# Axelrod-Python-Tournament Documentation

Release 0.0.23

**Axelrod-Python Project** 

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This documentation contains the latest results of the full tournament from the Axelrod-Python project.

Click on each type of tournament below to see plots of the results.

Contents:

# **Standard Tournaments**

Contents:

# **1.1 Basic Strategies**

# 1.1.1 Ranked violin plot

The mean utility of each player.

# 1.1.2 Payoffs

The pair wise utilities of each player.

# 1.1.3 Evolutionary dynamics

The evolutionary dynamic of the strategies (based on the utilities).

#### 1.1.4 Wins

The number of wins of each player.

# 1.1.5 Payoff differences

The payoff differences for each player.

# 1.1.6 Pairwise payoff differences

The difference of payoffs between pairs of players.

# 1.2 All Strategies (without cheaters)

# 1.2.1 Ranked violin plot

The mean utility of each player.

# 1.2.2 Payoffs

The pair wise utilities of each player.

#### 1.2.3 Evolutionary dynamics

The evolutionary dynamic of the strategies (based on the utilities).

# 1.2.4 Wins

The number of wins of each player.

#### 1.2.5 Payoff differences

The payoff differences for each player.

# 1.2.6 Pairwise payoff differences

The difference of payoffs between pairs of players.

# **1.3 All Strategies (including cheaters)**

# 1.3.1 Ranked violin plot

The mean utility of each player.

# 1.3.2 Payoffs

The pair wise utilities of each player.

# 1.3.3 Evolutionary dynamics

The evolutionary dynamic of the strategies (based on the utilities).

#### 1.3.4 Wins

The number of wins of each player.

# 1.3.5 Payoff differences

The payoff differences for each player.

# 1.3.6 Pairwise payoff differences

The difference of payoffs between pairs of players.

# **1.4 Cheating Strategies**

# 1.4.1 Ranked violin plot

The mean utility of each player.

#### 1.4.2 Payoffs

The pair wise utilities of each player.

#### 1.4.3 Evolutionary dynamics

The evolutionary dynamic of the strategies (based on the utilities).

#### 1.4.4 Wins

The number of wins of each player.

#### 1.4.5 Payoff differences

The payoff differences for each player.

#### 1.4.6 Pairwise payoff differences

The difference of payoffs between pairs of players.

# **Noisy Tournaments**

Contents:

# 2.1 All Strategies (without cheaters) and 5% noise

# 2.1.1 Ranked violin plot

The mean utility of each player.

# 2.1.2 Payoffs

The pair wise utilities of each player.

#### 2.1.3 Evolutionary dynamics

The evolutionary dynamic of the strategies (based on the utilities).

### 2.1.4 Wins

The number of wins of each player.

# 2.1.5 Payoff differences

The payoff differences for each player.

#### 2.1.6 Pairwise payoff differences

The difference of payoffs between pairs of players.

CHAPTER 3

Indices and tables

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