

p5.js

The focus of Week 05 & 06 Studio B classes will be on a JavaScript library called p5.js. It is free and open-source meaning that all the resources and documentation provided on the library are free for anyone to learn creative code. Find out what you can do with it here: <https://p5js.org/reference/>

Below will be some links to some basic functions you will be playing with. You are not required to, but you are more than welcome to extend your knowledge on other interesting functions by looking at the p5.js above link to the reference page.

01. Basic Shapes

Remember, if you don't know what values to input inside the (), scroll down to the bottom half of the page and it will tell you what numbers you need and what the correct syntax to use is!

Line

<https://p5js.org/reference/#/p5/line>

Ellipse

<https://p5js.org/reference/#/p5/ellipse>

Circle

<https://p5js.org/reference/#/p5/circle>

Quad

<https://p5js.org/reference/#/p5/quad>

Rectangle

<https://p5js.org/reference/#/p5/rect>

Square

<https://p5js.org/reference/#/p5/square>

Triangle

<https://p5js.org/reference/#/p5/triangle>

02. Styling

Colours

<https://p5js.org/reference/#/p5/background>

<https://p5js.org/reference/#/p5/fill>

<https://p5js.org/reference/#/p5/noFill>

Strokes

<https://p5js.org/reference/#/p5/stroke>

<https://p5js.org/reference/#/p5/noStroke>

<https://p5js.org/reference/#/p5/strokeWeight>

Moving shapes from a different centre

Note: sometimes the co-ordinates for shapes like `rect()` dictate its position not based from the centre of the shape, but the top left corner. Think of those co-ordinates like an anchor point. If you want to move a `rect()` around based on its centre, then functions like `rectMode(CENTER)`; come in handy! Keep in mind that the default for an ellipse is already at its centre.

<https://p5js.org/reference/#/p5/ellipseMode>

<https://p5js.org/reference/#/p5/rectMode>

03. Video Tutorials



The Coding Train (a.k.a Daniel Shiffman) is a brilliant teacher and major contributor to the Processing Foundation. Here are a few of his videos that go through the basics.

Introduction to p5.js for Beginners

<https://www.youtube.com/watch?v=yPWkPOfnGsw&list=PLRqwx-V7Uu6Zy51Q-x9tMWlv9cueQFTFA&index=2>

Shapes & Drawing

<https://www.youtube.com/watch?v=c3TeLi6Ns1E&list=PLRqwx-V7Uu6Zy51Q-x9tMWlv9cueQFTFA&index=4>

Colour

<https://www.youtube.com/watch?v=rjJTF5-N7c&list=PLRqwx-V7Uu6Zy51Q-x9tMWlv9cueQFTFA&index=5>

Commenting in code

<https://www.youtube.com/watch?v=xJcrPJuem5Q&list=PLRqwx-V7Uu6Zy51Q-x9tMWlv9cueQFTFA&index=7>