

Tile
- value : int
+ Tile() + Tile(num : int) + isEmpty() : boolean + getValue() : int + setValue(val : int) : void + toString() : String + clone() : Tile

Board
- gameSize : int - board : Tile[][] - score : int
+ Board() + Board(size : int) + Board(size : int, newScore : int) + Board(filename : String) + loadBoardState(filename : String) : void + reset() : void + countEmptySpaces() : int + getScore() : int + isFull() : boolean + canMove() : boolean + addTile() : void + rotateCW() : void + left() : boolean + right() : boolean + up() : boolean + down() : boolean + quit() : void + toString() : String + copyBoard() : Board

<<enumerations>> UserAction
LEFT RIGHT UP DOWN QUIT RESET INVALID

Game2048View
- currentBoard : Board
+ Game2048View(Board brd) + setBoard(Board brd) : void + getUserAction() : UserAction + updateDisplay() : void

Game2048Controller
- board : Board - view : Game2048View
+ Game2048Controller(b : Board, v : Game2048View) + runGame() : void

Game2048
- board : Board - view : Game2048View - controller : Game2048Controller
+ Game2048 () + runGame() : void