

- BOARD SIZE: int - squares: JButton[][] - rack: JButton[] - selectedTile: JButton - justPlacedTiles: HashMap<Point,Character> - justPlacedPoints: Stack<Point> - gameLog: JTextArea - rackPanel: JPanel - scorePanel: JPanel - currentPlayerHand: ArrayList<Tile> - currentPlayer: boolean + ScrabbleGUI() · initializeBoard() + setDefaultSquareColor(row: int, col: int) + updateGameLog(message: String) + updateScores(player1Scores: int, player2Score: int) - setSurroundingTiles(grid: JButton[][], b: JButton) - checkWord(justPlacedTiles: HashMap<Point,Character>, justPlacedPoints: Stack<Point>, squares: JButton[][], tester boolean) - resetSquare(squares: JButton[][], x: int, y: int) - disableAdjacentSquares(squares: JButton[][], x: int, y:int) - enableAdjacentSquares(squares: JButton[][], x: int, y: int) <u>- setHand()</u> + main(args: String[])

+ newTile(tile: Tile)

- isFirstTurn: boolean

ScrabbleGUI

ScrabbleModel - board: Board - p1: Player - p2: Player - curPlayer: Player - drawPile: DrawPile dictionary: ArrayList<String> + ScrabbleModel() initDictionary(): ArrayList<String> - isValidPlacement(x1: int, y1: int, x2: int, y2: int): boolean - getWordScore(x1: int, x2: int, y1: int, y2: int): int - calculateScore(x1: int, y1: int, x2: int, y2: int, startScore: int): int + playerTurn(placementInfo: HashMap<Point,Character>): boolean - buildWord(x1: int, x2: int, y1: int, y2: int): String + switchPlayers() + shufflePlayerHand() - int findGap(x: int, y: int, x_vec: int, y_vec: int): int + getPlayerHand(player: Player): ArrayList<Tile> + setPlayerHand(hand: ArrayList<Tile>) + setStartP1() + getWinner(): int + getCurPlayer(): Player + getPlayerOneScore(): int

+ getPlayerTwoScore(): int

+ getCurPlayerScore(): int

+ getCurPlayerHand(): ArrayList<Tile>