Chess Database

# 1. Introduction

This document is a summary of the chess database.

## 2. Games

The database contains 2600 games. The following sections describe the games in more detail.

# 2.1 Results

For all games, the following table shows the results.

## 2.1.1 Result table

The following table shows the results of games.

|  |  |  |  |
| --- | --- | --- | --- |
|  | White wins | Draws | Black wins |
| Total | 704 | 1600 | 296 |
| Percentage | 27.08% | 61.54% | 11.38% |

## 2.1.2 Result table for Stockfish

The following table shows the results of games where Stockfish either won or lost, depending on Stockfish color

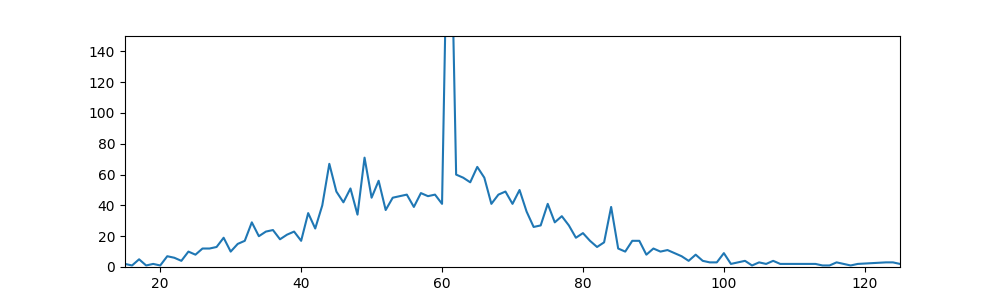
def create\_document\_result\_table\_with\_stockfish(self, list\_of\_games, list\_of\_drawed\_games):

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Wins | Draws | Losses | Winning Percentage |
| Starts as white | 698 | 601 | 2 | 53.65% |
| Starts as black | 294 | 999 | 6 | 22.63% |
| Total | 992 | 1600 | 8 | 38.15% |

## 2.3 Plycount distribution

The following graph shows the distribution of plycount in the database.

The x-axis shows the plycount, and the y-axis shows the number of games with that plycount.



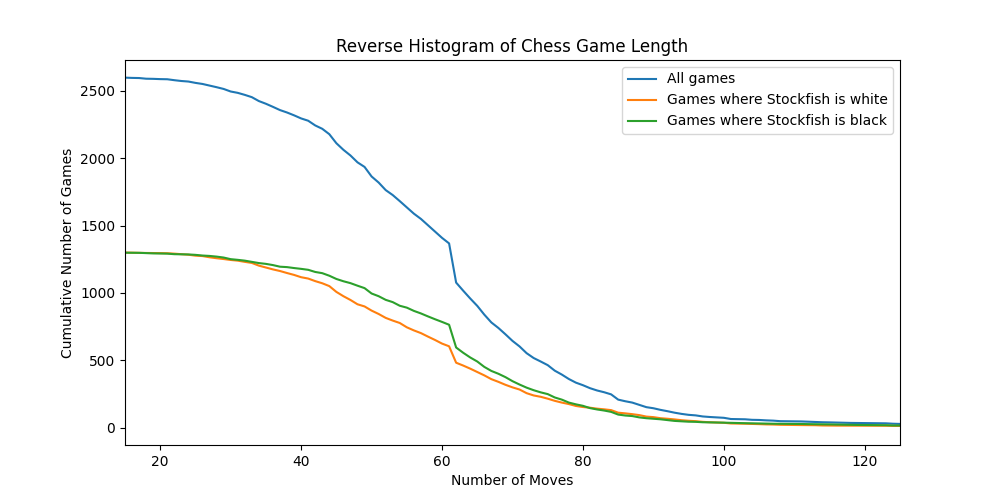
## 2.2 Move distributions

The following graphs shows the distribution of the amount moves in the given set of games.

The x-axis shows the number of moves, and the y-axis shows the number of games with that number of moves.

### 2.2.1 All games

The following graph shows the distribution of the amount moves in all games.

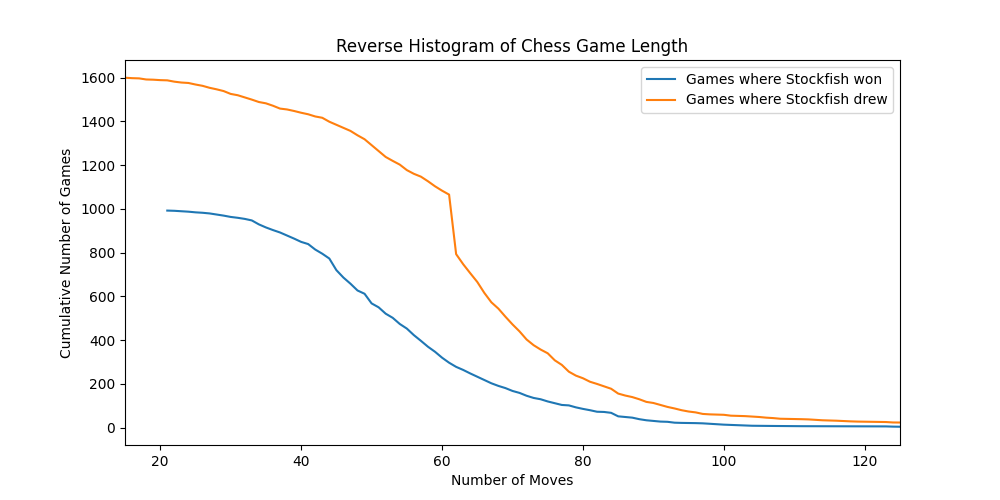


The following table shows the mean and standard deviation of the amount moves in all games.

|  |  |  |
| --- | --- | --- |
|  | Mean | Standard Deviation |
| Number of moves | 60.33 | 19.58 |

### 2.2.2 Either stockfish won or draws

The following graph shows the distribution of the amount moves in games where Stockfish won.

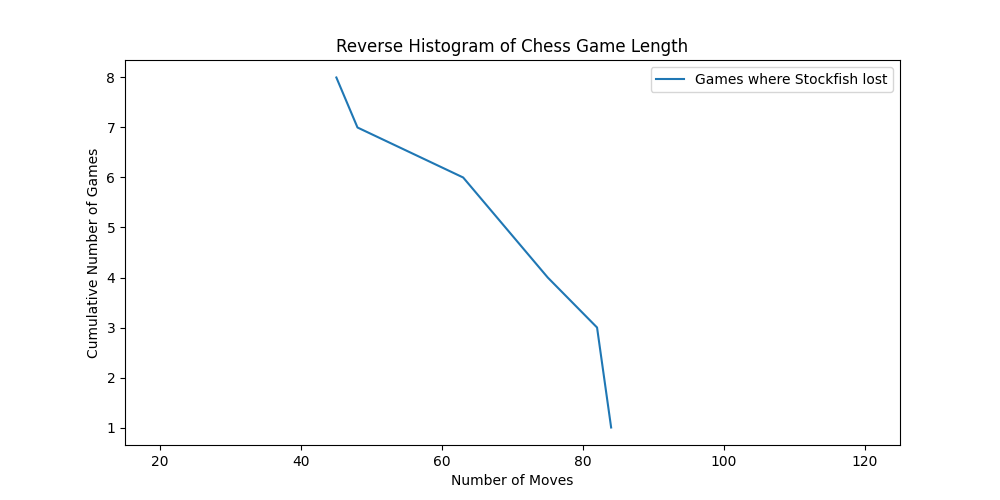


The following table shows the mean and standard deviation of the amount moves in games where Stockfish won.

|  |  |  |
| --- | --- | --- |
|  | Mean | Standard Deviation |
| Number of moves | 55.08 | 16.66 |

### 2.2.3 Stockfish loses

The following graph shows the distribution of the amount moves in games where Stockfish lost.



The following table shows the mean and standard deviation of the amount moves in games where Stockfish lost.

|  |  |  |
| --- | --- | --- |
|  | Mean | Standard Deviation |
| Number of moves | 68.62 | 14.48 |

# 3. Conclusion

This document is a summary of the chess database.