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others--has proven a powerful tool in uncovering the forces shaping otherwise mysterious behaviors.

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Game theory allows biologists to model how evolution affects strategies and tactics. When thinking about an evolutionary game,

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the biologist precisely defines the participants, their goals, and the actions they can take to meet the goals. Generally, there are many different possible strategies but some are obviously faulty.

## **Game Theory - Animal Behavior Online**

The contribution of  
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behavior - Volume 7

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Issue 1 - George W.  
Barlow, Thelma E.  
Rowell

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Behavioral Ecology. In  
animal conflicts, such  
as territory or food  
source defense, the  
success of one animal's  
chosen strategy  
depends on the  
strategies of the other  
individuals involved.

Because of this, animal

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conflicts can be modeled after simple games, such as "Rock, Paper, Scissors," in which the outcome of the game depends on which strategies each player chooses.

## **Behavioral Ecology: Game Theory | SparkNotes**

While game theory originally addressed zero-sum games wherein the loss of one resulted in the gain of

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another, it now has wide-ranging applications for animal behavior. The concepts of game theory that are so fundamental to modern animal behavior science include conditional costs and benefits (my costs and benefits of being social are relative to your costs and benefits of being social), rules of thumb, and iterated versus non-iterated

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interactions, which are directly applicable to practical ...

## **Game Theory - an overview | ScienceDirect Topics**

Evolutionary game theory encompasses Darwinian evolution, including competition (the game), natural selection (replicator dynamics), and heredity. Evolutionary game theory has contributed to the

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understanding of group selection, sexual selection, altruism, parental care, co-evolution, and ecological dynamics. Many counter-intuitive situations in these areas have been put on a firm mathematical footing by the use of these models.

## **Evolutionary game theory - Wikipedia**

This video is a response to Patrick



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Forber's lecture on the Evolution of Animal behavior. Video provides a brief summary of concepts such as altruism and two factor models of game theory for animal ...

## **Game Theory Model for Animal Behavior**

Evolutionary game theory predicts the appearance of evolutionary stable strategies, or behaviors

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that tend to persist within a population once they are prevalent. So let's think about this in terms of a complex behavior like altruism. So imagine that we have two groups of monkeys. In one group, the monkeys act selfishly.

**Evolutionary game theory (video) | Khan Academy**  
Game theory has

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revolutionized the study of animal behavior. The fundamental principle of evolutionary game theory--that the strategy adopted by one individual depends on the strategies exhibited...

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**Game Theory and  
Animal Behavior,  
Dugatkin, Lee Alan,**

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**Reeve ...**

The Game Theory & Animal Behavior is about agents and how agents enabled complex life, social behavior and ecological interactions, to arise. But complex life will require fine adjustment adaptation. Natural selection will favor "selfish" genes, ones that can beat the odds and get passed on.

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