

# Processing Functions Cheat Sheet

## Shape functions

```
ellipse(x, y, w, h);  
rect(x, y, w, h);  
line(x1, y1, x2, y2);  
point(x, y);  
rectMode(MODE);  
ellipseMode(MODE);
```

```
beginShape();  
vertex(x, y);  
vertex(x, y);  
endShape(CLOSE);
```

## Color functions

```
fill(r, g, b, a);  
stroke(r, g, b, a);  
noStroke();  
background(r, g, b);
```

## Conditionals

```
if(test){  
  //if true  
}else{  
  //if false  
}
```

## Loops

### For loops

```
for(int x=0;x<width,x=x+1){  
  //do something  
}
```

### While loops

```
int x=0;  
while(x<width){  
  x=x+1;  
}
```

## Extras:

```
map(value, x1, y1, x2, y2);  
dist(x1, y1, x2, y2);  
constrain(constrain(amt, low, high)
```