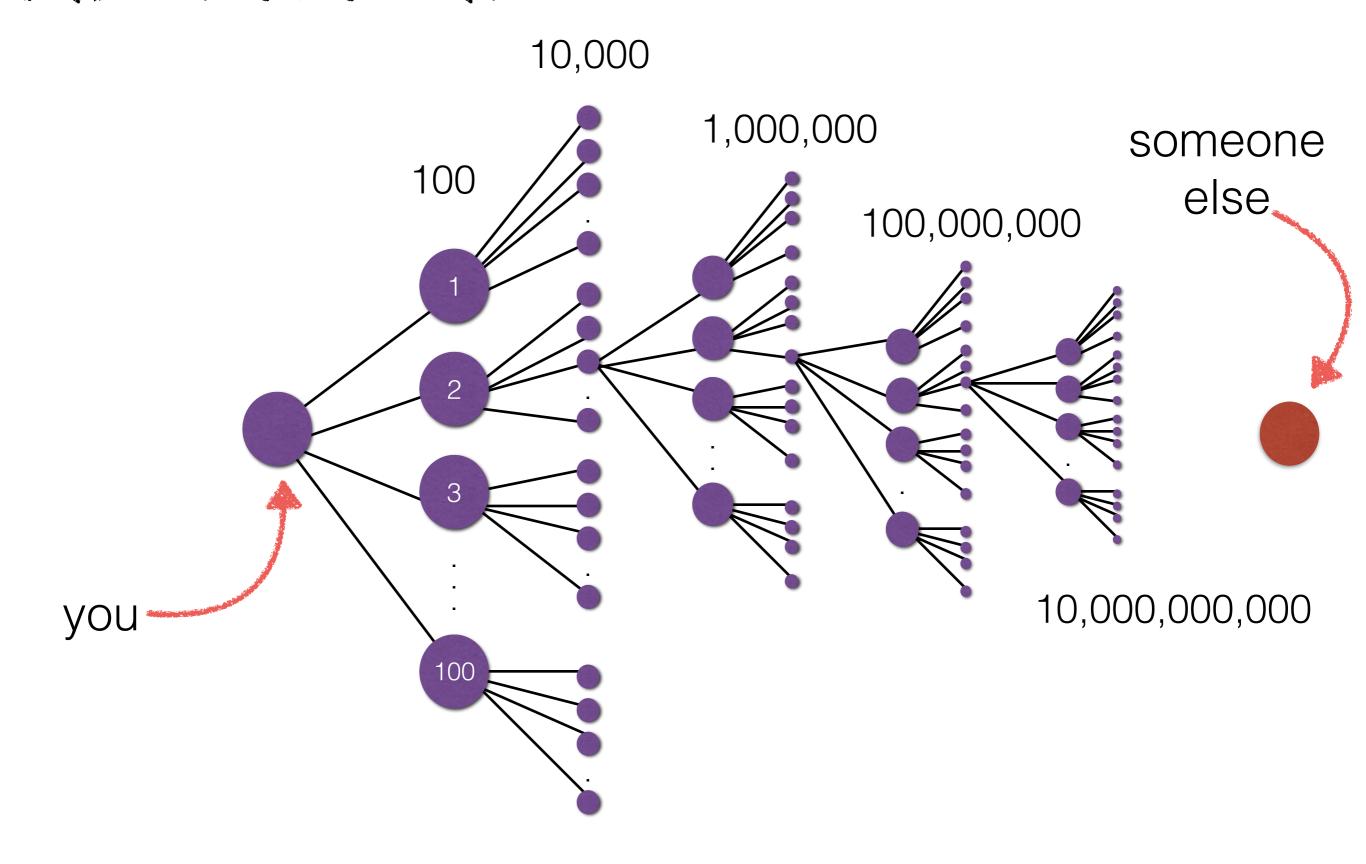
## not realistic

broadcast search v.s. directed search

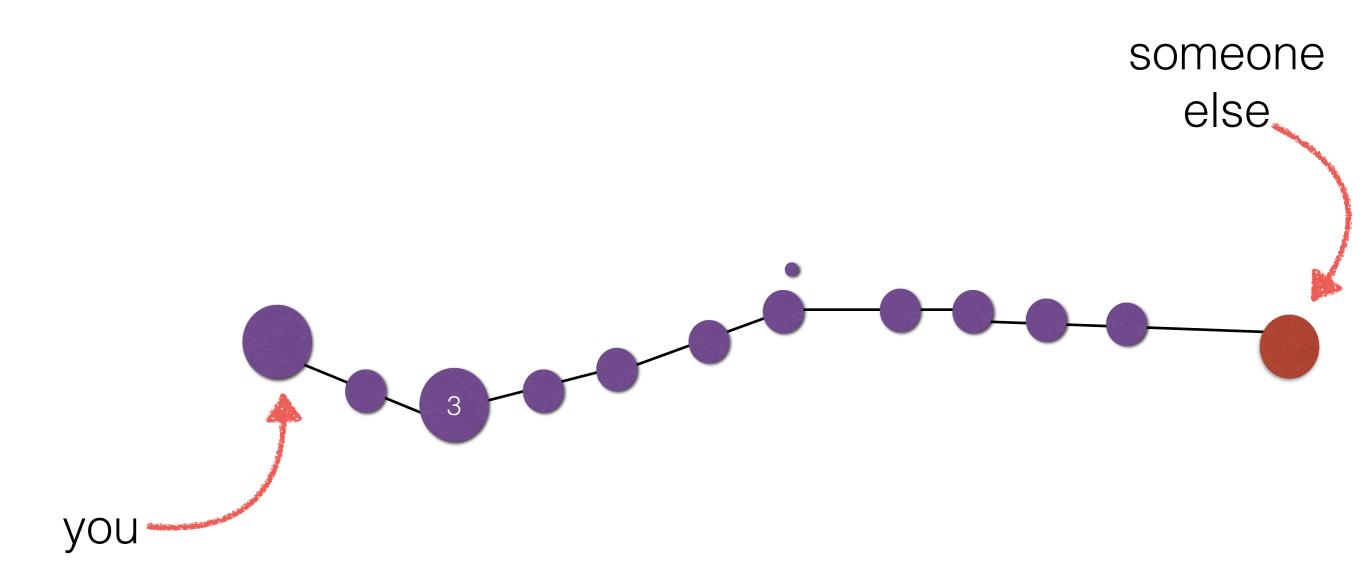
seemingly impossible



#### BROADCAST SEARCH

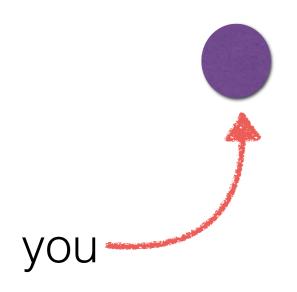


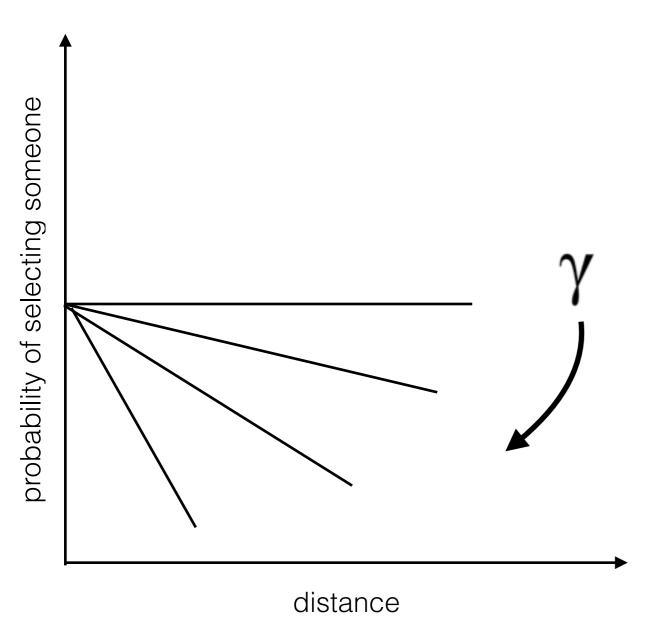
#### DIRECTED SEARCH

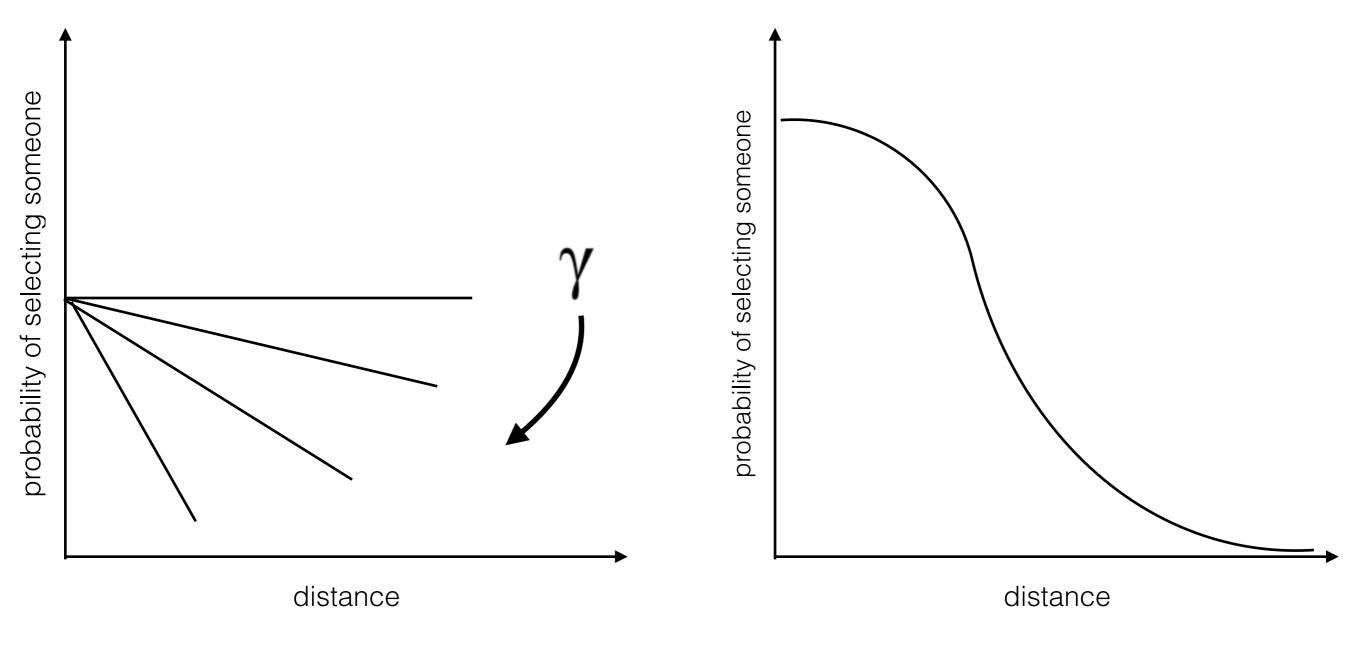


# SMALL WORLD SEARCH PROBLEM

someone else





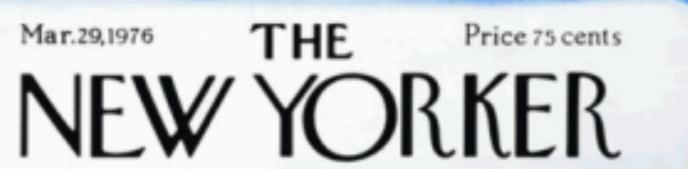


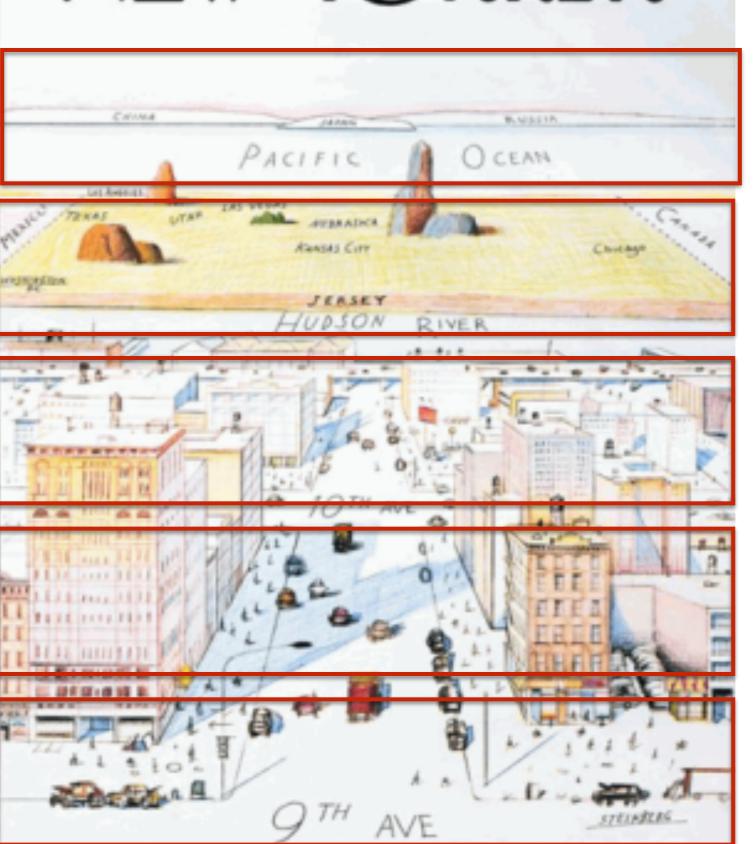




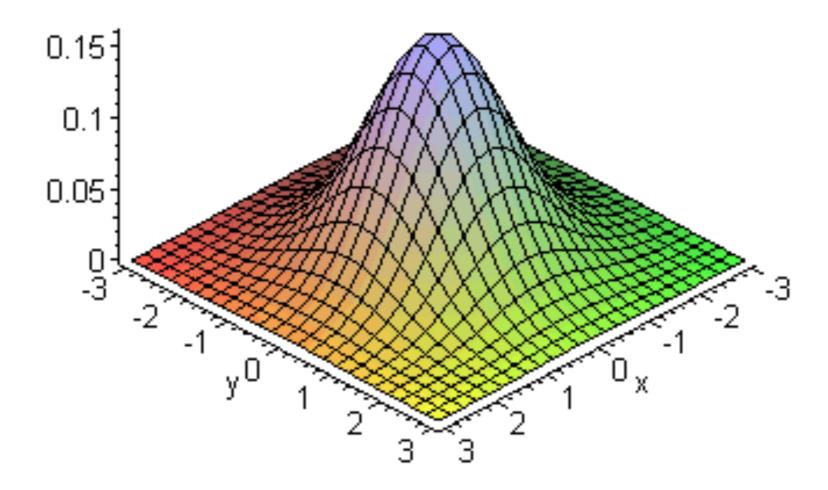




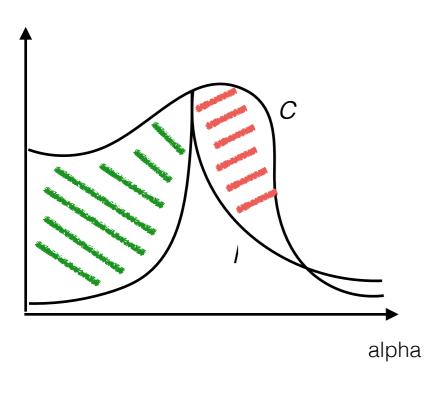




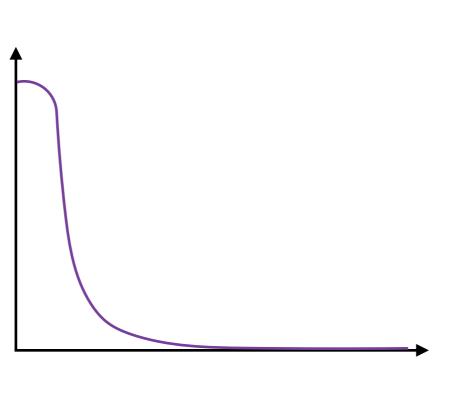
### Kleinberg Condition







preferential attachment



geography

