UML Diagrame
Checkers + Chess

Space
- row
- col
- piece

- row
- col
- piece

+draw
+is-free

+has-opponent

Board
- board
- factory
- size
- size

+setup
+get space
+directions
+pieces iterator
+iter

Move
- start
- end
- capture
- promotion
- promoted-piece
- captured-pieces

+execute
+undo
+add-promotion
+new-captures

list
Python-built-in-class

Checker moveset

Chess moveset

Checkers moves

Chess moves

Piece
- current-space
- board
- side
- side

+move
+promote
+enumerate-moves
+is-valid-moves

[Knight]

Checker

[Pawn]

[king]

KingChecker

Bishop

Rook

Queen

Piece factory

Checker factory

Chess factory

GameState

- Players
- turn counter
- Current side
- draw counter

- Current side
- board
- draw counter
+ nextturn
+ prev turn
+ all-possible-moves
+ all-piece
+ check-draw
+ check loss

CheckerGameState

Chess Game state

Player

+ side
+ depth

Take turn

Random player

Minimax

Human player

greedy player

Game Driver
- Player 1
- Player 2
- history
- game state

Start game

Chess gameDriver

Game history

- UndoStack
- redoStack

+ Undo
+ redo