

<b>Charactar</b>
# boolean _over # boolean _fallen # Stack<String> _status # int _attraction # int _pendingLikeChange # ArrayList<TreeNode> _stage1 # ArrayList<TreeNode> _stage2 # ArrayList<TreeNode> _stage3 # ArrayList<TreeNode> _currentStage # String _descrip # String _name # Player _player # boolean _isRichard # int x # int y
+ boolean isOver() + boolean hasFallen() + String getStatus() + int getAttraction() + ArrayList<TreeNode> getStage() + String getDescrip() + String getName() + boolean getIR() + boolean setOver(boolean isOver) + boolean setFallen(boolean hasFallen) + String changeStatus() + void friendify() + String maintainStatus(int oldAttraction) + int changeAttraction(int change) + boolean updateTree(TreeNode newHead) + int probeTree() + int probeTreeHelper(TreeNode node)

\*Note: Charactar has 3 subclasses: Jessica, Brad, and Richard. The only distinction between these subclasses is the differences in their constructors. We've set it up this way to avoid convoluted Charactar instantiations in Woo; this way, we can create Jessica, Brad, and Richard without having an overly complicated set of parameters in the constructor.

<b>Woo</b>
- Brad _brad - Jessica _jessica - Richard _richard - Player _player - boolean _gameOver - boolean _firstTime;
+ void introduction() + void play() + static void type(String s) + static void delay (int milliseconds) + static String removePunctuation(String word)

<b>Player</b>
- ArrayList<Charactar> _rank - String _name - boolean _hasFriend - boolean _dead
+ ArrayList<Charactar> getRank() + void sortRank() + void addToRank(Charactar character) + String getName() + String setName(String name) + boolean hasFriend() + void giveFriend() + boolean isDead() + boolean die()

<b>Scanny</b>
- _response
+ String toString() + static void type(String s) + static void delay (int milliseconds)

\*Note: Much of Scanny's functionality is contained in its constructor. It works similarly to Scanner but also gives the player the opportunity to ask a friend for advice before providing a response.

<b>abstract TreeNode</b>
# ArrayList<TreeNode> _children # int _likeChange # Charactar _character # Player _player
+ abstract void interact() + ArrayList<Integer> getChildrenLikeChanges() + ArrayList<TreeNode> getChildren() + static void type(String s) + static void delay (int milliseconds)

\*Note: Each node in the storyline tree will be coded individually (a class for each node). It will extend TreeNode, and each will have a specialized interact() method (this is essentially a chatbox)