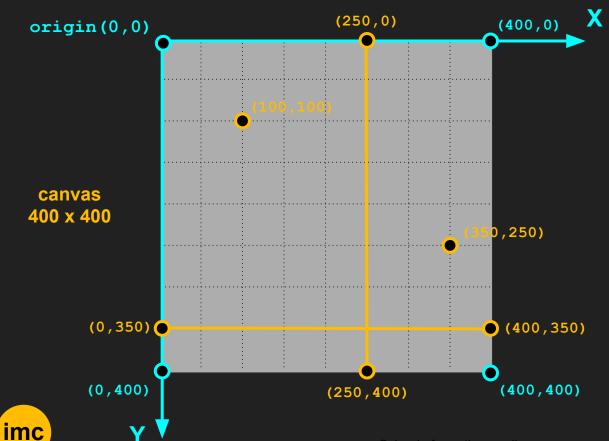




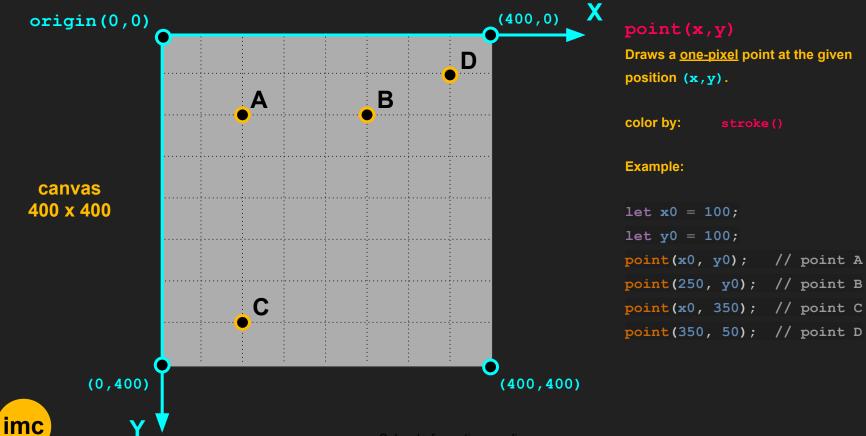
p5.js coordinate system



Position of a POINT on a p5.js canvas is defined by a pair of numbers which we call a coordinate (x, y) x = horizontal distance from the origin y = vertical distance from the origin

The origin (0,0) of a p5.js canvas is at the UPPER LEFT CORNER.

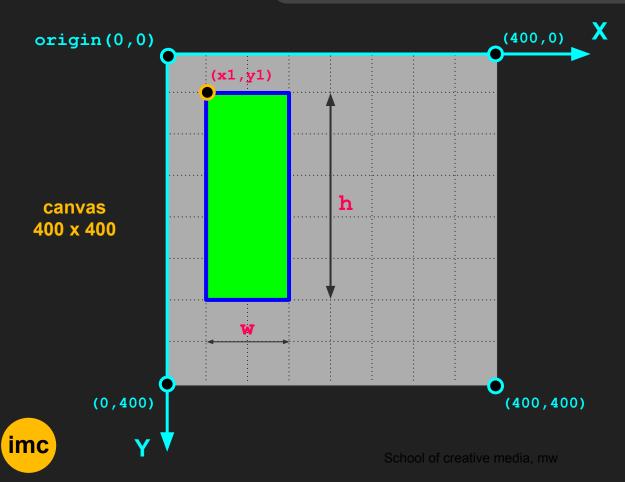
point(x,y);



line(x1,y1,x2,y2);



rect(x1,y1,w,h,[r]);



rect(x1,y1,w,h,[r])

Draws a rectangle defined by a location point* (x1,y1), and the size (w,h) where w = width, and h = height. r is an optional parameter which defines the corner roundness radius in pixel.

location point: upper left corner

outline color by: stroke (

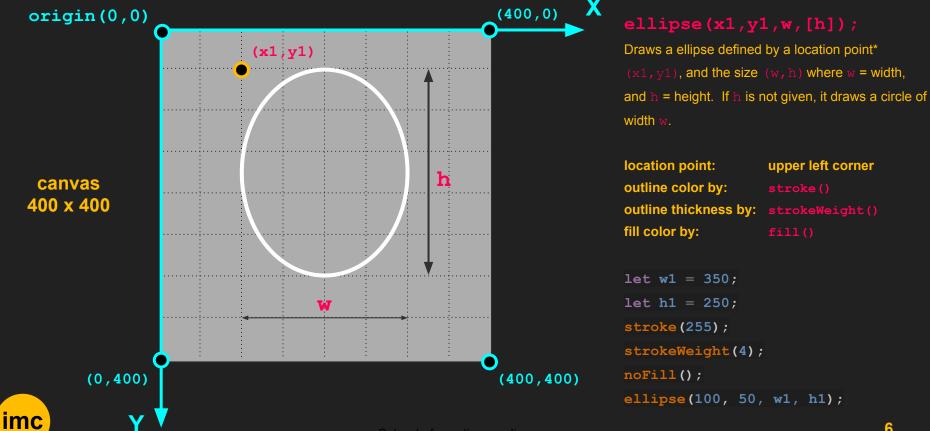
outline thickness by: strokeWeight()

fill color by: fill()

Example:

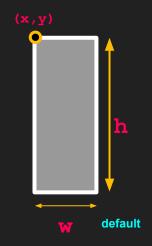
```
let w1 = 100;
let h1 = 250;
stroke(0, 0, 255);
strokeWeight(4);
fill(0, 255, 0);
rect(50, 50, w1, h1);
```

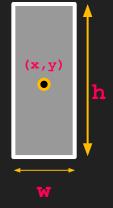
ellipse(x1,y1,w,[h]);

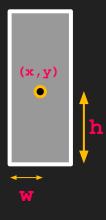


rectMode(<mode>);

Defines how a rectangle shape rect(x, y, w, h) should be drawn.









rectMode(CORNER);
(x,y) rectangle's

upper left corner.

w weight

h height

rectMode (CENTER) ;
(x,y) rectangle's

center.

w weight

h height

rectMode(RADIUS);

(x,y) rectangle's center.

w half-width (radius).

h half-height (radius).

rectMode (CORNERS) ;

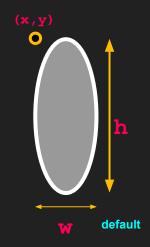
(x,y) rectangle's upper left corner.

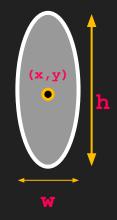
(w,h) rectangle's lower right corner.

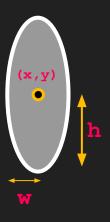


ellipseMode (<mode>);

Defines how a ellipse shape ellipse (x, y, w, h) should be drawn.









ellipseMode(CORNER);

(x,y) ellipse's upper left corner.

- w weight
- **h** height

ellipseMode(CENTER);

(x,y) ellipse's center.

- w weight
- h height

- ellipseMode(RADIUS);
- (x,y) ellipse's center.
- w half-width (radius).
- h half-height (radius).

ellipseMode(CORNERS);

- (x,y) ellipse's upper left corner.
- (w,h) ellipse's lower right

corner.

