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LEGO Bowling Top Tips

The programmable robotics kits, the LEGO mindstorm NXTs can be used to create lots of different projects. The NXT is the brain of the mindstorm, where the programs are uploaded and once run it tells components such as motors and sensors what to do.

Programs can be written using the NXT software, a drag and drop programming environment enabling users to easily build their code, save and upload onto the built robotics kits. To see more about the various versions available to buy, follow the following link to the LEGO website:

www.lego.com/en-gb/mindstorms/?domainredir=mindstorms.lego.com

The aim of the workshop is to build a robot that will race forward until it detects RED, then it will need to reverse back up the Bowling Alley until it detects the colour green which is the original starting position where it should then stop:

i.t.wales www.itwales.com
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Ewrop & Chymru: Buddsoddi yn eich dyfodol
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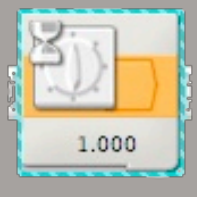
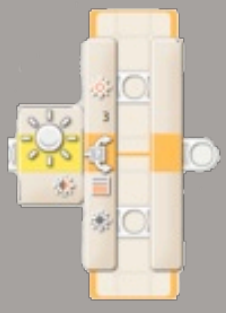
Different types of Programming Blocks

Block	Description
Movement 	The options on this block allow you to: - Select which ports the motors are connected to - Direction and duration you want to travel - Steering direction - Power of the motors - Motors to brake or coast after moving
Wait 	The options on this block allow you to: - Select which type of control you want to use - Decide how long to wait for in seconds
Loop 	The options on this block allow you to: - Select which type of control you want to use - Decide when to break the loop - Choose from the individual options for each of the different control types
Switch 	The options on this block allow you to: - Select which type of control you want to use - Decide which path to take - Choose from the individual options for each of the different control types.

Don't forget to send us examples of your projects!
We may even feature them on our website or Facebook Page!

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