

Bret's Study Guide for the First Exam

Altruism

Evil

Self Interest (Selfishness)

Enlightened Self Interest

Tragedies of Commons

Races to the Bottom

Prisoner's Dilemmas

Kin Selection

Group Selection

Reciprocal Altruism

Morality

Indirect Reciprocity (reputation)

Gene

Allele

Meme

Ecological explanations for being absent from a location:

For example, a particular tree species is found only along the stretch of coastline from Monterey California to San Francisco. You can plant these trees in a garden south of Monterey and they will do fine, but if you try to plant them north of San Francisco, they never survive to maturity. Why don't you normally find them south of Monterey? Why not north of San Francisco?

Succession:

Why don't forest trees evolve to dominate all stages of succession? Wouldn't that be the best strategy? Why does succession happen? Why don't all patches of forest reach the climax community and stay there, driving all early succession species to extinction?