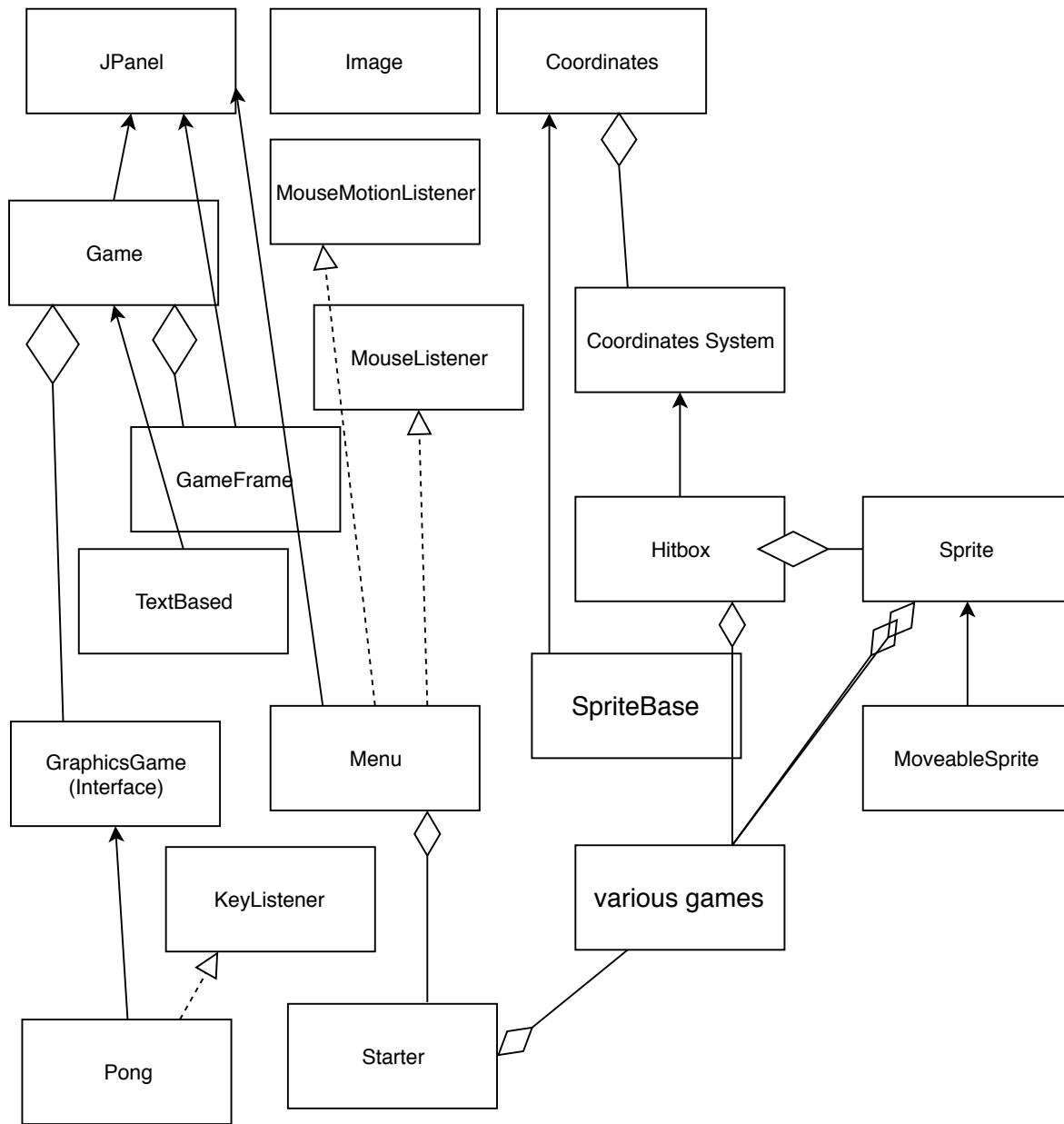


Capstone UML Diagram (rough draft)



Methods

```
public CoordinateSystem(int x, int y, int xDimension, int yDimension)
// sets left right up down corners

public void rotateRadians(double radians)
// rotates coordiantes
public void rotateDegrees(double degrees)
// converts degrees to radians and then rotates them

public Coordinates getCenter()

public Coordinates getBottomRight()

public Coordinates getBottomLeft()

public Coordinates getTopRight()

public Coordinates getTopLeft()
```

Fields

```
public static final double PI = Math.PI;
private Coordinates topLeft;
private Coordinates topRight;
private Coordinates bottomLeft;
private Coordinates bottomRight;
private Coordinates center;
private int width;
private int height;
private int x, y; // measures input coordinates
public AffineTransform getCoordinates()
public void verticalShift(double dy)
public void horizontalShift(double dx)
```