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PROGRAMMING WITH PROCESSING

What is Processing?

- http://processing.org/
- Language for interaction and visuals
- Java applet/application, JS port
- Get it at <u>processing.org/download/</u>

While we wait...

- Exhibition at <u>processing.org/exhibition/</u>
 - Platonic Solids
 - BallDroppings
- Some demos at <u>openprocessing.org/</u>
 - http://openprocessing.org/visuals/?visualID= 1210

First Steps...

```
void setup() {
    size(800, 600);
    background(128);
    smooth();
}
```

- void draw() {}
- Press control+R
- Escape to quit

Simple Drawing

- ellipse(x, y, diameterX, diameterY);
- line(x1, y1, x2, y2);
- rect(x, y, width, height);
- point(x, y);

Help -> Reference

Simple Colors

```
color(r, g, b); color(r, g, b, alpha);
color(gray); color(gray, alpha);
stroke(color);
noStroke();
fill(color);
noFill();
```

Help -> Reference

Simple Variables

- mouseX, mouseY, pmouseX, pmouseY
- mousePressed, mouseButton
- keyPressed, key, keyCode
- width, height, frameCount

Help -> Reference

Other useful stuff

- millis()
- map(x, inLow, inHigh, outLow, outHigh)
- dist(x1, y1, x2, y2)
- noise(x [, y[, z[, w]]])
- colorMode(HSB or RGB);