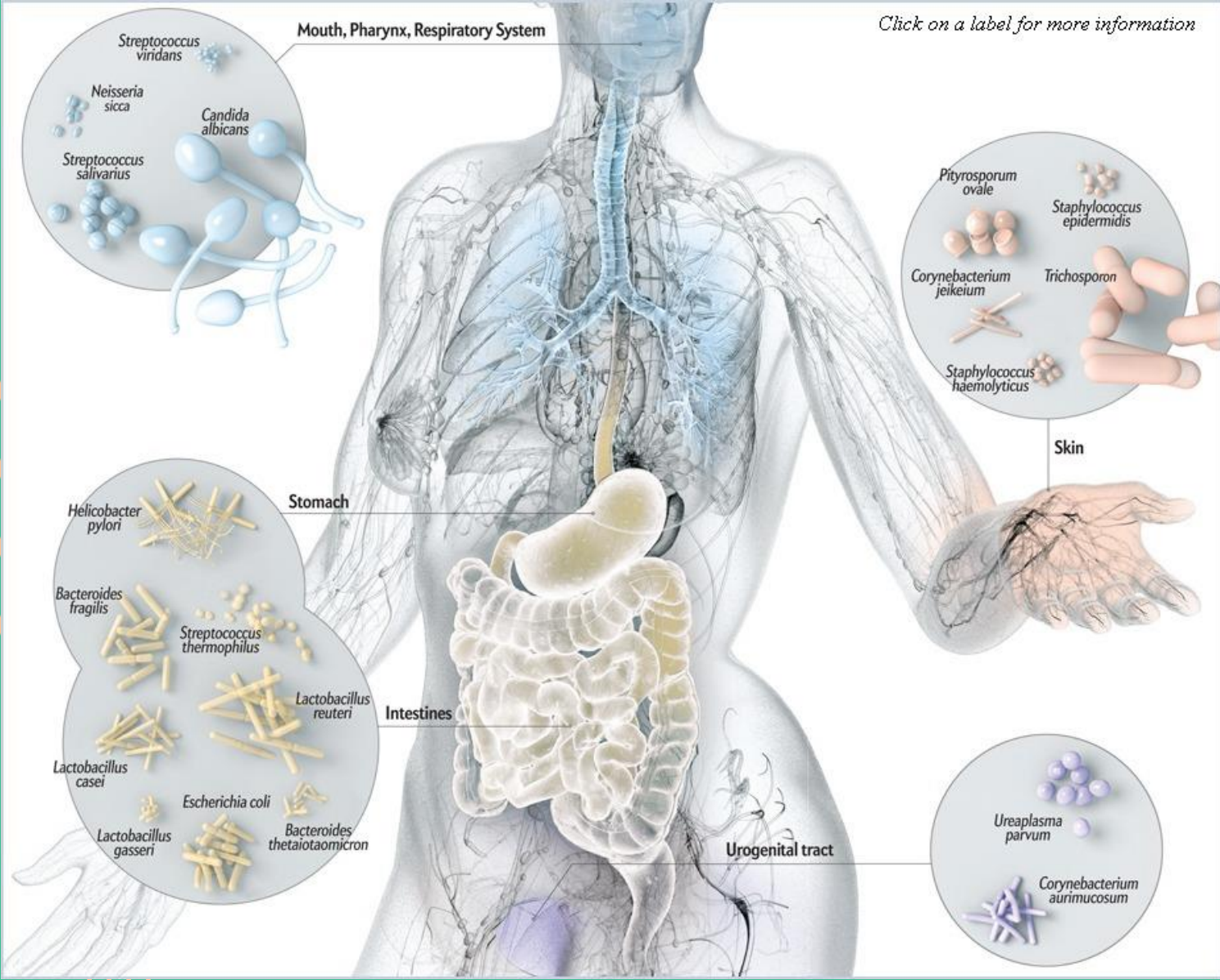


# NATURAL?

What is a species?



# NATURAL?



# NATURAL?



# NATURAL?

What is a species?

Morphology:

the physical form and structure  
of an entity.

Polymorphic:

An entity that may take various  
forms.

# NATURAL?

## What is a species?

“I look at the term species, as one arbitrarily given for the sake of convenience to a set of individuals closely resembling each other, and that it does not essentially differ from the term variety, which is given to less distinct and more fluctuating forms.”

-Darwin

# NATURAL?

What is a species?

-Species closest to Homo sapiens have the most variability within species:

- Dogs
- Cows
- Horses
- Cats

A wide spectrum of differences leads to health of a species (wide gene pool).

# NATURAL?

**Darwin suggests that species flourish through dominating their environments.**

**I think he's wrong!**

**Species flourish through integrating with their environments. The more mutually beneficial relationships they cultivate the more indispensable they are to their habitat?**

# NATURAL?

Darwin suggests that species flourish through dominating their environments.

**How are humans doing in this regard?**

... flourish through integrating with their environments. The more mutually beneficial relationships they cultivate the more indispensable they are to their habitat?

... wrong!



# BIODIVERSITY

Is biodiversity inherently good?



# BIODIVERSITY

**Is biodiversity inherently good?**

“An object with intrinsic value is something that is valuable for its own sake, independent of its usefulness to someone or something else.”

# BIODIVERSITY

Is biodiversity inherently good?

“An object with intrinsic value is something that is valuable for its own sake, independent of its usefulness to someone or something else.”

**Intrinsic value**  
**Vs.**  
**Utility value**

# BIODIVERSITY

Is biodiversity inherently good?

YES! The larger the genetic spectrum the better.

YES! The loss of one species could set off a chain reaction down the food chain.

YES! Every species took millions of years to evolve, and it will never evolve again.

Mmm. Biodiversity isn't *inherently* good, but it's good for ensuring the continuation of the conditions of the planet as we inherited them...

# BIODIVERSITY

Is biodiversity inherently good?

YES! The larger the genetic spectrum the better.

YES!  
chain

**Leave a campsite as  
you found it  
(or better).**

YES!  
evolve, and it will never evolve again.

Mmm. Biodiversity isn't *inherently* good, but it's good for ensuring the continuation of the conditions of the planet as we inherited them...

# BIODIVERSITY

Is biodiversity inherently good?

YES! The larger the genetic spectrum the better.

YES!  
chain

YES!  
evolve,

Mmm. Biodiversity is good for the continuation of the conditions of the planet as we inherited them...

**Leave a campsite as  
you found it  
(or better).**

**But was nature 'perfect'  
before we touched it?**

# BIODIVERSITY

## Is biodiversity inherently good?

“Biodiversity is thought to be important for strengthening ecosystem resilience and bolstering ecosystem adaptability to environmental variations such as climate change.”

# BIODIVERSITY

How do we harm biodiversity?





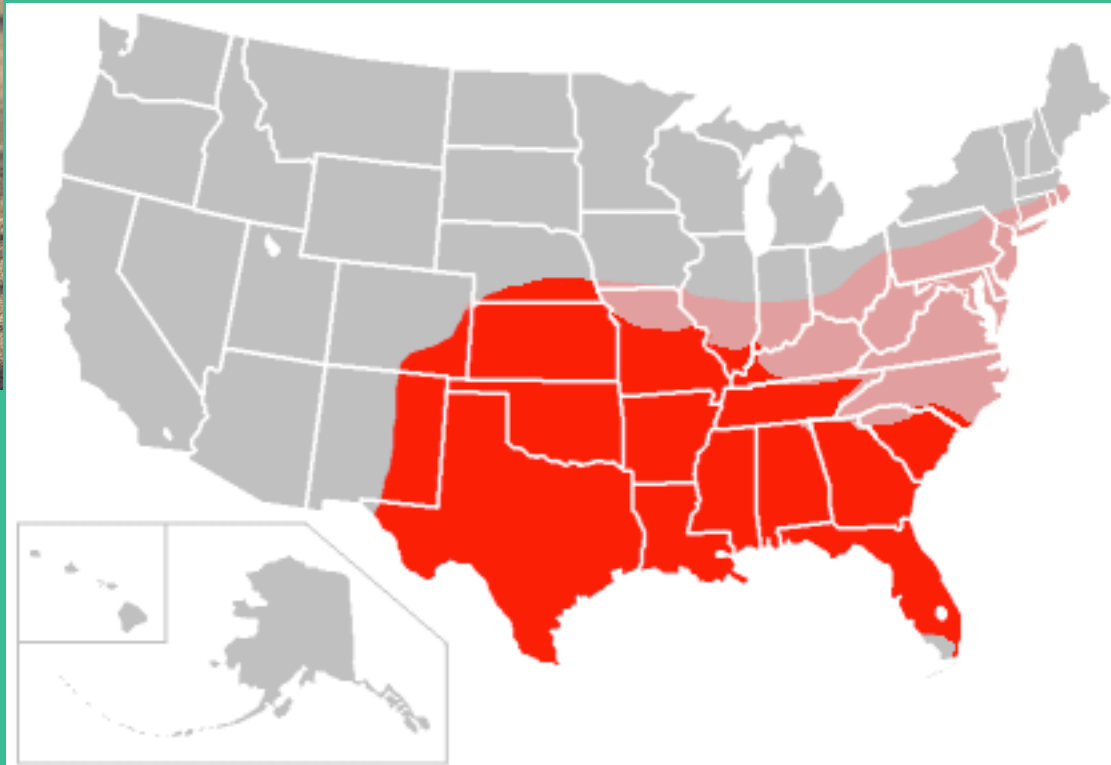
# BIODIVERSITY

## How do we harm biodiversity?

“Human-induced climate change threatens biodiversity, while biodiversity itself can reduce the adverse impacts of climate change.”

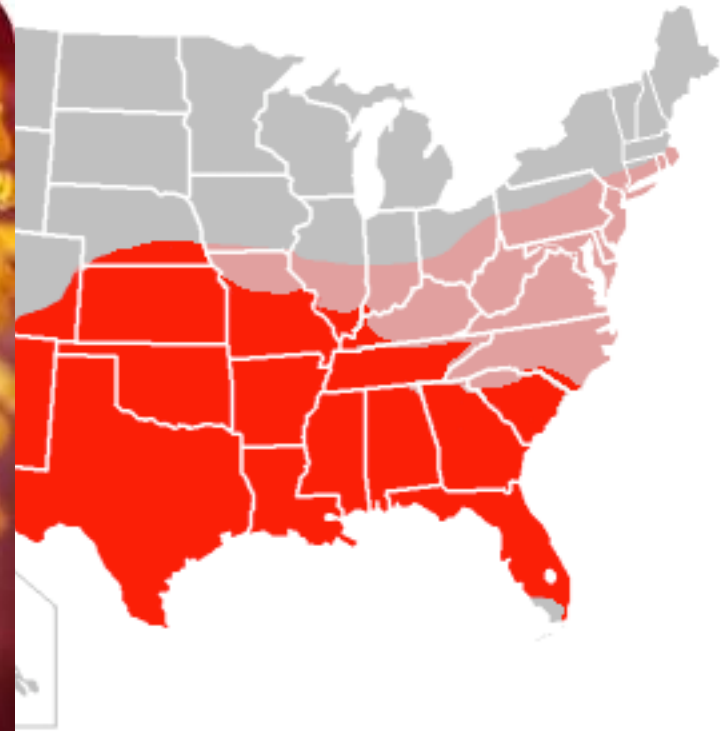
# BIODIVERSITY

How do we harm biodiversity?



# BIODIVERSITY

How do we harm biodiversity?



# BIODIVERSITY

How do we harm biodiversity?

Are we conquerors or  
keepers of 'nature'?

Destroyers or Rescuers?

Is Nature a threat or  
a refuge?

# BIODIVERSITY

How do we harm biodiversity?



# BIODIVERSITY



# BIODIVERSITY

## OVERFISHING:

1958 >



# BIODIVERSITY OVERFISHING

1975 >





# BIODIVERSITY

## OVERFISHING:

1985 >



# BIODIVERSITY

## OVERFISHING:

2007 >



# BIODIVERSITY

How do we harm biodiversity?



# BIODIVERSITY

How do we harm biodiversity?

**Was this our fault?**



# BIODIVERSITY

SOCIAL QUESTION  
?



# BIODIVERSITY

SOCIAL QUESTION  
?

**Should we get rid  
of this guy?**

