Processing

Basic introduction & Imaging



Hello!

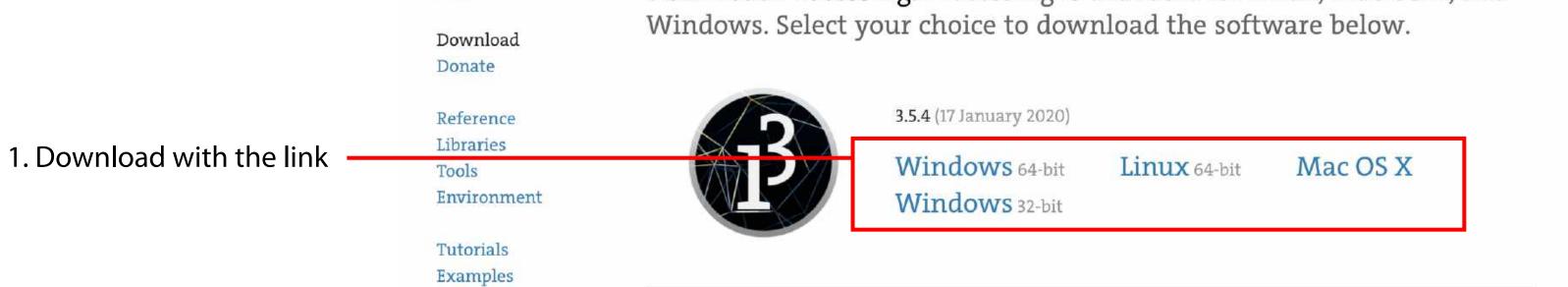
I'm the TA for this class Contact: Bryan Leow 81813134

Tips for the class

- Don't worry if you're new to programming - Programming is a mindset - Free resources are everywhere! - Have fun and keep experimenting!

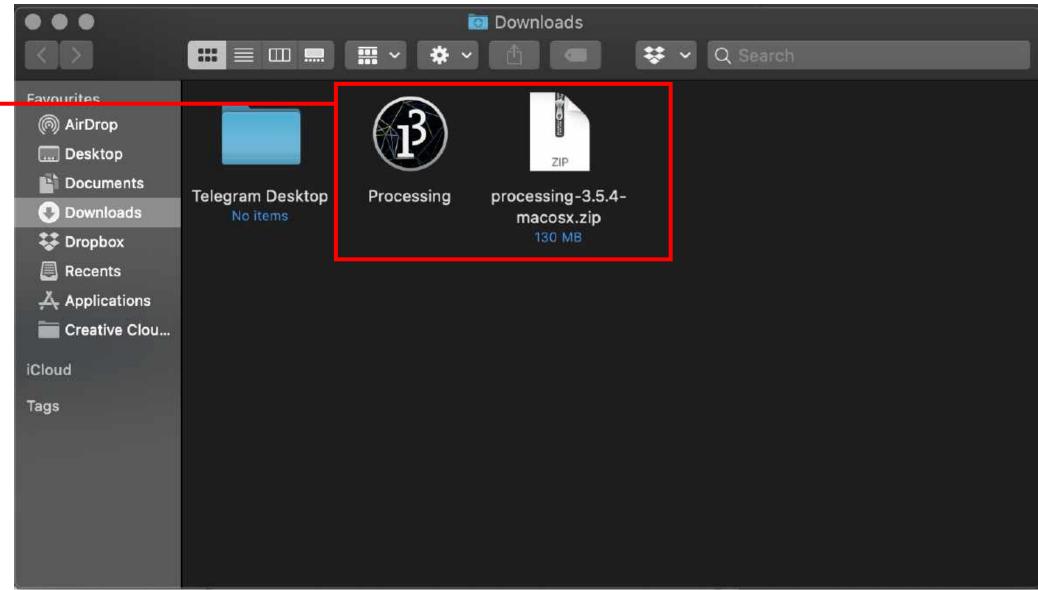
Download Processing

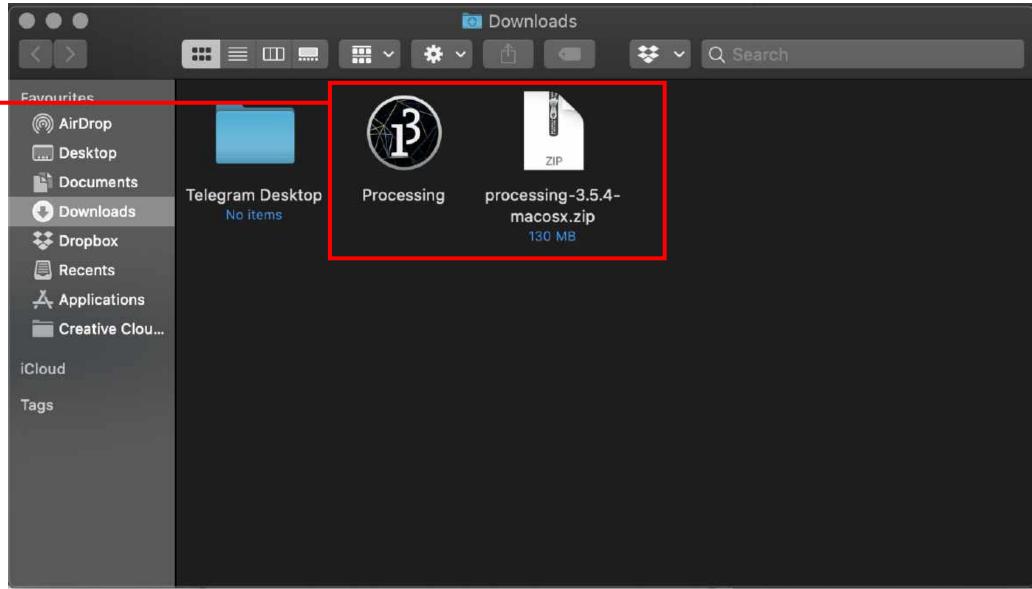
https://processing.org/download/



2. Extract the zipped file to retrieve icon. You can now use processing! You can also drop it in your Applications

Windows users: Same thing, extract and it will be a folder with Processing.exe file





Cover



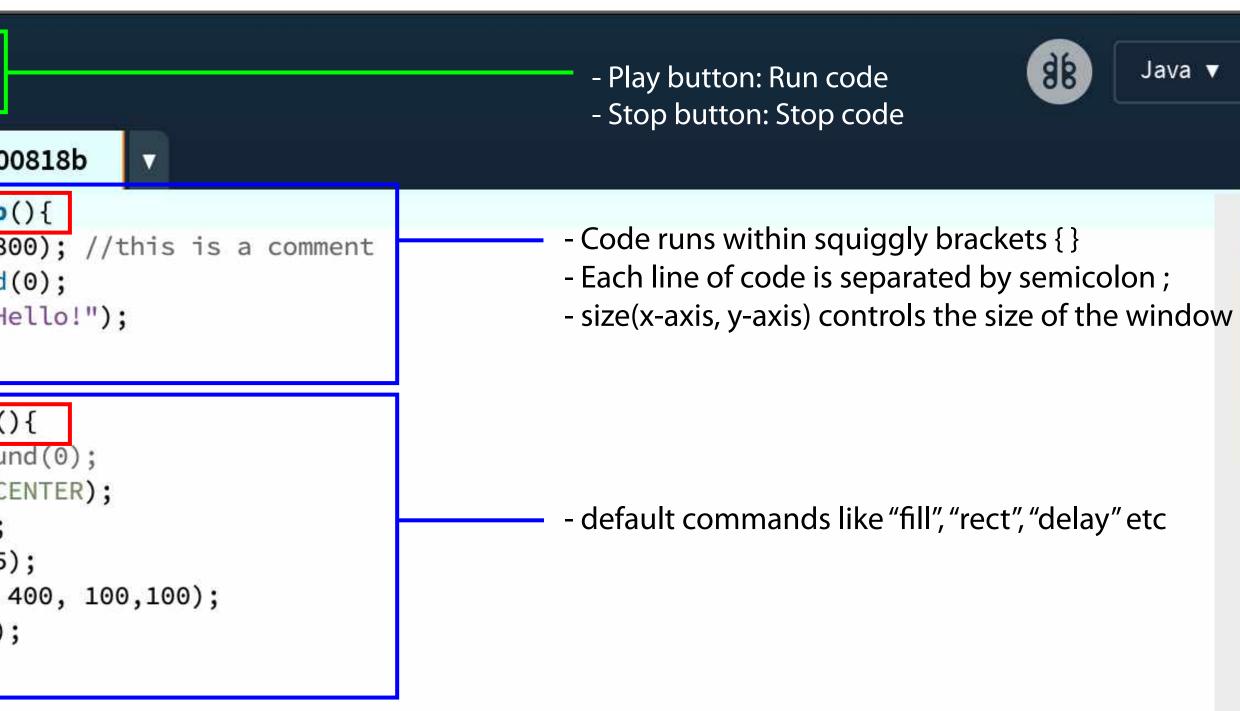
Interface and basics

Sets up the initial conditions, runs only once

Continuously looping after set up is done, forever

println("Hello!") on void setup: the text is only printed once on console VS if it's on void draw

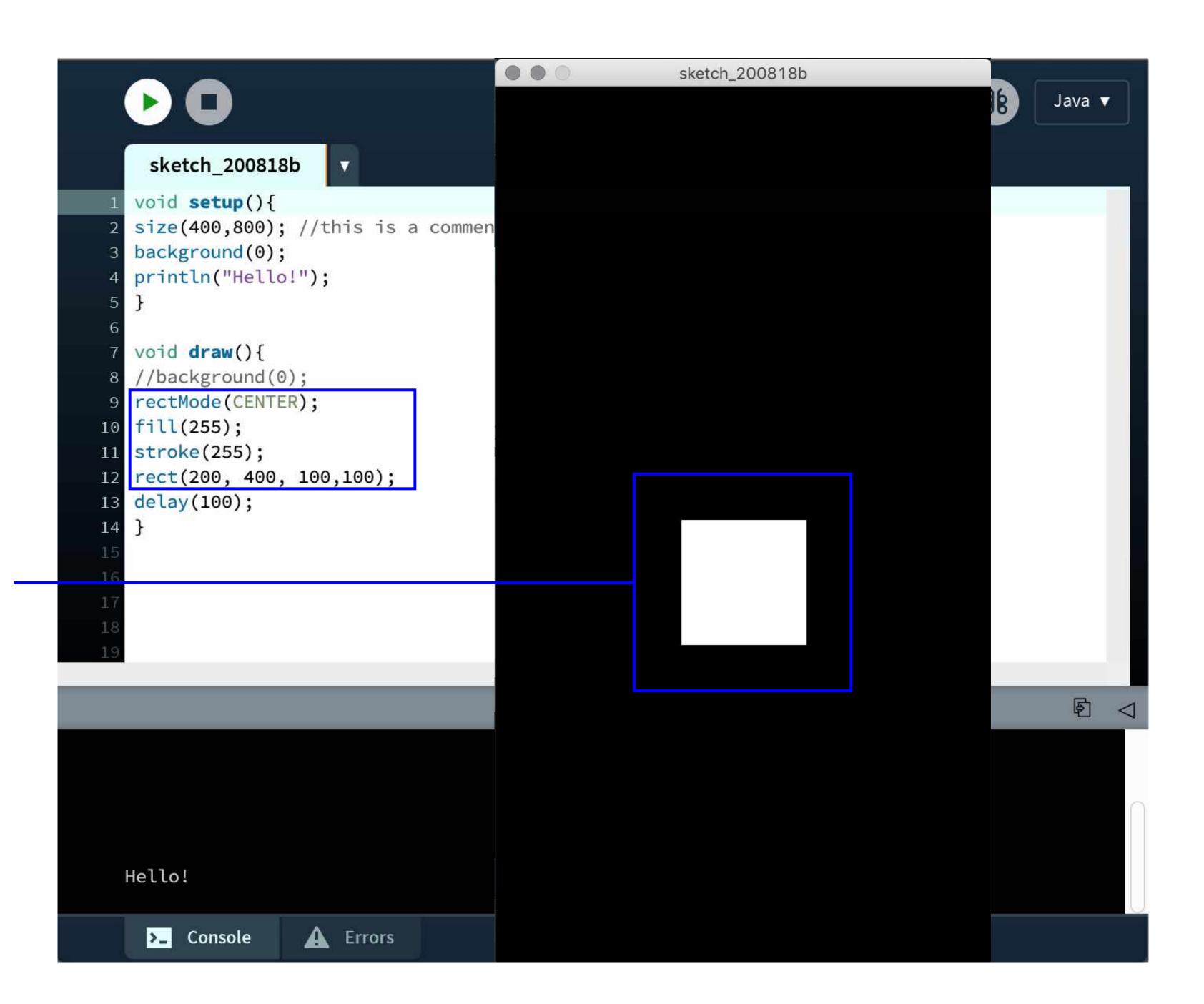
sketch_200
<pre>void setup(size(400,80 background(println("He } </pre>
void draw() <pre> void draw() % //backgroun % rectMode(CE 10 fill(255); 11 stroke(255)</pre>
12 rect(200, 4 13 delay(100); 14 } 15 16
17 18 19
Hello!
<mark>>_</mark> Console



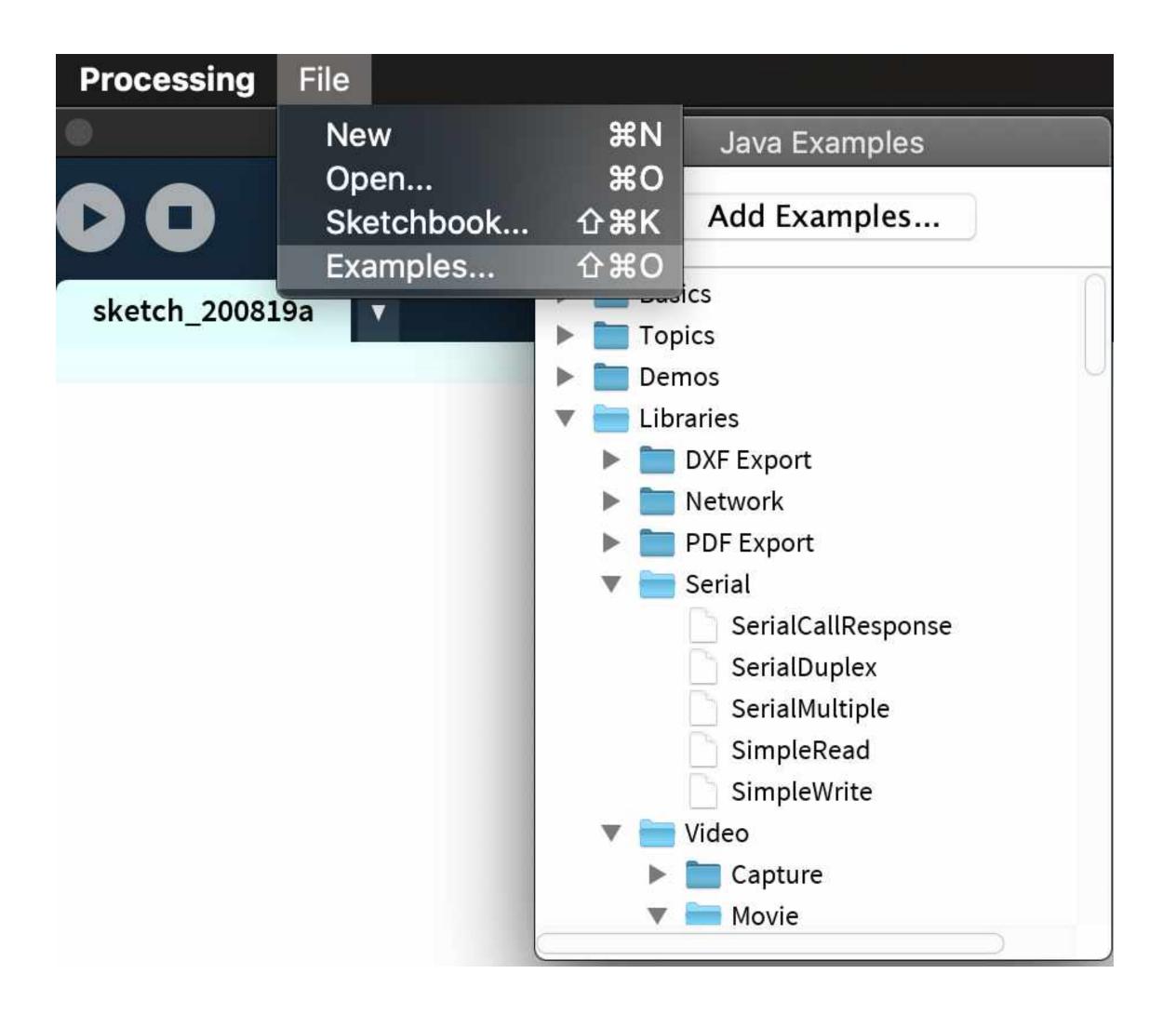


Interface and basics

- white fill and stroke (255)
- Colours: (R,G,B), or greyscale from 0 to 255
- i.e. fill(255,255,255) is white, same with fill(255)
- rectangle's anchor point is in the center
- rectangle is placed in the middle of the window
- rectangle has 100 by 100 pixels dimension



References: Examples



References: Online Resources

https://processing.org/reference/



Cover

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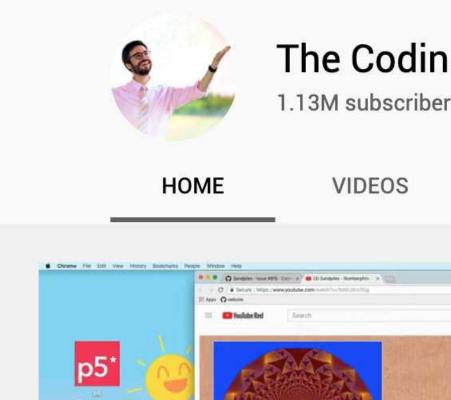
» Medium

Reference. Processing was designed to be a flexible software sketchbook.

Structure	Shape	Color		
() (parentheses)	createShape()	Setting		
, (comma)	loadShape()	background()		
. (dot) PShape		clear()		
/* */ (multiline comment)		colorMode()		
/** */ (doc comment)	2D Primitives	fill()		
// (comment)	arc()	noFill()		
; (semicolon)	circle()	noStroke()		
= (assign)	ellipse()	stroke()		
[] (array access)	line()			
{} (curly braces)	point()	Creating & Reading		
catch	quad()	alpha()		
class	rect()	blue()		
draw()	square()	brightness()		
exit()	triangle()	color()		
extends		green()		
false	Curves	hue()		
final	bezier()	lerpColor()		
implements	bezierDetail()	red()		
import	bezierPoint()	saturation()		
loop()	bezierTangent()			
new	curve()			
noLoop()	curveDetail()	Image		
null	curvePoint()			
pop() curveTangent()		createImage()		
popStyle()	curveTightness()	PImage		
private				
public	2D Drimitizzoa	Loading & Displaying		

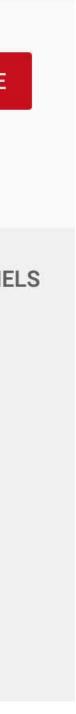
References: Online Resources

https://www.youtube.com/thecodingtrain





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Basic commands and functions on Processing

Let's try some examples

Conditionals1 Keyboard Functions Mouse Signal

Generating graphics and images on Processing

Form: Bezier Image: Pointilism Lights: Directional Math: Double Random Shape: ScaleShape Image Processing: Blending

Let's try some examples

Next week: Videos & Animations

Self enrichment: - Try exploring the examples given by Processing - Watch TheCodingTrain on x1.5 speed

Thanks!

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