# DRAWING WITH COD

## BY EDWARD MARTIN

## **USEFUL LINKS**

## FOR THE WORKSHOP

P5.js Website: <u>https://p5js.org/</u>

P5.js Editor: <u>https://editor.p5js.org/</u>

P5.js References: https://p5js.org/reference/

# **TO THE CODE** Pig Code:

https://editor.p5js.org/edwardjmartin/sketches/9PDyg0OZ

*Cat Code:* <u>https://editor.p5js.org/edwardjmartin/sketches/3ulEjcsJ</u>

#### FOR AFTER THE WORKSHOP

P5.js Examples: <u>https://p5js.org/examples/</u> P5.js Tutorial Playlist on Youtube by Daniel Shiffman: https://www.youtube.com/playlist?list=PLRqwX-V7Uu6Zy51Q-

x9tMWIv9cueOFTFA

### MORE INFORMATION

#### **KEY TERMS**

#### -P5.js:

The code editor used throughout the workshop, which allows us to write code in our internet browser.

#### Code Editor:

The programme that we write our code in.

#### Javascript:

The programming language often used when coding webpages on the internet.

#### Syntax:

The words, punctuation and statements we write that have certain rules and meanings associated to them, so that the computer can understand and run our code.

# Function:

A section of our code that performs a specific task; eg. draw a rectangle - rect(x, y, w, h);

#### Parameters:

The information a computer needs to know to run a function; eg. Where and how big we want our rectangle.

#### The 'function setup()':

A default function given by P5 js, where we put the information that the computer only needs to know once. eg. How big we want our canvas to be.

#### The 'function draw()':

The default function given by P5.js where we write the body of our code, because it runs over and overs, and continuously updates multiple times a second.

#### The 'fill()' function:

The function that adds colour to our shapes. We use either the preset colours built into P5.js - eg "pink", or were use the RGB (Red, Green, Blue) system - eg. rgb(250, 130, 20);

#### The 'random()' function:

The function that will give you a random value inside your code. eg. random(0, 100); - it might give me 65 or 3 or 48.

#### Console:

If we accidentally write our code wrong the console tells us that we have an error - what's wrong and which line in our code.