

Python programming 3

We are using 2 platforms for this:

code club

<https://projects.raspberrypi.org/en/pathways/python-intro>

And trinket

<https://trinket.io/>

To set yourself up, open both of these websites in separate browser tabs.

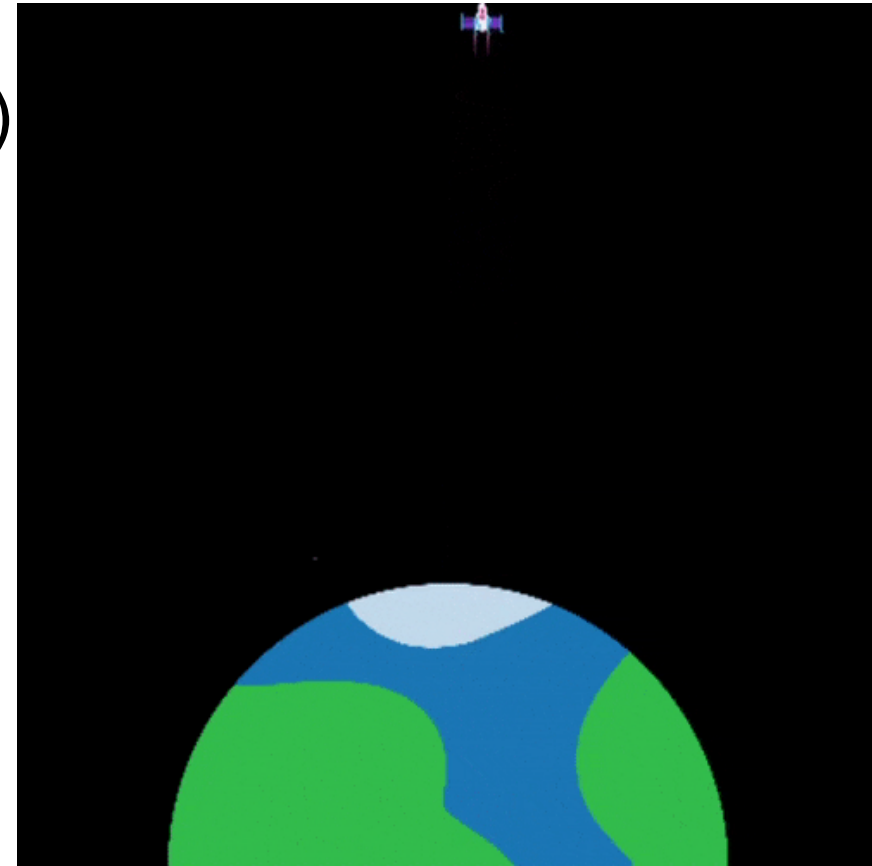
Create an account for yourself in each, and be sure to remember the password.

If you haven't done week 1, first have a go at that.

Then have a go at week 2 (target practice)

And finally... move on to this week's:

ROCKET LAUNCH



CHALLENGE ONE

Getting started

BRONZE:

Follow the instructions to draw your planet and get the rocket so it takes off and flies off the screen.

Once you've done this, share with a robot club helper who can confirm you have Bronze before continuing.

CHALLENGE ONE

It's exhausting

SILVER :

Complete the section “Exhaust effects”

Share your project again

CHALLENGE ONE

Burn baby burn!

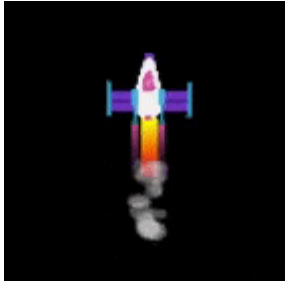
GOLD :

Complete “Burn Fuel”, “Reaching orbit”, and then the quiz.

Well done, you’ve done the basics... now to take it further!

CHALLENGE TWO

Going further: pick an extra activity or two



- Can you make the smoke animation more realistic by having more or fewer transparent circles? What do circles of different sizes look like?
- Can you make the rocket blast change colour as it runs out of fuel?
- Let the user set the rate at which the rocket burns fuel, or how far the rocket flies in each frame.
- Add a second, higher, orbit for the rocket to reach and drop off another satellite. Have it change colour again when it gets there.
- Add you own rocket or planet image to use in your project.