Bootcamps for Emerging Technologies and essential Skills

BEILES Discover Technologies, expand opportunities!

Robotics and Al





TINKERCAD - ARDUINO



Class code:

1.Goto

https://www.tinkercad.com/joinclass

2. Enter the class code:

Or the url:

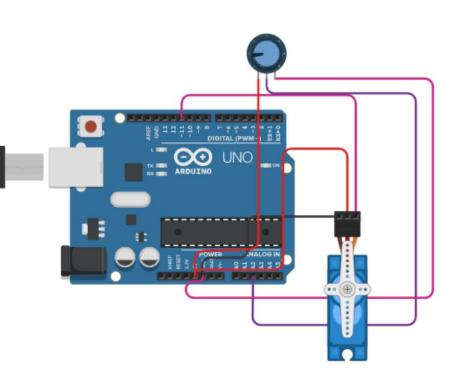
https://www.tinkercad.com/joinclass/74U55LJMF

74U 55L JMF

Rotate servo motor with potentiometer



- Start simulation
 - Rotate the potentiometer
- Check the code
 - SERVO 13 (DIGITAL)
 - POTENTIOMETER A2 (ANALOGUE)
- Change the code
 - Map value (45, 90, 360)



M.A.R.K robot

Make A Robot Kit, aka M.A.R.K is a versatile intelligent robotic platform designed for learning about Artificial Intelligence by implementing lane following, traffic sign identification, and other computer vision functions to put together a self-driving car.





M.A.R.K robot

Go to:

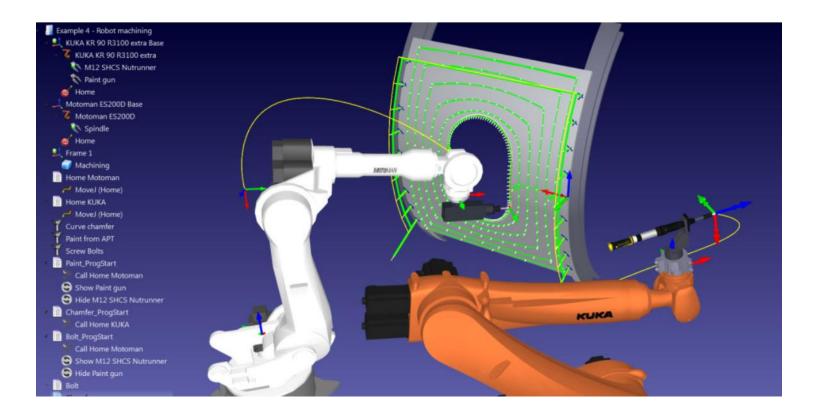
www.ide.tinkergen.com

And code using visual programming language!



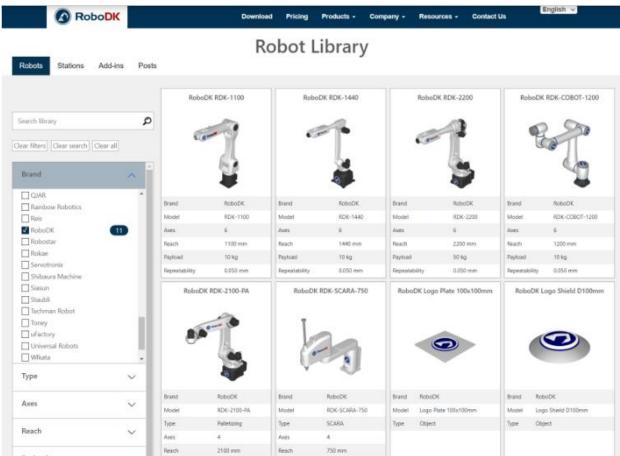


Offline programming and simulation software for industrial robots.



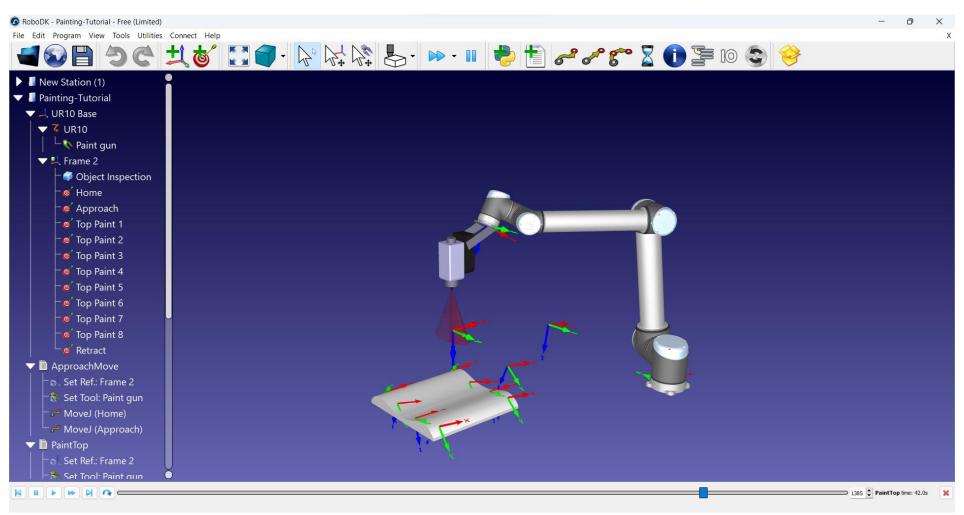


- offers a collection of robots, examples, tools, external axes, add-ins and post processors
- find and download your robots, look for examples, install addins or learn more about how to configure your post processor to generate program for your controllers.





RoboDK – Paint Robot

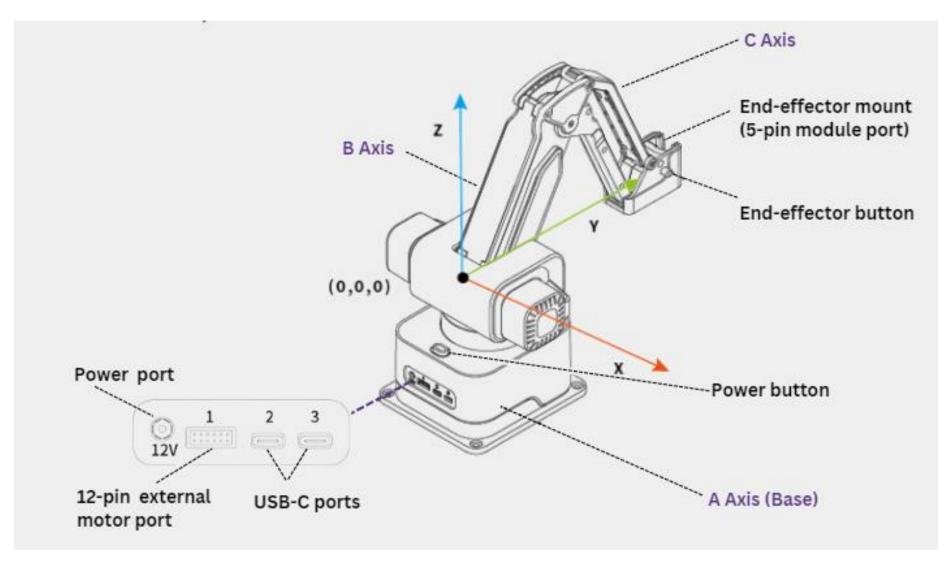


DexARM

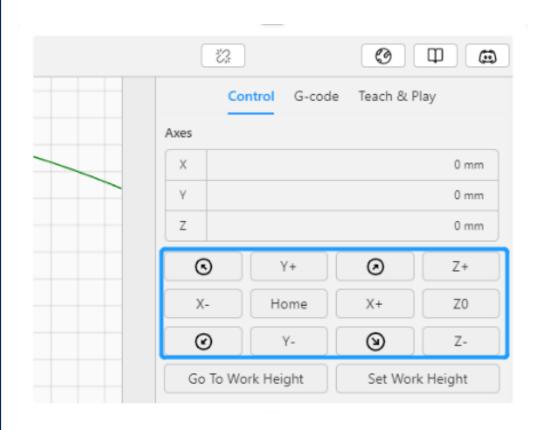
- Multifunctional and multinodular robotic arm
- 4 DOF
- Modules and accessories:
 - 3D Printing Module and Kit
 - Laser Engraving Module and Kit
 - Rotary Soft Gripper Module
 - Rotary Suction Cup Module
 - Pen Holder Module
 - 3.5-inch Touchscreen
 - Al camera

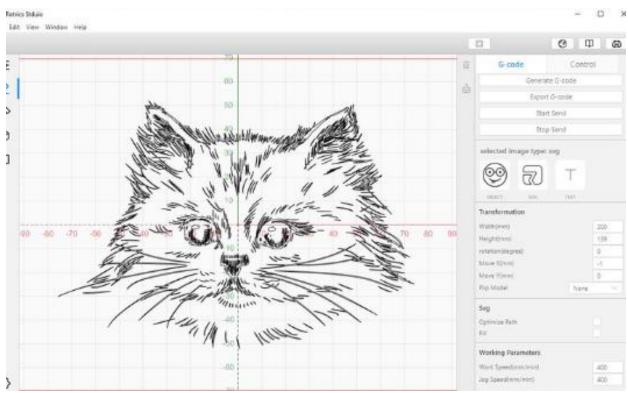


DexARM

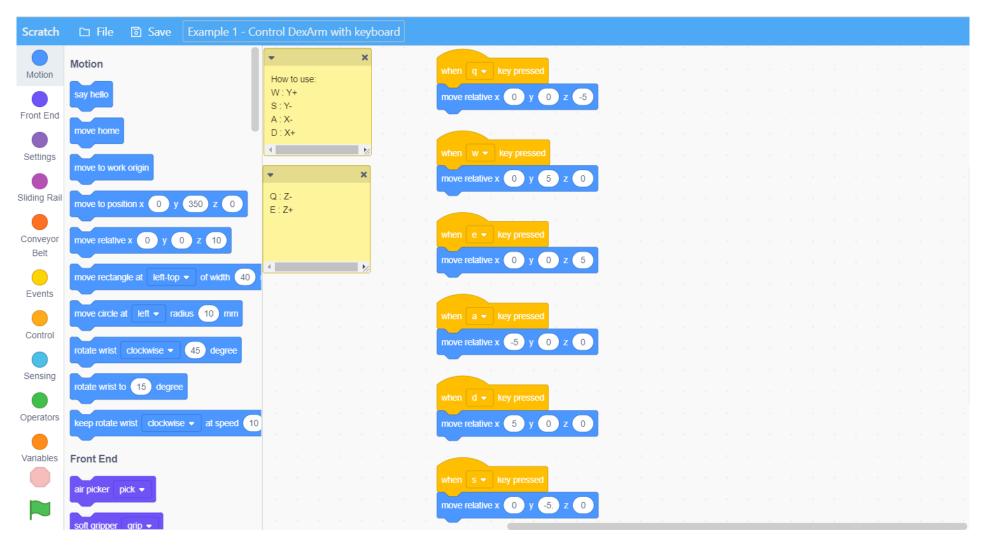


DexARM – Rotrics Studio

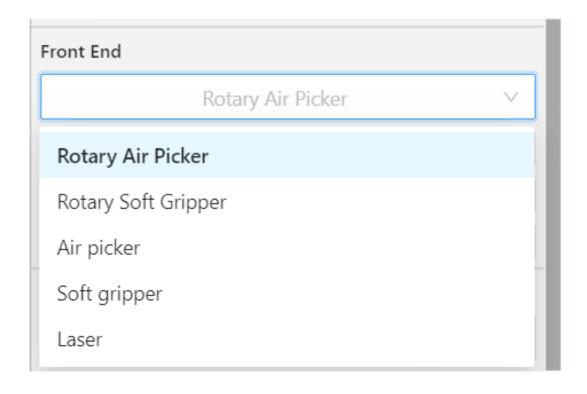




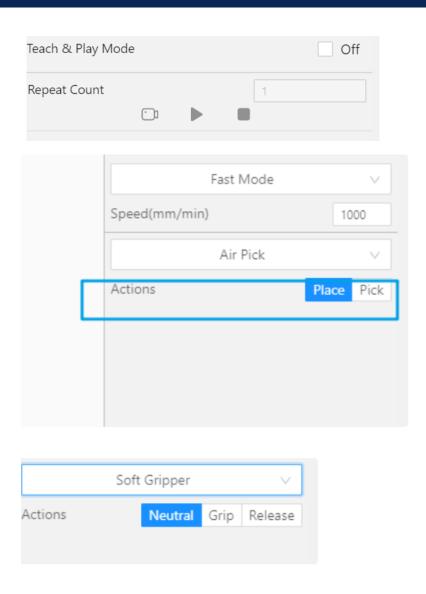
DexARM – Rotrics Studio



DexARM – Teach and Play

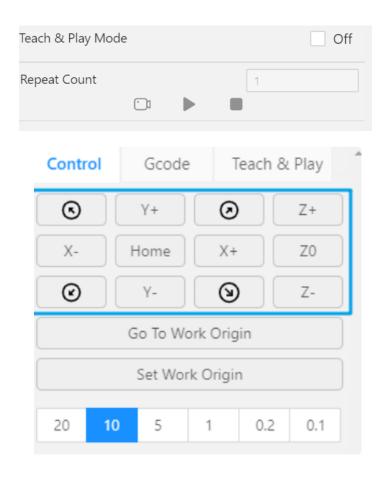


Step 1: Choose the end-effector



Step 2: Control pneumatic actions

DexARM – Teach and Play



STEP 4: REPEAT STEPS 2-3
STEP 5: PLAY

Step 3: Move object



Thank you!



For more information:

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