

# CSE 143X Section Handout #2 Cheat Sheet 3

## 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 i = 1; i <= width; i++) {
            System.out.print("*");
        }
        System.out.println(); // to end the line of output
    }
}
```

Call:

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

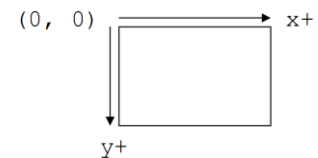
Example:

```
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( <b>color</b> );	sets panel's background color
g.setColor( <b>color</b> );	sets Graphics pen color (like dipping a brush in paint)
g.drawLine( <b>x1</b> , <b>y1</b> , <b>x2</b> , <b>y2</b> );	a line from points (x1, y1) to (x2, y2)
g.drawRect( <b>x</b> , <b>y</b> , <b>width</b> , <b>height</b> );	the outline of rectangle at (x, y)
g.drawOval( <b>x</b> , <b>y</b> , <b>width</b> , <b>height</b> );	the outline of the largest oval to fit within rectangle of size (width * height) at (x, y)
g.fillRect( <b>x</b> , <b>y</b> , <b>width</b> , <b>height</b> );	a filled rectangle of size (width x height)
g.fillOval( <b>x</b> , <b>y</b> , <b>width</b> , <b>height</b> );	a filled oval
g.drawString( <b>text</b> , <b>x</b> , <b>y</b> );	the given text with its lower-left corner at (x, y)
g.setFont( <b>font</b> );	sets font to specified font for next strings drawn

## 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));
```