COMP6710 Assignment2

Group Thu11d

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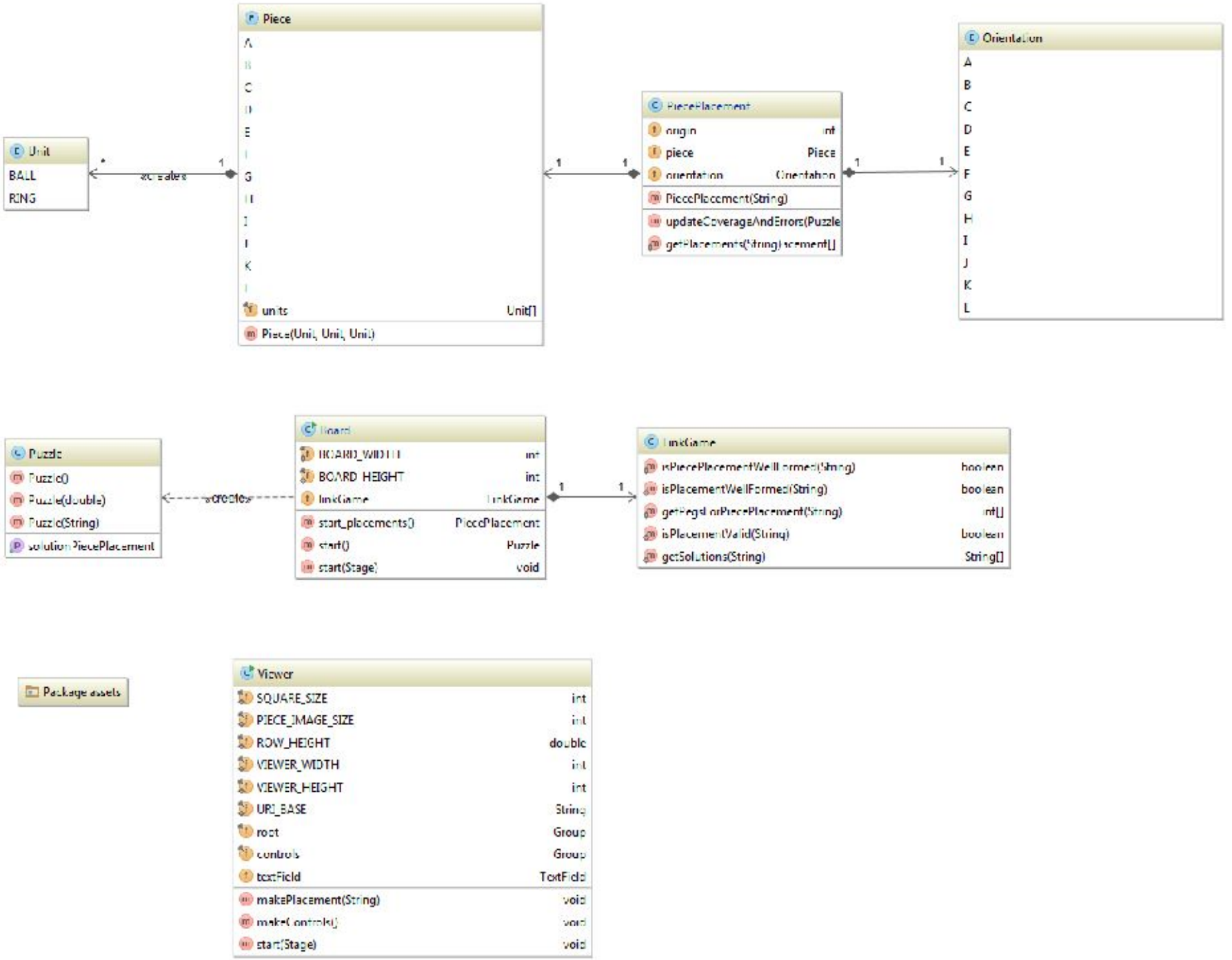
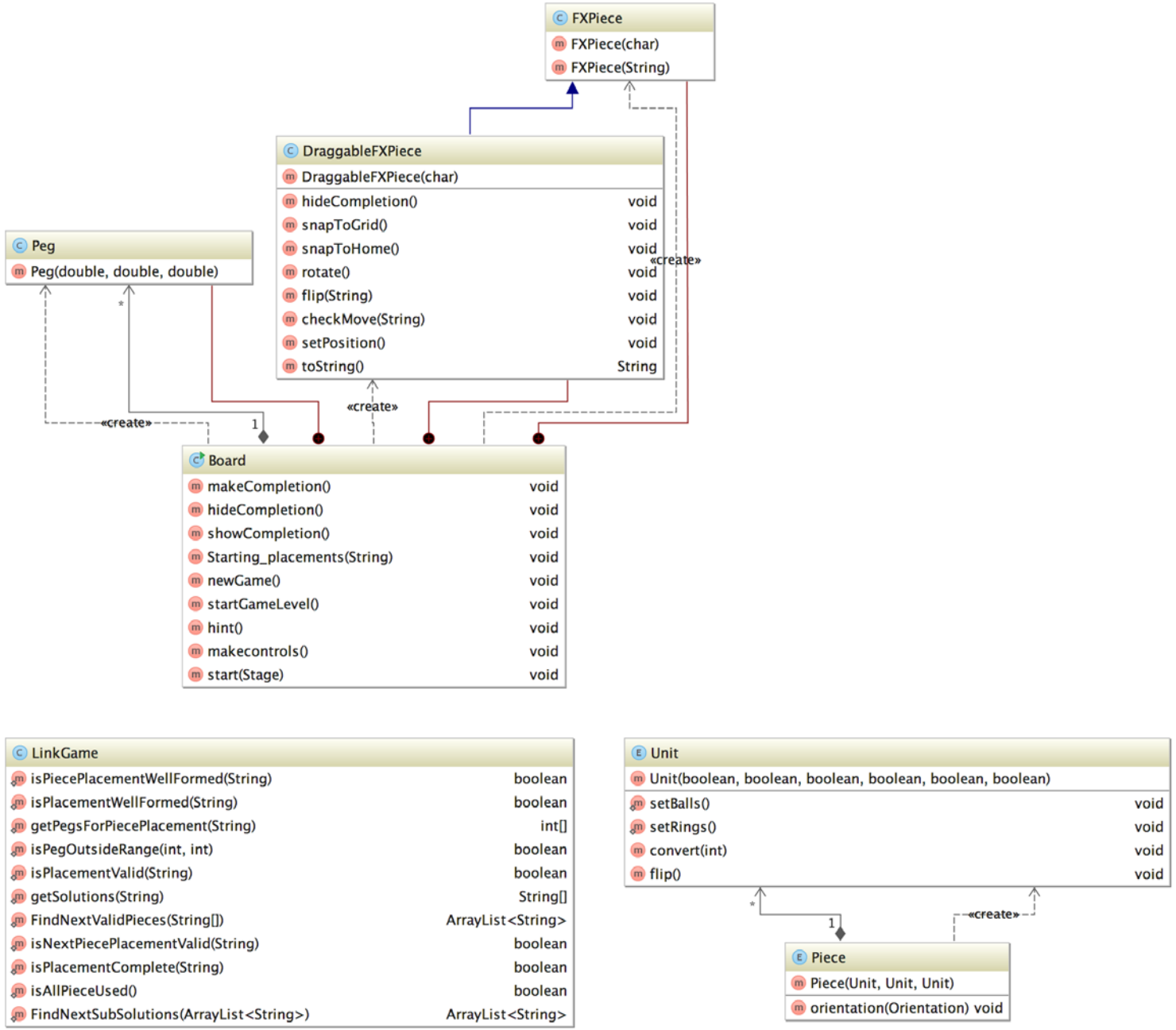
Summary of content

- Use a waterfall methodology to develop our game:
  - Get the requirement first
  - Design the UML diagram
  - Implement the function
  - Develop our program from tests
  - Build game UI
  - Improve user experience

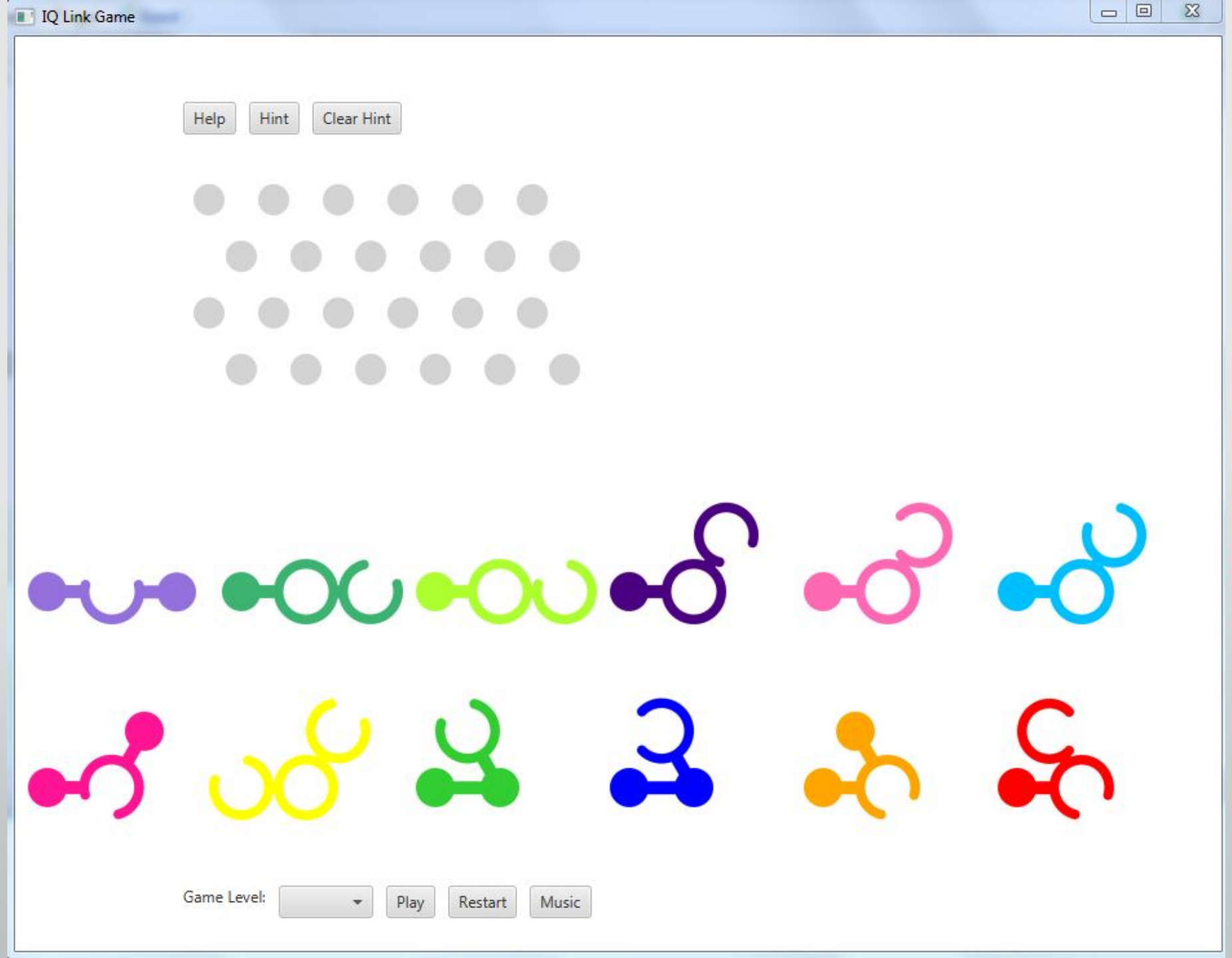
Class Diagram

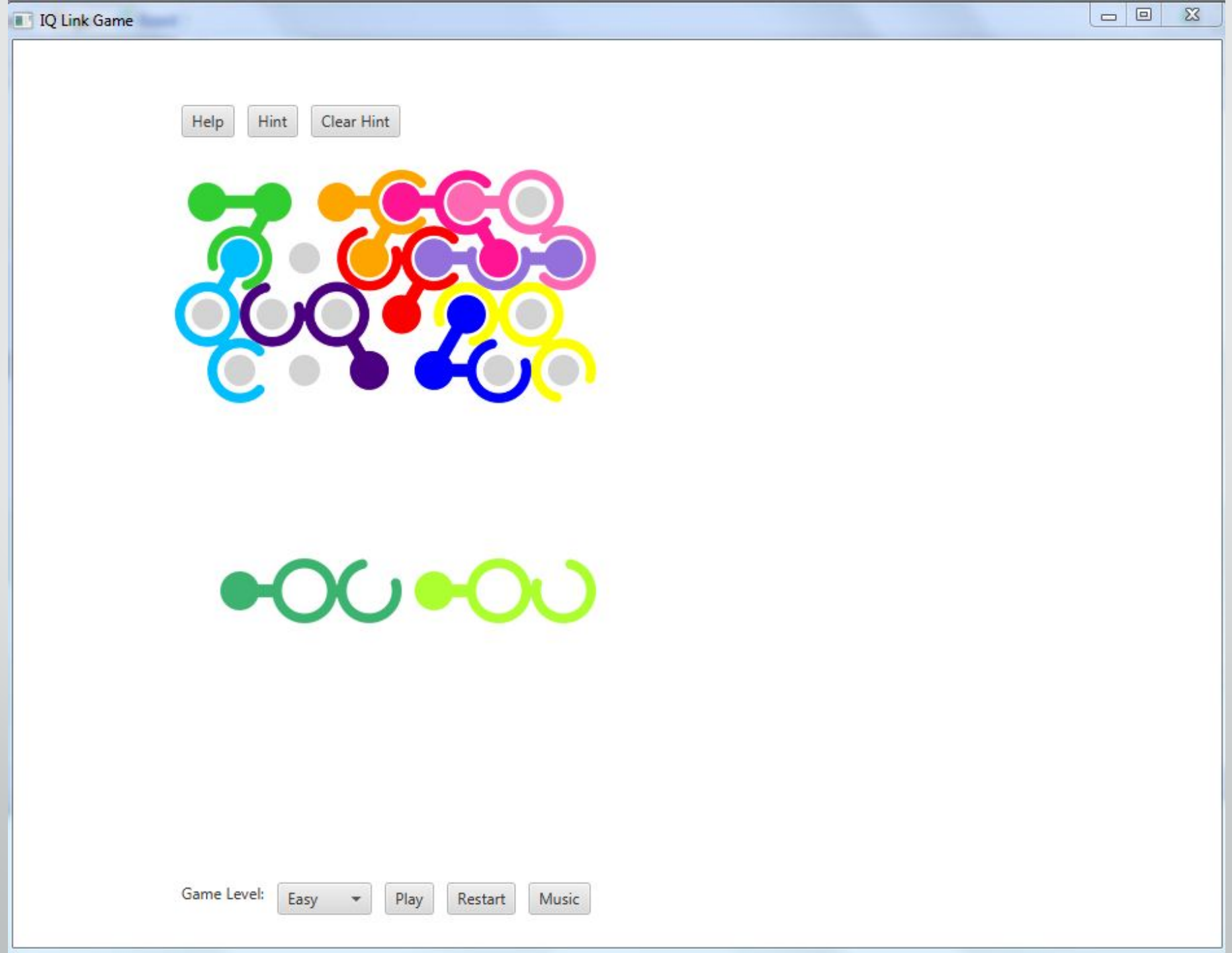

Piece
A
B
C
D
E
F
G
H
I
J
K
L
units Unit[]
Piece(Unit, Unit, Unit)
Unit
BALL
RING
creates
1
*
PiecePlacement
origin int
piece Piece
orientation Orientation
PiecePlacement(String)
updateCoverageAndErrors(Puzzle
Orientation
A
B
C
D
E
F
G
H
I
J
K
L
Puzzle
Puzzle()
Puzzle(double)
Puzzle(String)
solution:PiecePlacement
creates
Board
BOARD_WIDTH int
BOARD_HEIGHT int
linkGame LinkGame
start_placements() PieceePlacement
start() Puzzle
start(Stage) void
LinkGame
isPiecePlacementWellFormed(String) boolean
isPlacementWellFormed(String) boolean
getPegsForPiecePlacement(String) int[]
isPlacementValid(String) boolean
getSolutions(String) String[]
Package assets
Viewer
SQUARE_SIZE int
PIECE_IMAGE_SIZE int
ROW_HEIGHT double
VIEWER_WIDTH int
VIEWER_HEIGHT int
URI_BASE String
root Group
controls Group
textField TextField
makePlacement(String) void
make(controls) void
start(Stage) void

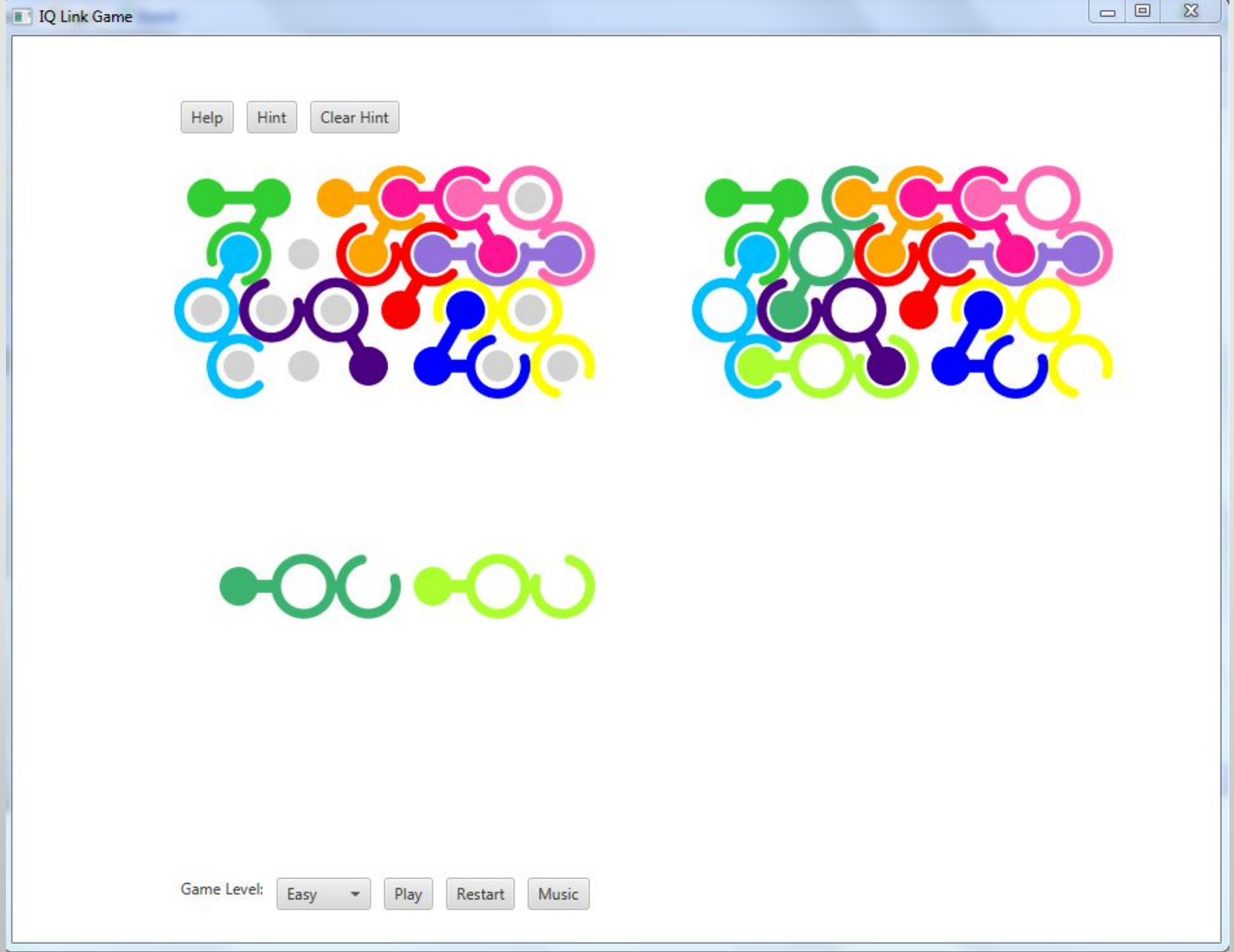


Powered by yFiles

Screen of games


IQ Link Game
Help
Hint
Clear Hint
Game Level:
Play
Restart
Music


IQ Link Game
Help
Hint
Clear Hint
Game Level:
Easy
Play
Restart
Music

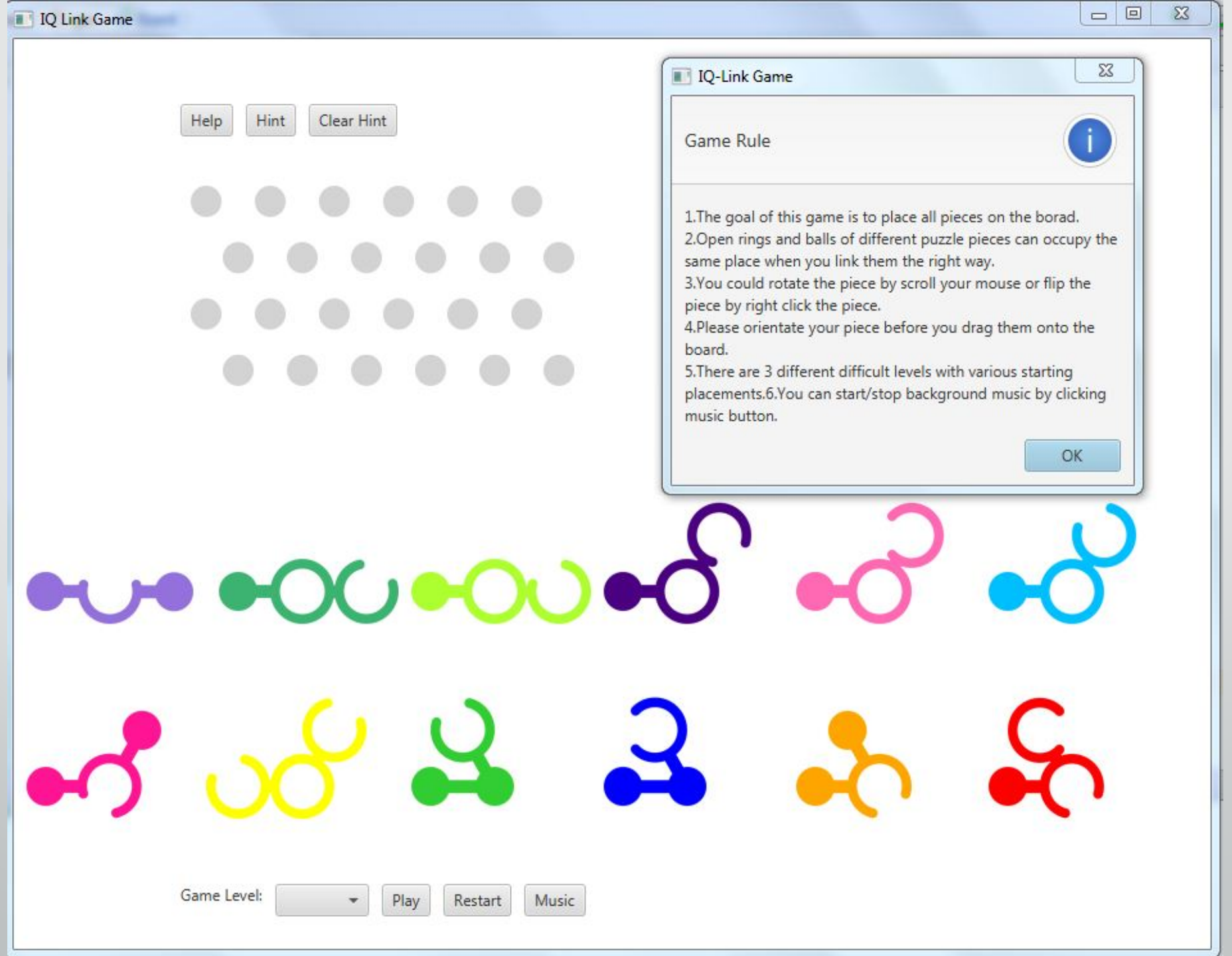

IQ Link Game
Help
Hint
Clear Hint
Game Level:
Easy
Play
Restart
Music

IQ Link Game

Help Hint Clear Hint

Well Done!

Game Level: Easy Play Restart Music


IQ Link Game
Help
Hint
Clear Hint
IQ-Link Game
Game Rule
1.The goal of this game is to place all pieces on the borad.
2.Open rings and balls of different puzzle pieces can occupy the same place when you link them the right way.
3.You could rotate the piece by scroll your mouse or flip the piece by right click the piece.
4.Please orientate your piece before you drag them onto the board.
5.There are 3 different difficult levels with various starting placements.6.You can start/stop background music by clicking music button.
OK
Game Level:
Play
Restart
Music