

CSE 142 Section Handout #3 Cheat Sheet

Parameters (3.1)

(A way to pass information in to a method)

Declaration:

```
public static void name(type name, ..., type name) {
    statements;
}
```

Example:

```
public static void box(int width, int height) {
    for (int i = 1; i <= height; i++) {
        for (int j = 1; j <= width; j++) {
            System.out.print("*");
        }
        System.out.println(); // to end the line of output
    }
}
```

Call:

methodName (**expression**, ..., **expression**);

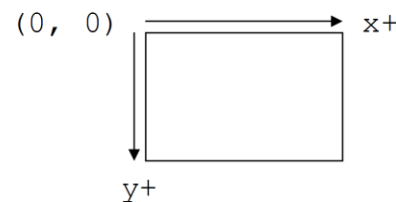
Example:

```
public static void main(String[] args) {
    box(10, 7); // width = 10, height = 7
    box(5, 3); // width = 5, height = 3
}
```

DrawingPanel (3G)

(Allows you to draw graphics on a window)

```
import java.awt.*;
...
DrawingPanel name = new DrawingPanel(width, height);
Graphics g = name.getGraphics();
draw shapes;
```



Example:

```
DrawingPanel panel = new DrawingPanel(400, 300);
Graphics g = panel.getGraphics();
g.drawRect(10, 30, 80, 100);
```

Drawing command	Description
panel.setBackground(color);	sets Panel's background color (changing canvas color)
g.setColor(color);	sets Graphics pen color (like dipping a brush in paint)
g.drawLine(x1 , y1 , x2 , y2);	draws a line from point (x1 , y1) to (x2 , y2)
g.drawRect(x , y , width , height);	draws outline of rectangle with top left corner at (x , y) and given width and height
g.drawOval(x , y , width , height);	draws outline of largest oval to fit rectangle with top left corner at (x , y) and given width and height
g.fillRect(x , y , width , height);	drawRect, but fills in rectangle with current color
g.fillOval(x , y , width , height);	drawOval, but fills in oval with current color
g.drawString(text , x , y);	draws given text with its lower-left corner at (x , y)
g.setFont(font);	sets font for drawing strings

Colors and Fonts (3G)

Color.BLACK	Color.BLUE	Color.CYAN	Color.DARK_GRAY	Color.GRAY
Color.GREEN	Color.LIGHT_GRAY	Color.MAGENTA	Color.ORANGE	Color.PINK
Color.RED	Color.WHITE	Color.YELLOW		

```
new Color(red, green, blue)
new Font(name, style, size)
```

Example:

```
panel.setBackground(Color.YELLOW);
g.setColor(new Color(255, 196, 64));
g.setFont(new Font("Arial", Font.BOLD, 16));
```