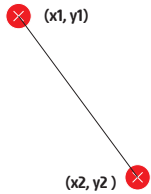
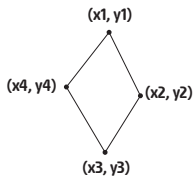


rect(x, y, width, height);
 Draws a rectangle anchored at the top left corner, in position (x, y) and with size "width" and "height".

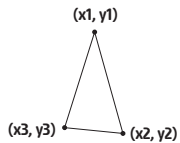
- **rectMode(CORNER);**
- **rectMode(CENTER);** (x,y) at the centre
- **rectMode(RADIUS);** "width" and "height" are the radius from the centre at (x,y)



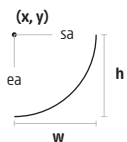
line(x1, y1, x2, y2);
 Draws a line from point (x1, y1) to (x2, y2)



quad(x1, y1, x2, y2, x3, y3, x4, y4);
 Draws a quadrilateral with the four vertex positions passed to the function.



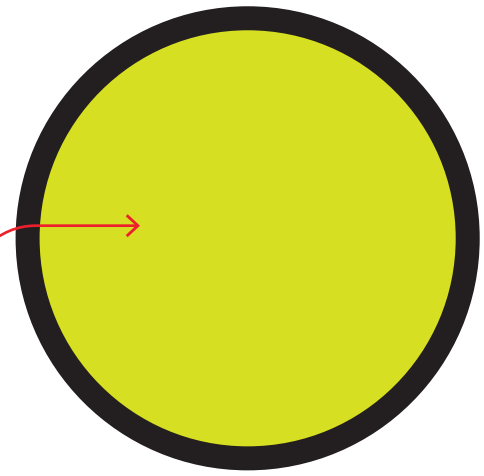
triangle(x1, y1, x2, y2, x3, y3);
 Draws a triangle with the three vertex positions passed as arguments.



arc(x, y, w, h, sa, ea);
 Draws an arc from position (x,y), with size "w" width, "h" height, "sa" start angle and "ea" end angle passed as radians.

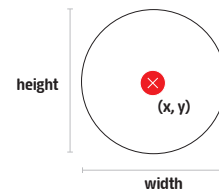
Useful constants in processing:
TWO_PI, PI, HALF_PI.

Basic geometry and graphics primitive shapes



Processing Code

```
stroke(0);
strokeWeight(10);
fill(215,223,35);
ellipse(x,y, 200, 200);
```



ellipse(x, y, width, height);
 Draws an ellipse centered at position (x, y) and with size "width" and "height". Specifying the same values for "width" and "height" makes a circle.

fill(), noFill(), stroke(), noStroke()

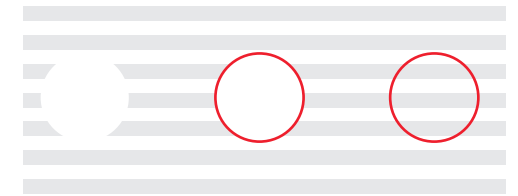
Border, stroke & fill setting functions for graphics shapes

```
fill(red, green, blue) = fill(red,green, blue, alpha)
fill(grey_level) = fill( grey_level, alpha)
```

```
stroke(red, green, blue) = stroke(red,green, blue, alpha)
stroke( grey_level) = stroke( grey_level, alpha)
```

* Value scale of red, green, blue, alpha and grey_level ranges from 0 (darkest) to 255 (brightest).

noStroke() and noFill();
 Disable stroke and fill color.



```
fill(255); noStroke();
fill(255); stroke(255,0,0);
noFill(); stroke(255,0,0);
```

strokeWeight(1); **strokeWeight();**

strokeWeight(10);
 Sets the width of the stroke used for lines, points, and the border around shapes. All widths are set in units of pixels.