

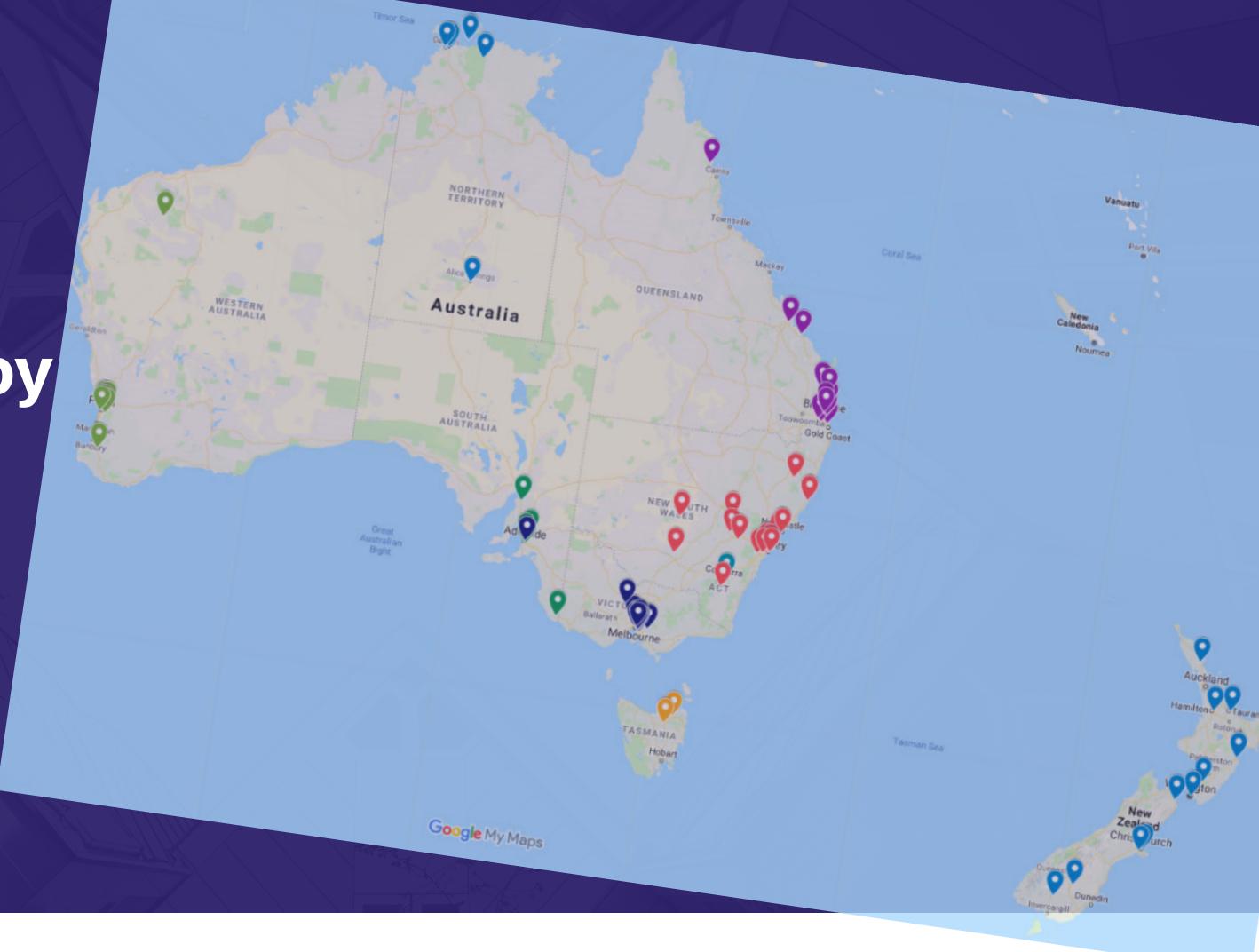
## New coding resources

Martin Richards, Content Manager, ESA Jason Vearing, QSITE (Gold Coast Chapter)

```
high = 100
Value = 47
   mid = (low + high) /
   If mid > value Then
      high = mid - 1
  Else If mid < value)
     low = mid + 7
  End If
"hile (mid != value)
```

#### WELCOME

Registered participants by location



# WHO ARE THE RESOURCES FOR?

#### LEARN SOME FUNDAMENTAL PROGRAMMING SKILLS

Assist their students and understand the process

#### WANT SOME SUPPORTED AND STRUCTURED PROGRAMMING TASKS

Build student confidence and success

#### TRANSITION FROM A VISUAL PROGRAMMING LANGUAGE TO A TEXT BASED LANGUAGE

Use JavaScript or Python

#### OFFER SOME FUNDAMENTAL PROGRAMMING SKILLS IN SCRATCH

Assist their primary students to learn skills that may not be covered through exploration

## A structured approach to teaching programming

### DECOMPOSE THE PROBLEM

## BUILD THE PROGRAM

#### TINKER TASK

#### CHALLENGE

Intro the task
Use computational
thinking to create a
flow chart or
pseudocode

Use video tutorial

Solution code to trace errors.

Small modifications to the program.

Remix

Writing or modifying their own programs.

Use the skills covered for a similar but different purpose

PRIMM: A structured approach to teaching programming

https://blogs.kcl.ac.uk/cser/2017/09/01/primm-a-structured-approach-to-teaching-programming/



### Coding resources webinar

Jason Vearing

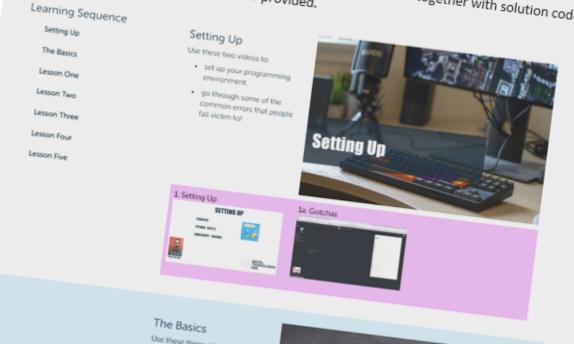
#### VISUAL TO TEXT CODING INDEX PAGE

This index page provides a one-page view of the course which is to help students transition from a visual programming language to a General Purpose Programming language.

It can also be used to learn fundamental programming skills and apply these to visual programming. Each video provides guidance in Scratch, Python and JavaScript.

There are five lessons published so far. A further 3 lessons are to be added over the next few weeks.

Lessons include video tutorials, tasks to build simple applications together with solution codes to



learn how to store, concatenate and output



#### HANDOUT 1

Link to index page