

Modules of the project: main.py

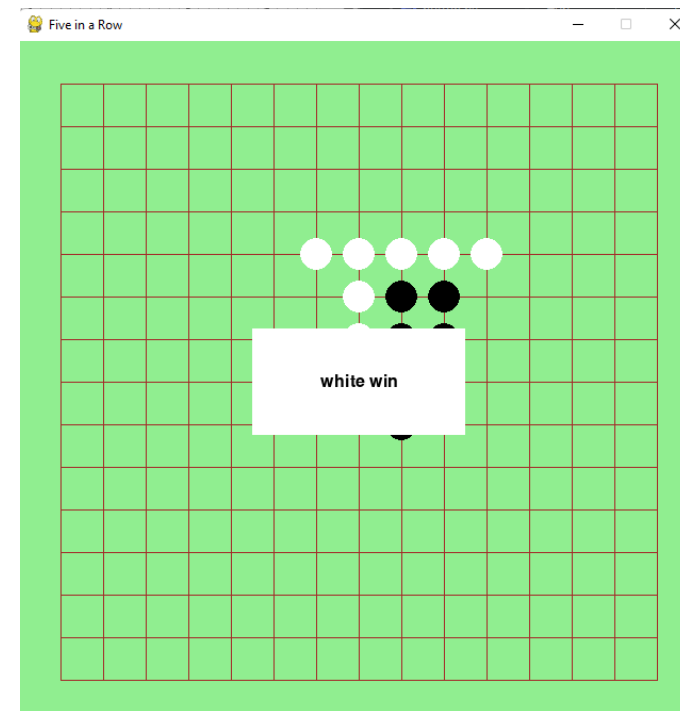
- python main.py can launch the game; modify the options.json file to start the game with different modes
- `def run_game(board):`
- `"""Run the game in different modes according to the user's configure file.`
- `"""`

options.json for a new 2-players game

```
{
  "restart_game": "no",
  "remember_me": "no",
  "player_number": 2,
  "manual": "no",
  "human_player": "black",
  "restart_file": "restart.txt",
  "restart_manual_file":
    "restart_manual_file.txt",
  "board_fill_color": [144,238,144],
  "board_line_color": [165,42,42],
  "screen_size": 640,
  "line_numbers": 15,
  "piece_size": 15
}
```

options.json for a restart 2-players game

```
{
  "restart_game": "yes",
  "remember_me": "no",
  "player_number": 2,
  "manual": "no",
  "human_player": "black",
  "restart_file": "restart.txt",
  "restart_manual_file":
    "restart_manual_file.txt",
  "board_fill_color": [144,238,144],
  "board_line_color": [165,42,42],
  "screen_size": 640,
  "line_numbers": 15,
  "piece_size": 15
}
```



1-player game vs “AI”

options.json for a new 1-players game with a user name, human player plays black (default mode)

```
{
  "restart_game": "no",
  "remember_me": "yes",
  "player_number": 1,
  "manual": "no",
  "human_player": "black",
  "restart_file": "restart.txt",
  "restart_manual_file":
    "restart_manual_file.txt",
  "board_fill_color": [144,238,144],
  "board_line_color": [165,42,42],
  "screen_size": 640,
  "line_numbers": 15,
  "piece_size": 15
}
```

options.json for a restart 1-players game with a user name, human player plays black

```
{
  "restart_game": "yes",
  "remember_me": "yes",
  "player_number": 1,
  "manual": "no",
  "human_player": "black",
  "restart_file": "restart.txt",
  "restart_manual_file":
    "restart_manual_file.txt",
  "board_fill_color": [144,238,144],
  "board_line_color": [165,42,42],
  "screen_size": 640,
  "line_numbers": 15,
  "piece_size": 15
}
```

options.json for a restart 1-players game with a user name, human player plays white

```
{
  "restart_game": "yes",
  "remember_me": "yes",
  "player_number": 1,
  "manual": "no",
  "human_player": "white",
  "restart_file": "restart.txt",
  "restart_manual_file":
    "restart_manual_file.txt",
  "board_fill_color": [144,238,144],
  "board_line_color": [165,42,42],
  "screen_size": 640,
  "line_numbers": 15,
  "piece_size": 15
}
```

Free placement mode

- Place any pieces of any color at any positions; left clicking places a black piece; right clicking places a white piece; clicking on a non-empty position remove the piece

options.json for free placement mode

```
{
  "restart_game": "no",
  "remember_me": "yes",
  "player_number": 1,
  "manual": "yes",
  "human_player": "black",
  "restart_file": "restart.txt",
  "restart_manual_file":
    "restart_manual_file.txt",
  "board_fill_color": [144,238,144],
  "board_line_color": [165,42,42],
  "screen_size": 640,
  "line_numbers": 15,
  "piece_size": 15
}
```