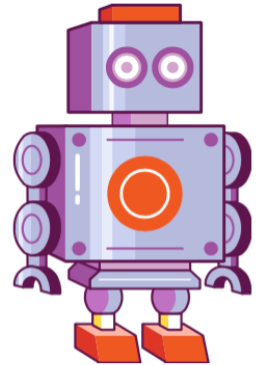




## Robot follows orders

Register/login at <https://scratch.mit.edu>

Remember to write down your password.



*Order the robot to move up, down, left, right*

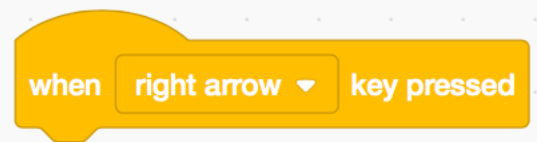
1) Create a New Project

2) Select a Sprite and Choose a robot costume

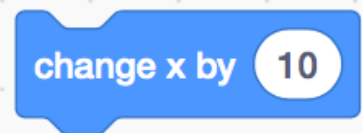
3) Add an event block,

**when ... key pressed.**

Select **right arrow** to move right.



4) Choose a motion, **change x**, and add it to the block above.



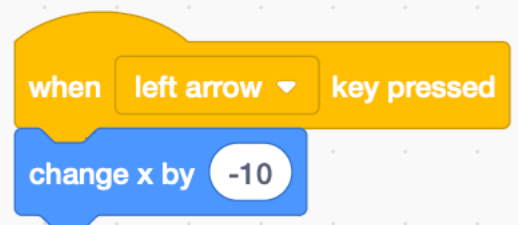
***Try pressing the right arrow***

*Horizontal position is the **x axis**,  
**change x** to move horizontally.*

5) Add another event block,

**when ... key pressed.**

Select **left arrow** to move left.



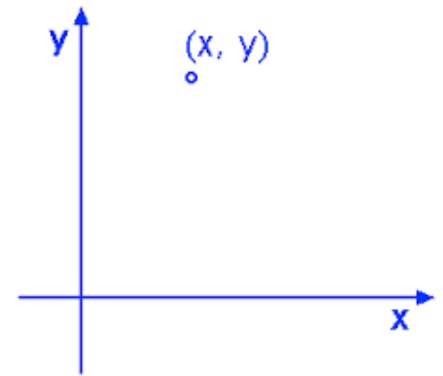
6) Add a **change x** block and change the number to **-10**.

**Try pressing the left arrow.**

Increasing  $x$  moves the robot right, decreasing it makes it move left.

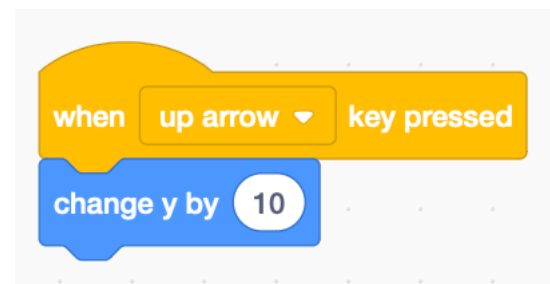
Can the robot move up and down?

Vertical position is the **y axis**. Move the robot up and down by changing  $y$ .

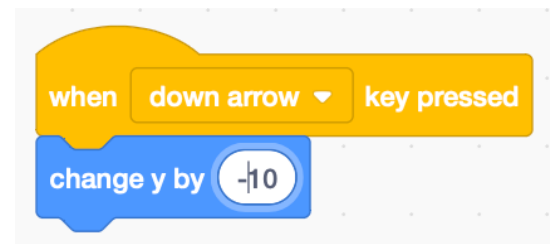


7) Add another **When ... key pressed** event and select **up arrow**.

8) Add **change y by 10**.



9) Finally, we can move down by subtracting 10.



Where is the **origin**, position 0,0?

You can drag the sprite about and check its  $x, y$  coordinates to find it.

**Save** your code with a good name. **File > Save now**