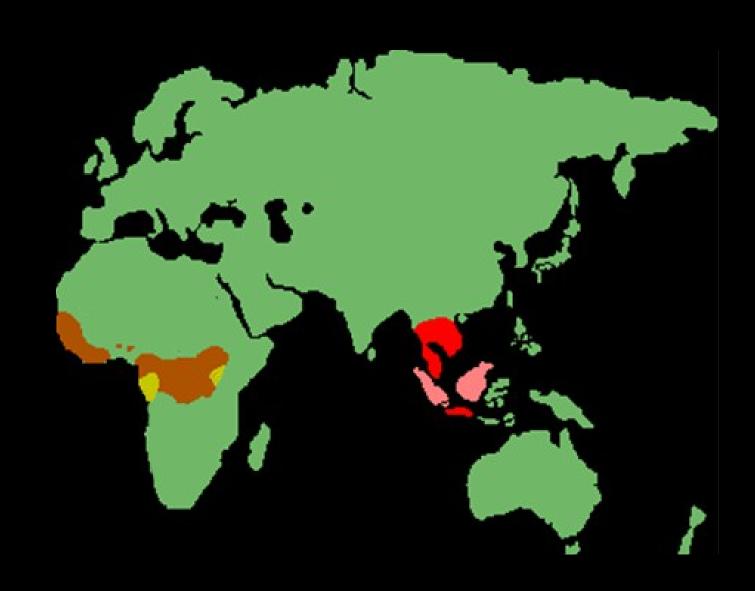
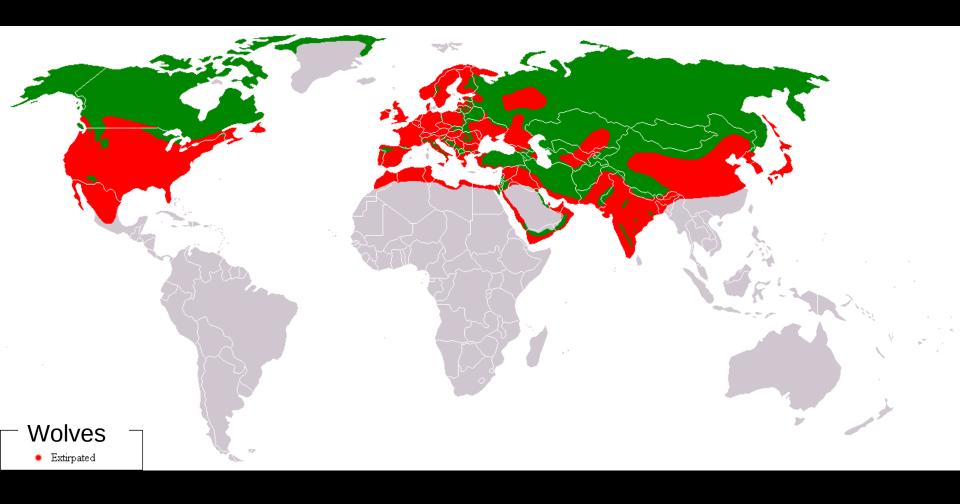
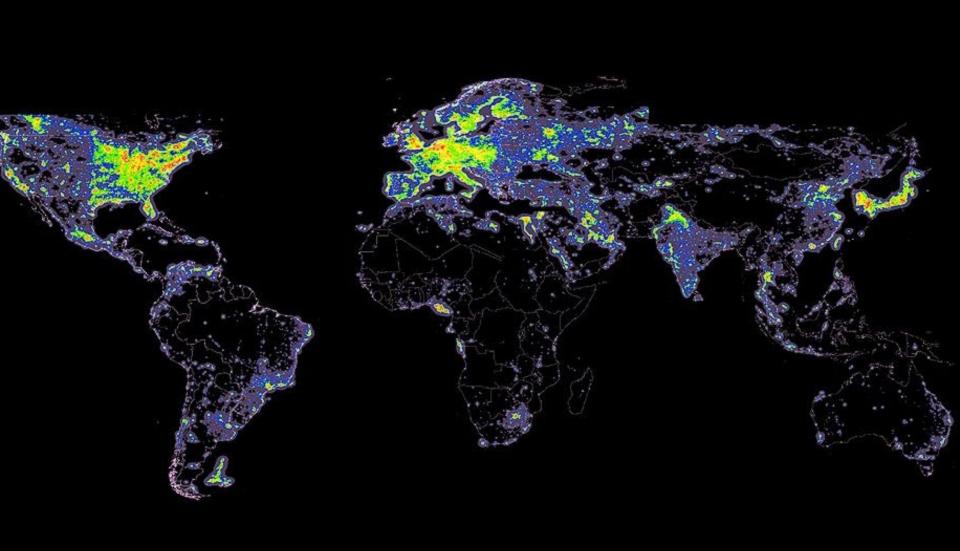
# Are humans outliers in the natural world?









### How were we able to do this?

## Usual explanation:





### Not a ridiculous question



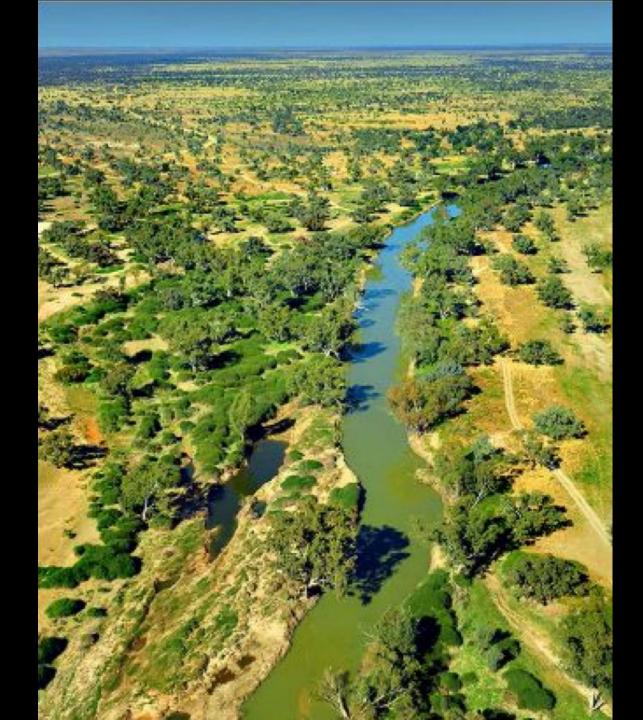


## So, will you make it?

## I don't like your chances









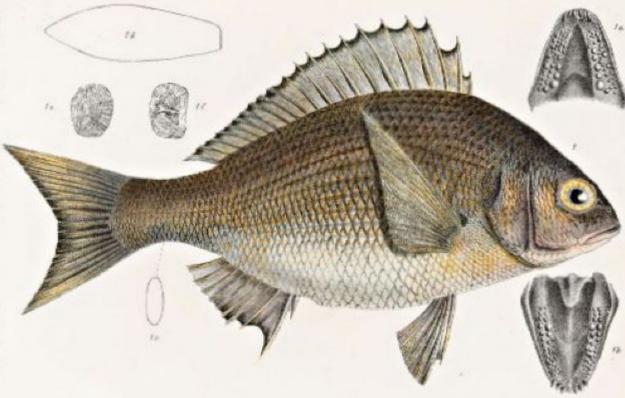
















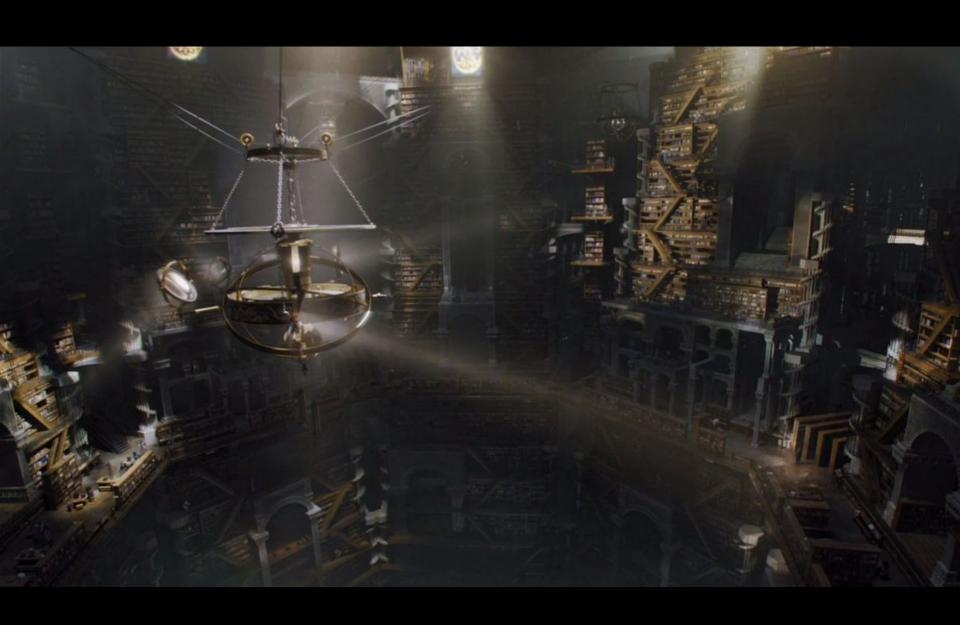






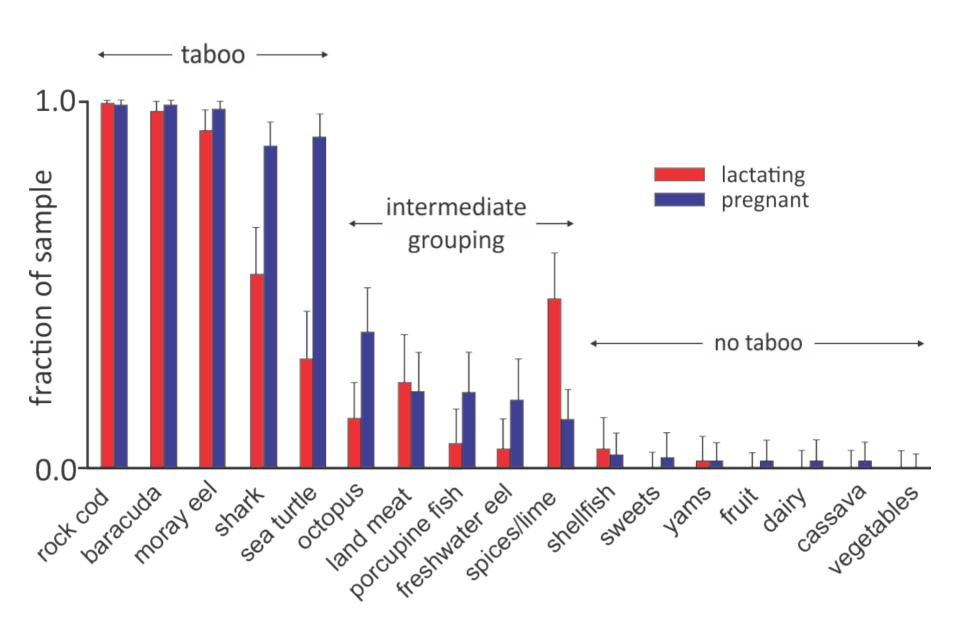


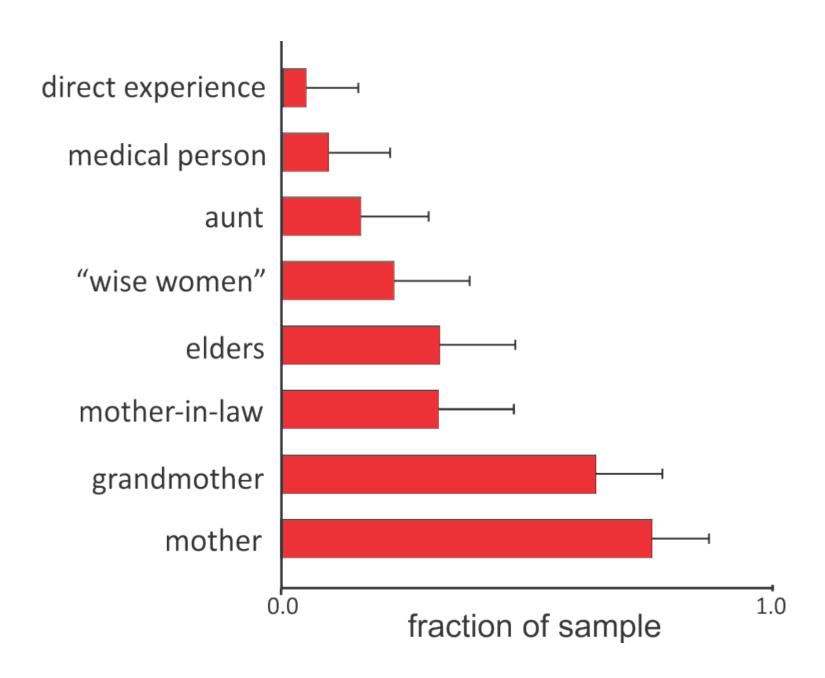
# Why is cultural information any good?





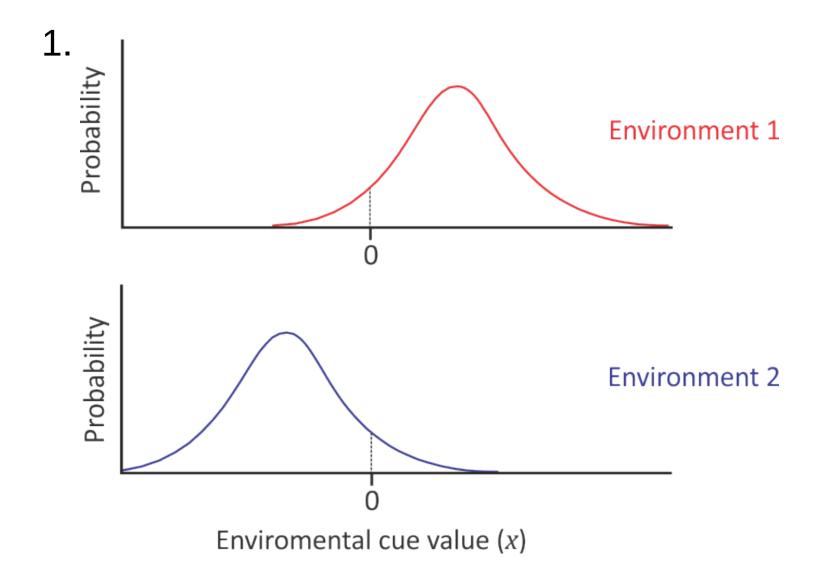






## Why believe the wise women?

#### The evolution of imitation



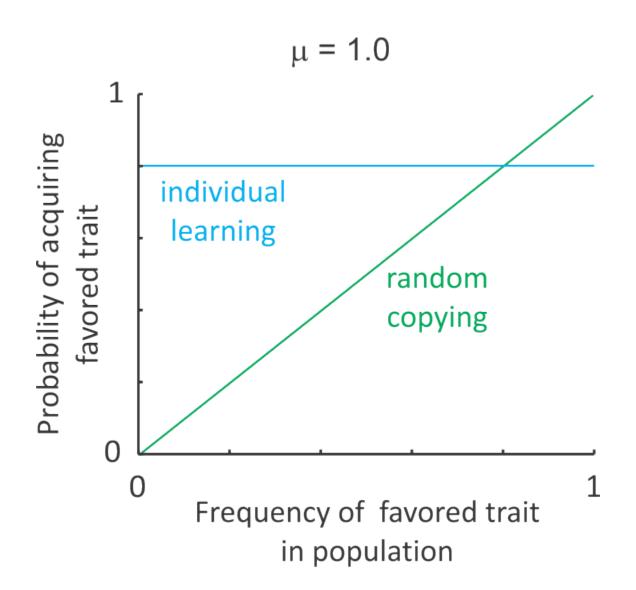
1.

2.

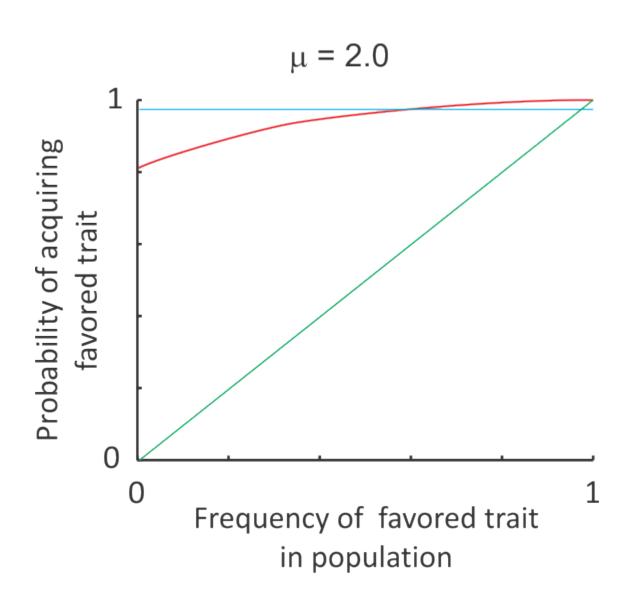
To maximize expected fitness, choose behavior 1 if

$$j - \frac{n}{2} > -gx$$

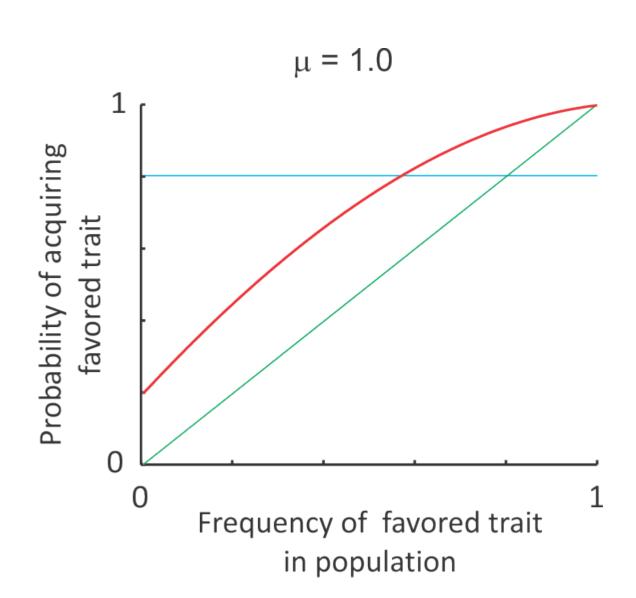
#### Plot equilibrium results in this space



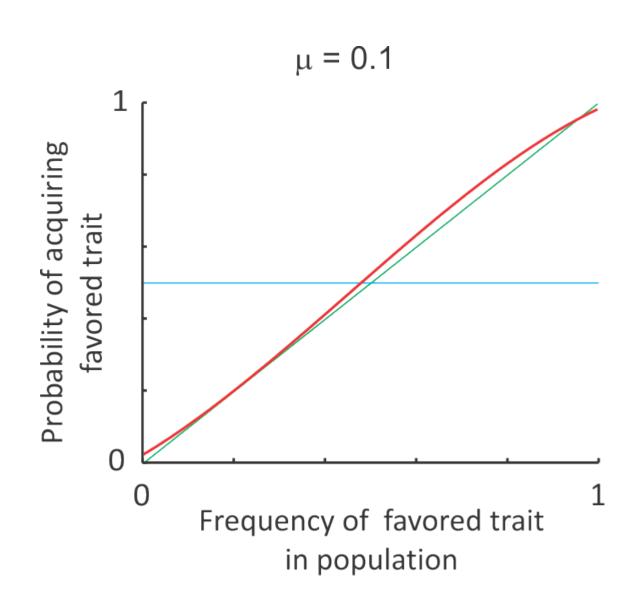
#### Accurate cues! little social learning



### Medium quality cue! more copying

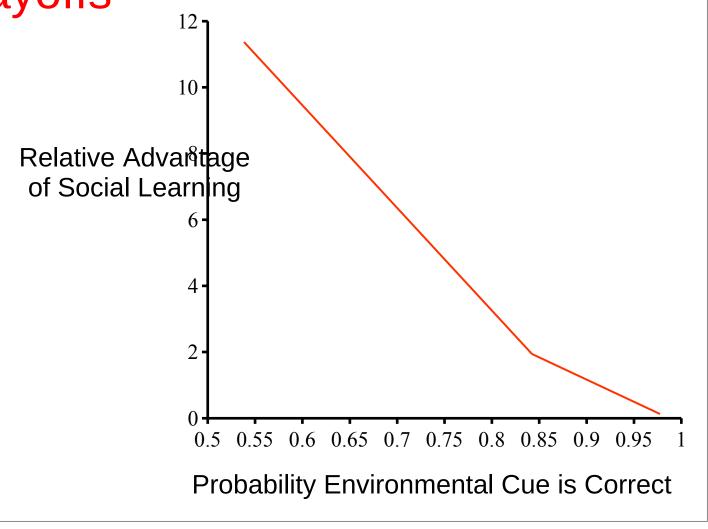


#### Low quality cue! emphasis on copying



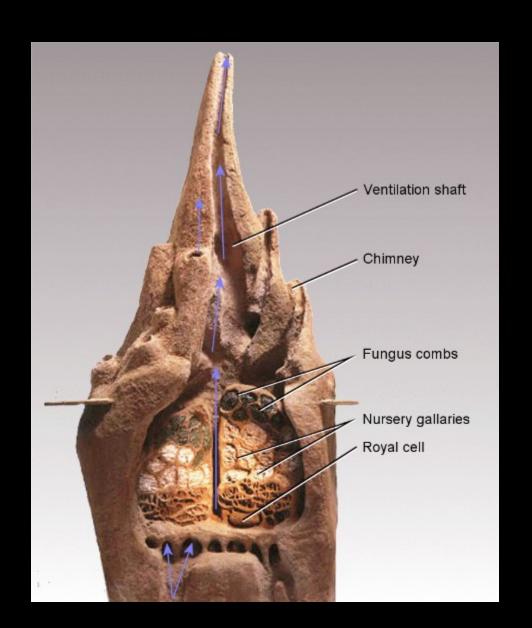
Social learning leads to higher

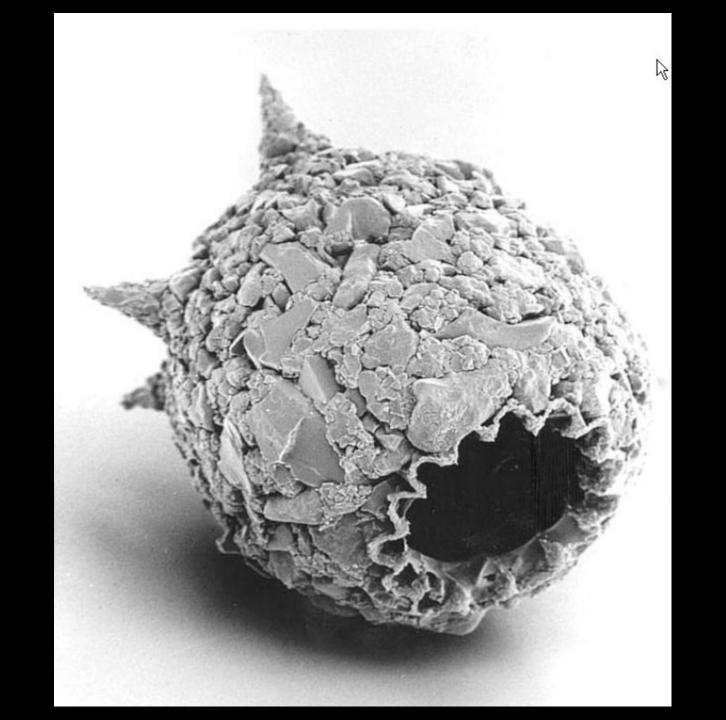
payoffs

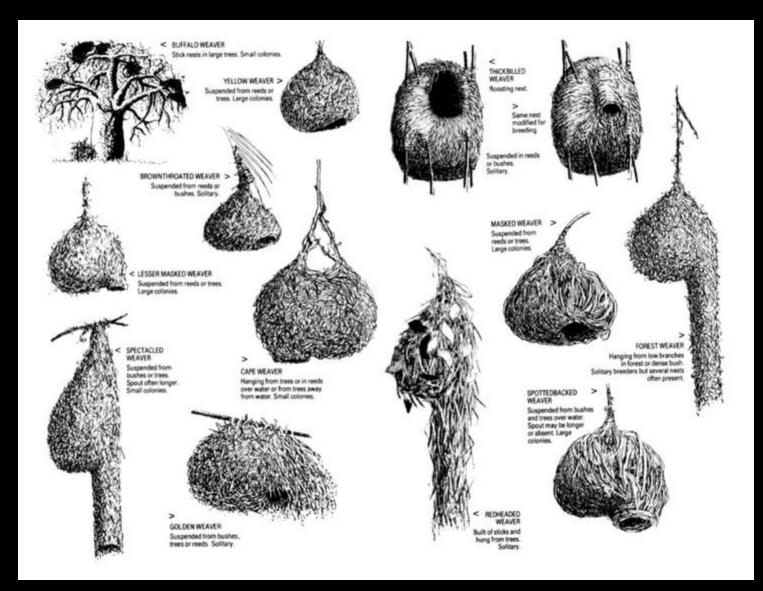


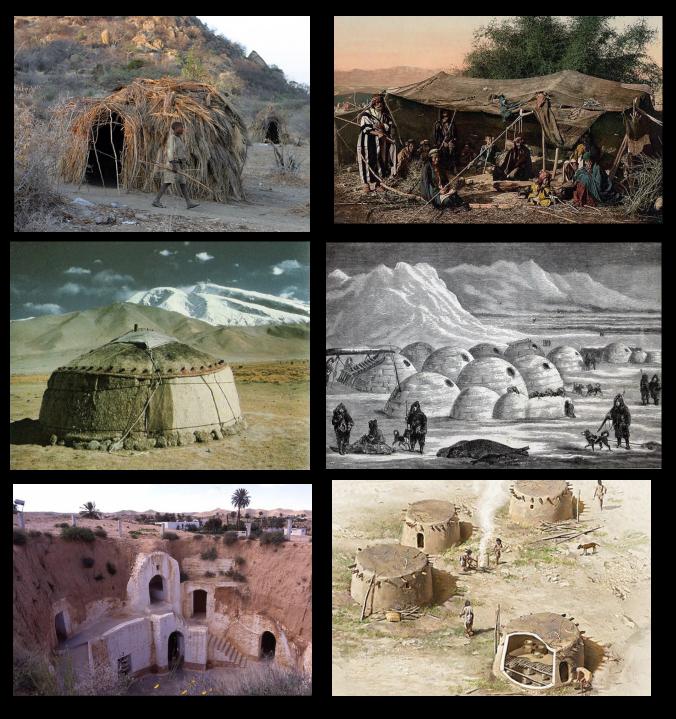
# Can complex adaptations result from such a dumb process?





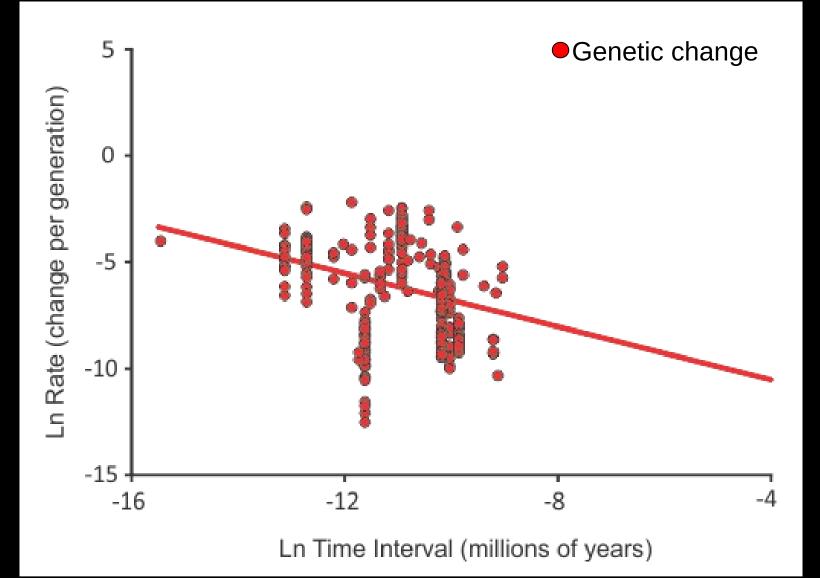


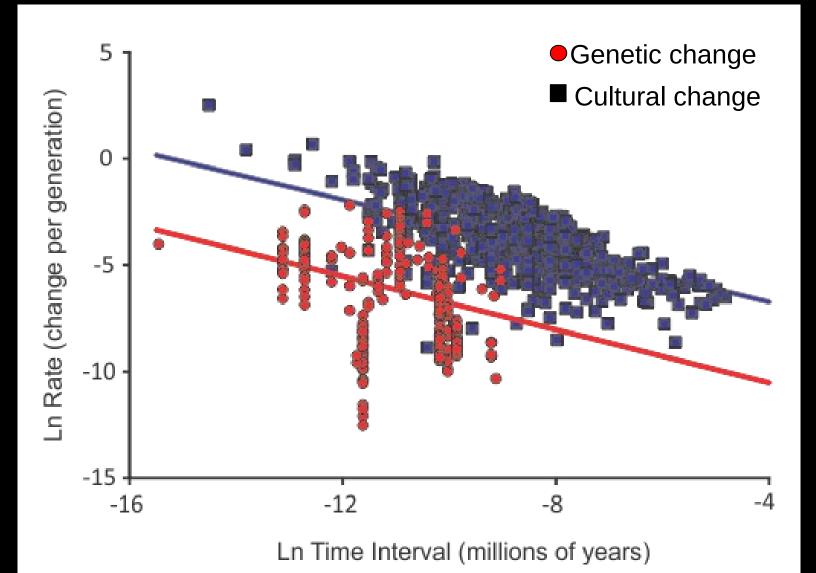


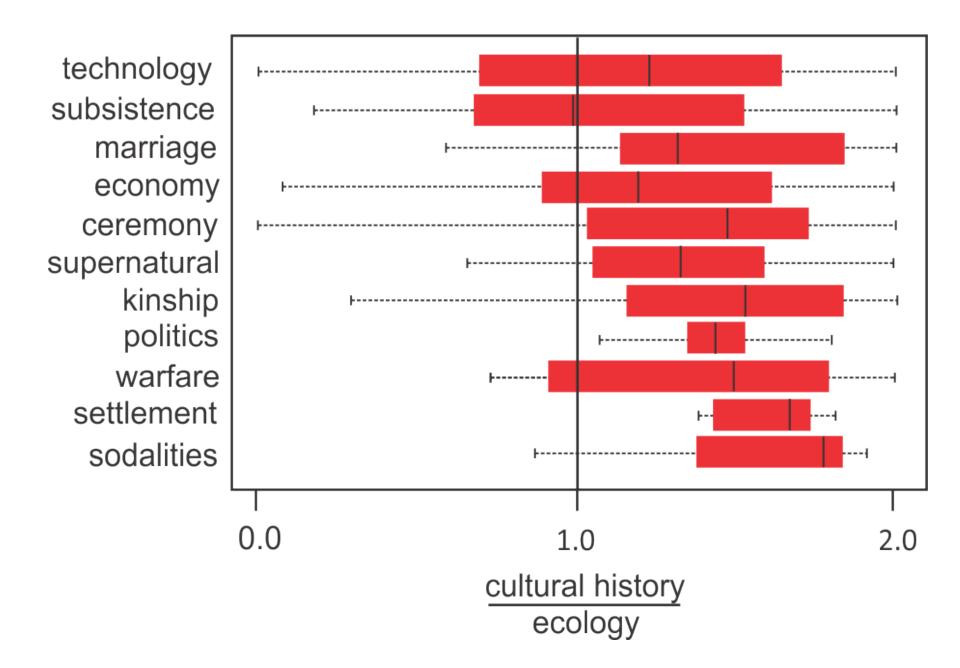


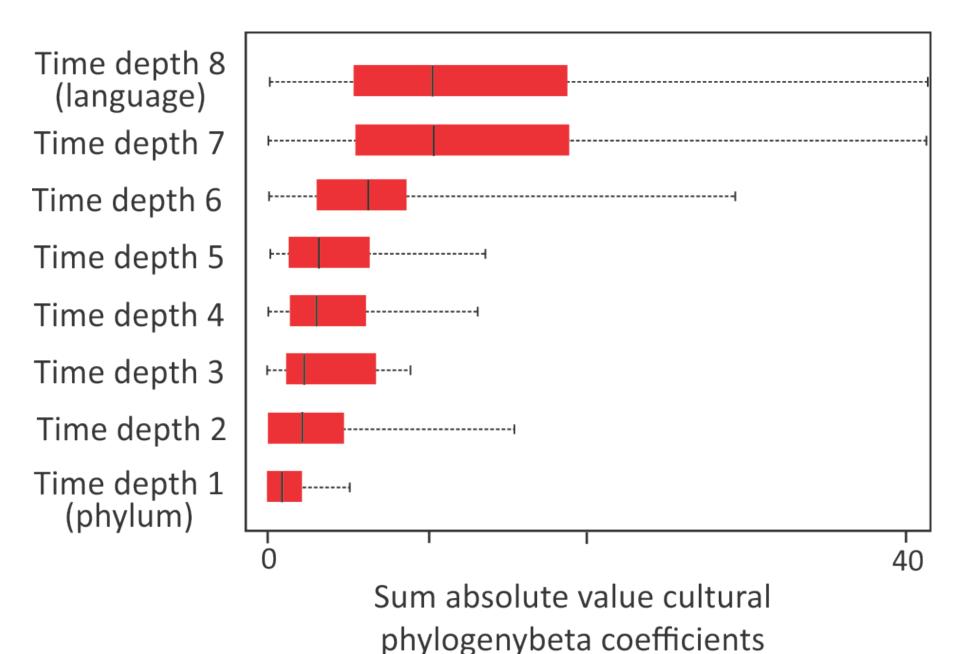






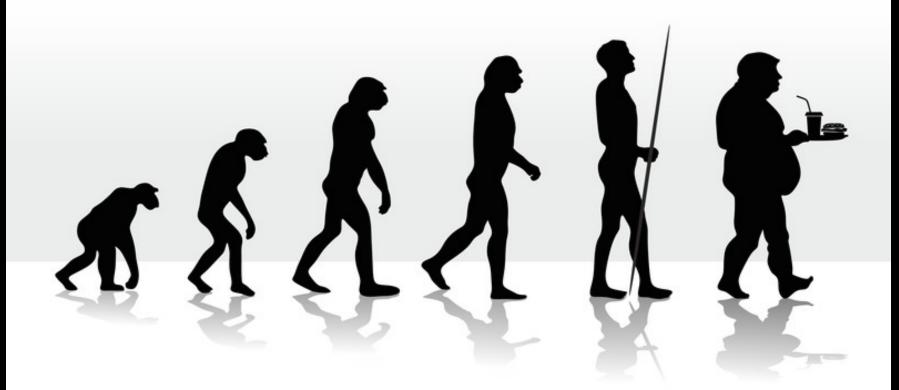






# This changes everything







## What about rodents?



## Many habitats = many species









## Many habitats = one species

