Workshop 1 worksheet

1. Hack it robot

* Download hack\_it\_robot.zip and unzip.
* Uncomment each segment of the code to reveal the robot part by part.
  + Try to understand each code segment.
* Change the robot to the new image on the below.

A close up of a sign

Description automatically generated

1. Colour hacking

* Open project Colours.zip
* Configure the fill() colour value to achieve the image.
* Extra challenge:
* Change the background colour of the canvas.
  + [https://p5js.org/reference/#/p5/background](https://p5js.org/reference/)

A picture containing drawing

Description automatically generated

1. Transparency Hacking

* Open project Colours\_Transparency.zip
* Configure the fill() colour value to achieve the image.
* Hint: set the alpha value to 100. Refer to the reference to figure which is the alpha value
* <https://p5js.org/reference/>

Chart, histogram

Description automatically generated

1. Debugging Challenge 1

* Download debugging.zip
* Fix the bugs in debug\_1 to debug\_6
* All sketch should produce the output on the right.
* Get the hint from the JavaScript console

Icon

Description automatically generated

1. Debug Challenge 2

* Open project debugChallengeT2.zip
* When you have finished debugging your sketch, run the program and your canvas should look like the following image, composed of an ellipse outlined by a rectangle.
* Some of the bugs in the code are syntax errors. However, there are also logic errors in the code too. So even when your code is running, you'll need to change it so the canvas looks like the image above.

A picture containing drawing, device

Description automatically generated

1. Hack it Robot parade.

* Download hack\_it\_robot\_2.zip
* Draw and paint the three robots creatively.
  + Similar to http://www.bearbrick.com/
* Share your work in Discussion Prompt

A picture containing drawing

Description automatically generated