



## CS 101

### Problem Solving and Object-Oriented Programming

### Objectdraw Reference

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#### FilledRect, FramedRect, FilledOval, FramedOval

The following constructors and methods apply to all 4 of these classes. The only difference is in the name of the constructor.

```
public FilledRect(double x, double y, double width, double height,
                  DrawingCanvas canvas)
public FilledRect(Location origin, double width, double height,
                  DrawingCanvas canvas)
public boolean contains(Location point)
public Color getColor()
public double getHeight()
public double getWidth()
public double getX()
public double getY()
public void move(double dx, double dy)
public void removeFromCanvas()
public void setColor(Color c)
public void setHeight(double height)
public void setWidth(double width)
```

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#### Line

```
public Line(double startx, double starty, double endx, double endy,
            DrawingCanvas c)
public Line(Location start, Location end, DrawingCanvas canvas)
public boolean contains(Location point)
public Color getColor()
public Location getEnd()
public Location getStart()
public void move(double dx, double dy)
public void removeFromCanvas()
public void setColor(Color c)
public void setEnd(Location point)
public void setStart(Location point)
```

## Location

```
public Location(double x, double y)
public double getX()
public double getY()
```

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## RandomIntGenerator

```
public RandomIntGenerator(int min, int max)
public nextValue()
```

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## Text

```
public Text(String text, double x, double y, DrawingCanvas canvas)
public Text(String text, Location origin, DrawingCanvas canvas)
public boolean contains(Location point)
public Color getColor()
public double getHeight()
public String getText()
public double getWidth()
public double getX()
public double getY()
public void move(double dx, double dy)
public void removeFromCanvas()
public void setColor(Color c)
public void setText (String text)
```

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## Color

```
public Color(int r, int g, int b)
public Color brighter()
public Color darker()
public int getBlue()
public int getGreen()
public int getRed()
```