

Project 6

Project Members: Austin Cha
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Project Name: PyGo - The Game of Go

Github: <https://github.com/reeslabree/pygo>

Work Done:

All members worked on learning the PyGame library during the first week of the project sprint.

Austin:

- Update and restructured UML Class diagram
- Researched Go rules algorithms (to be implemented in next phase)
 - Get liberties function
 - Neighbor validity algorithm and function

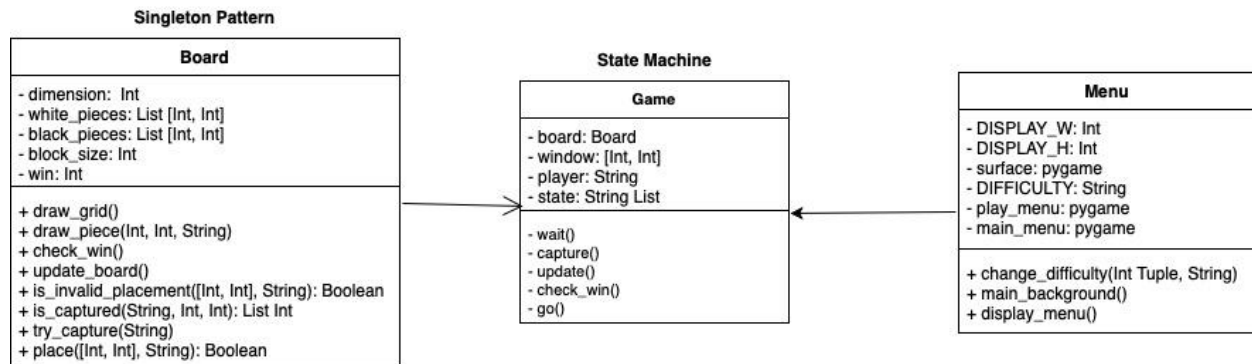
Rees:

- Built board class
 - Draw board
 - Place pieces on board
 - Algorithm for capturing pieces
 - Updating board graphics
- Built game class
 - State machine for handling state transitions. Built using a queue and a handler function that pops from the front of the queue.
 - States handlers for waiting for user input, capturing pieces, updating board graphics.
 - Pygame initialization

Jonathan:

- Built menu class (Branch Menu)
 - Start game loop
 - Select board size and game mode
 - Built with Pygame_menu library

Current UML Class Diagram:



Plan for Next Iteration:

- Keep track of score
- User Interface update to include options like 'Save Game', 'Exit', 'Pass' and 'Resign'
- Refactor game class to include a simple player class to help remove code duplicity
- Potentially refactor the state machine to be its own set of classes. While the first implementation works, I am not particularly satisfied with my first implementation and would like to simplify it to both make it easier to understand and easier to update.
- Integrate menu game loop with the game loop.
- Unit testing.