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

Style of points, lines, and outlines

strokeWeight(size) Size/width stroke(r, g, b) Color noStroke() Disable

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

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

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() {...} Key pressed

Variables and constants

let aDeclare variable alet b = 5Declare and assign variable bconst c = 42Assign constant cd = 3 * a + dReassign value to variable dn += 3Add 3 to variable nm -= 5Subtract 4 from variable mx *= 2Multiply variable x by 2y /= 7Divide variable y by 7i++Add 1 to variable ij++Subtract 1 from variable j

The console

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

Conditionals

if (a == 4) $\{...\}$ Do if a is exactly 4 if (b < 60) $\{...\}$ Do if b is less than 60 if (c > -3) $\{...\}$ 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
mp3.stop() Stop
mp3.rate(r) Set playback rate

Created by Kristian Gårdhus Wichmann, 2020

 $Based\ on\ {\tt www.latextemplates.com/template/cheatsheet}$

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