

Lesson 1: Giving instructions

Year 2 – Robot algorithms

Lesson 1: Giving instructions

To describe a series of instructions as a sequence

- I can follow instructions given by someone else
- I can choose a series of words that can be enacted as a sequence
- I can give clear and unambiguous instructions

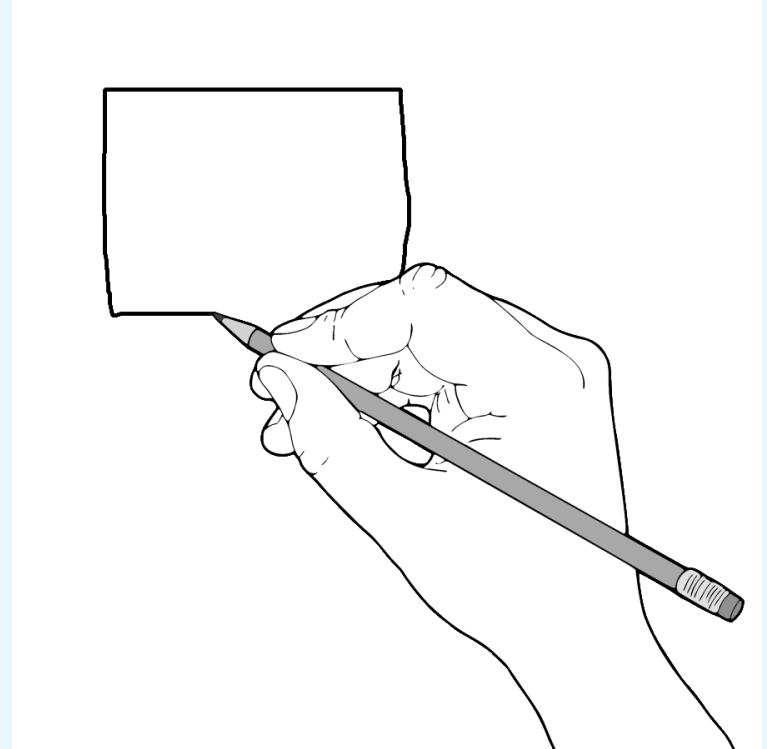
How do we get computers to do what we want?

Think, pair, share.



Following instructions

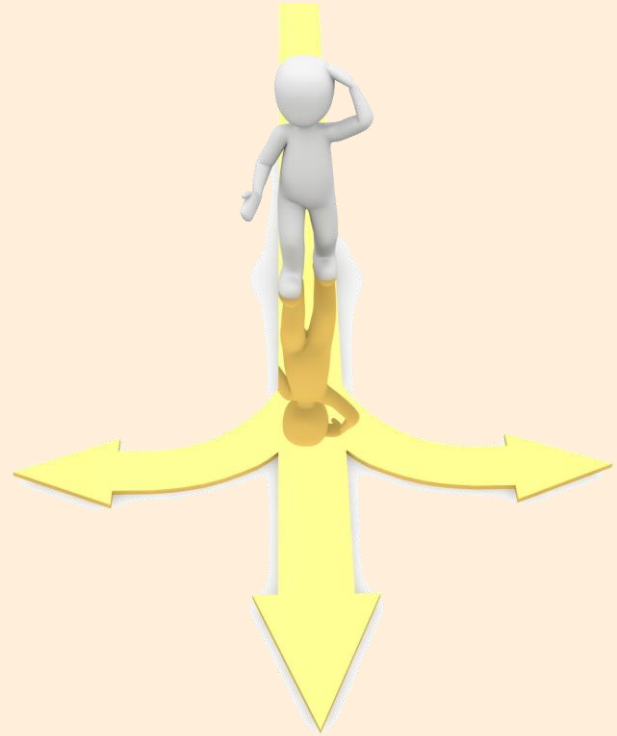
Listen carefully and follow the instructions that you are given.



Words of instruction

Shortly, your partner will pretend to be a robot. You need to give the robot instructions to move around the room. Only you can talk. The robots can't talk, they just have to follow the instructions that they're given.

Write down some clear and precise instructions that could be used.

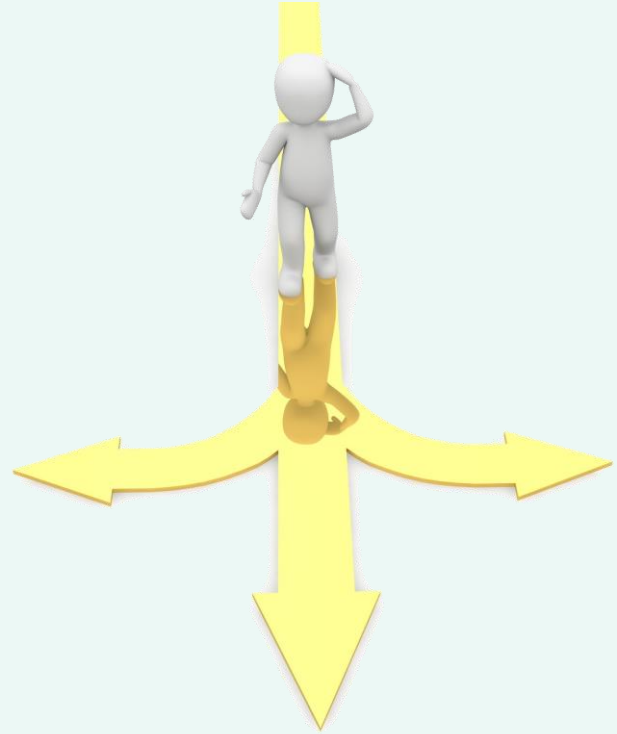


Giving instructions

You need to direct the robots around the room.

Try doing this using some of the instructions from the class list.

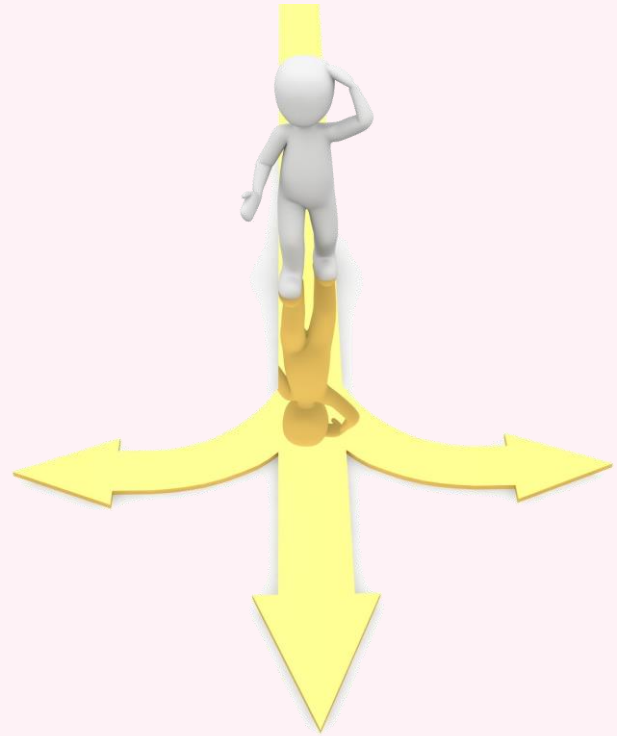
At first, try doing this by giving just one instruction at a time.



Giving a set of instructions

You need to direct the robots around, but this time, you need to give them two or three instructions at a time.

Say “Go” to tell the robot to run the instructions.



Robots follow instructions

Robots have a computer inside.
Robots do what we want because they follow instructions. They don't make any choices themselves.

How do you give a robot instructions?



How confident are you? (1-3)

- I can follow instructions given by someone else
- I can choose a series of words that can be enacted as a sequence
- I can give clear and unambiguous instructions

3 - Very confident



2 - Unsure



1 - Not confident



Next lesson

In this lesson, you...

Gave and followed instructions

Thought about the need for instructions to be clear and precise

Gave your robot a set of instructions to follow

Next lesson, you will...

Create several different algorithms using the same commands in different orders

Test your algorithms on floor robots