mBlock - MAC

1. Connect via usb and upgrade firmware
2. Turn on the bluetooth in system preferences - pair with mBlock
3. Go to mBlock, click on Connect - choose your paired mBlock

<http://forum.makeblock.com/t/bluetooth-connectivity-on-mac-not-working/1464>

<http://www.newinnovators.ca/index.php/mbot>

<https://www.digitaltechnologieshub.edu.au/docs/default-source/default-document-library/robotsinthe2016australianclassroomv0-95.pdf?sfvrsn=0>

<http://mrkalmes.weebly.com/uploads/2/2/0/1/22013084/mbot_lesson_12.pdf>

<http://learn.makeblock.com/en/robot-kits/mbot/downloading-mblock-installing-drivers-and-connecting/>

<http://learn.makeblock.com/en/robot-kits/mbot/connecting-by-usb-bluetooth-or-2-4ghz/>

<http://learn.makeblock.com/en/robot-kits/mbot/run-from-mblock-ide-or-upload-to-board/>

<https://www.dropbox.com/s/3v2w8wnym9aubnf/Scratch%202.0%20The%20Adventures%20of%20Mike.pdf?dl=0>

<http://web.eng.fiu.edu/~arellano/1002/mblock/m-block.pdf>

<http://www.robotshop.com/media/files/pdf/mBot-instruction.pdf>

<https://www.brilliantlabs.ca/mbot-intro>

<http://www.smartschoolsystems.com/downloads/Activities_with_mBot___PC_and_Mac.pdf>

<http://www.smartschoolsystems.com/downloads/Activities_with_mBot___iPad.pdf>

Line following

<http://robotshop.com/letsmakerobots/mbot-robot-kit-3rd-part-review-programming-robot>

Ultimate kit

<https://github.com/Makeblock-official/Assembly-Instructions>

<http://downloads.monoprice.com/files/manuals/13961_Manual_150228.pdf>

<http://www.robotshop.com/media/files/pdf/instructions-sheet-90024.pdf>

1. Write a control program that uses the arrow keys on your keyboard to drive the mBot. Then, modify your program to be able to adjust the mBot’s speed.  
   Write a program that uses the Ultrasonic sensor to detect when something is in front of the mBot. What is the maximum distance that can be detected? The minimum? Have the mBot indicate distance either by using LED brightness or speaker tones.  
   Write a program that uses the line follower sensor to play music or tones.  
   Write a program that uses the IR sensor to do the following:  
   Button 1 operates the LEDs.  
   Button 2 plays a song.  
   Button 3 makes the robot dance.  
   Button 4 makes the robot spin around twice and then move forward until it detects an obstacle, then it stops.

Mbot challenges https://www.scribd.com/document/346303020/mbot-challenges

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