Processing Community Day Copenhagen 2020 - p5 workshop - cheatsheet

Workshop github page
github.com/kwichmann/p5workshop
Basic graphics
Canvas createCanvas(width, height) Create background(r, g, b) Background color
Points and lines point(x, y) Point at (x, y) line(x1, y1, x2, y2) . From (x_1, y_1) to (x_2, y_2)
Style of points, lines, and outlines strokeWeight(size)
Geometric shapes rect(x, y, width, height) Rectangle at (x, y) ellipse(x, y, radius). Circle with center (x, y) ellipse(x, y, width, height) Ellipse triangle(x1, y1, x2, y2, x3, y3) Triangle
Style of fill fill(r, g, b) Color noFill() Disable
Color arguments
···(r, g, b) ····· Red, green, and blue, 0-255 ···(brightness) ··· Grayscale: 0 black, 255 white

Alpha: 0 fully transparent, 255 fully opaque ...(r, g, b, a) Red, green, blue with alpha

···(brightness, a) Grayscale with alpha

Comments // Comment Note to self. Is not executed **Built-in variables** width and height Canvas size mouseX and mouseY Current mouse position pmouseX and pmouseY ... Previous mouse position key Last key pressed **Events** function mousePressed() {...} ... Mouse click function keyPressed() {...} . Keyboard input function preload() {...} .. Done before setup Variables and constants let a Declare variable a let b = 5 Declare and assign variable bconst c = $42 \dots Assign constant c$ $d = 3 * a + d \dots$ Reassign value to variable d $n += 3 \dots Add 3$ to variable nm -= 5 Subtract 4 from variable m $x \neq 2$ Multiply variable x by 2 y /= 7 Divide variable y by 7 Random numbers random(max) Between 0 and max random(min, max) Between min and max The console

console.log(x). Write the value of x in console

Conditionals if (a == 4) $\{\ldots\}$ Do if a is exactly 4 if $(b < 60) \{ \ldots \}$ Do if b is less than 60 if $(c > -3) \{ \ldots \}$ Do if c is more than -3 **Else:** Do something else when not true if (condition) {...} else {...} **Images** img = loadImage(path) Assign to variable image(img, x, y) Show image at (x,y)image(img, x, y, height, width) Set size tint(r, g, b) Color images noTint() Undo image coloring imageMode(MODE) Change display mode filter(FILTER) Use image filter Webcam webcam = createCapture(VIDEO) Show cam webcam.hide() Hide cam Sound mp3 = loadSound(path) Assign to variable mp3.play() Play

Created by Kristian Gårdhus Wichmann, 2020

Based on www.latextemplates.com/template/cheatsheet

mp3.stop() Stop

mp3.rate(r) ... Playback speed. 1 is original rate mp3.pan(p) ... p ranges from -1 to 1. 0 is center

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