

---

# **Axelrod-Python-Tournament Documentation**

***Release 0.0.23***

**Axelrod-Python Project**

**Nov 20, 2018**



---

## Contents

---

<b>1</b>	<b>Standard Tournament</b>	<b>3</b>
1.1	Ranked violin plot . . . . .	3
1.2	Payoffs . . . . .	3
1.3	Evolutionary dynamics . . . . .	3
1.4	Wins . . . . .	3
1.5	Payoff differences . . . . .	3
1.6	Pairwise payoff differences . . . . .	4
1.7	Summary . . . . .	4
<b>2</b>	<b>Noisy Tournament</b>	<b>5</b>
2.1	Ranked violin plot . . . . .	5
2.2	Payoffs . . . . .	5
2.3	Evolutionary dynamics . . . . .	5
2.4	Wins . . . . .	5
2.5	Payoff differences . . . . .	5
2.6	Pairwise payoff differences . . . . .	6
2.7	Summary . . . . .	6
<b>3</b>	<b>Probabilistic Ending Tournament</b>	<b>7</b>
3.1	Ranked violin plot . . . . .	7
3.2	Payoffs . . . . .	7
3.3	Evolutionary dynamics . . . . .	7
3.4	Wins . . . . .	7
3.5	Payoff differences . . . . .	7
3.6	Pairwise payoff differences . . . . .	8
3.7	Match lengths . . . . .	8
3.8	Summary . . . . .	8
<b>4</b>	<b>Reproducing these results</b>	<b>9</b>
<b>5</b>	<b>Indices and tables</b>	<b>11</b>



This documentation contains the latest results of the full tournament from the [Axelrod-Python project](#).

Contents:



---

## Standard Tournament

---

### 1.1 Ranked violin plot

The mean utility of each player.

### 1.2 Payoffs

The pair wise utilities of each player.

### 1.3 Evolutionary dynamics

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

### 1.4 Wins

The number of wins of each player.

### 1.5 Payoff differences

The payoff differences for each player.

## 1.6 Pairwise payoff differences

The difference of payoffs between pairs of players.

## 1.7 Summary

Here is a file with the summary data.



#### **2.1 Ranked violin plot**

The mean utility of each player.

#### **2.2 Payoffs**

The pair wise utilities of each player.

#### **2.3 Evolutionary dynamics**

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

#### **2.4 Wins**

The number of wins of each player.

#### **2.5 Payoff differences**

The payoff differences for each player.

## 2.6 Pairwise payoff differences

The difference of payoffs between pairs of players.

## 2.7 Summary

Here is a file with summary data.

---

### Probabilistic Ending Tournament

---

#### **3.1 Ranked violin plot**

The mean utility of each player.

#### **3.2 Payoffs**

The pair wise utilities of each player.

#### **3.3 Evolutionary dynamics**

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

#### **3.4 Wins**

The number of wins of each player.

#### **3.5 Payoff differences**

The payoff differences for each player.

## 3.6 Pairwise payoff differences

The difference of payoffs between pairs of players.

## 3.7 Match lengths

The length of the matches

## 3.8 Summary

Here is a file with summary data.



## CHAPTER 4

---

### Reproducing these results

---

To reproduce these results:

```
python run_noisy.py
python run_std.py
python run_probend.py
```







## CHAPTER 5

---

### Indices and tables

---

- `genindex`
- `modindex`
- `search`