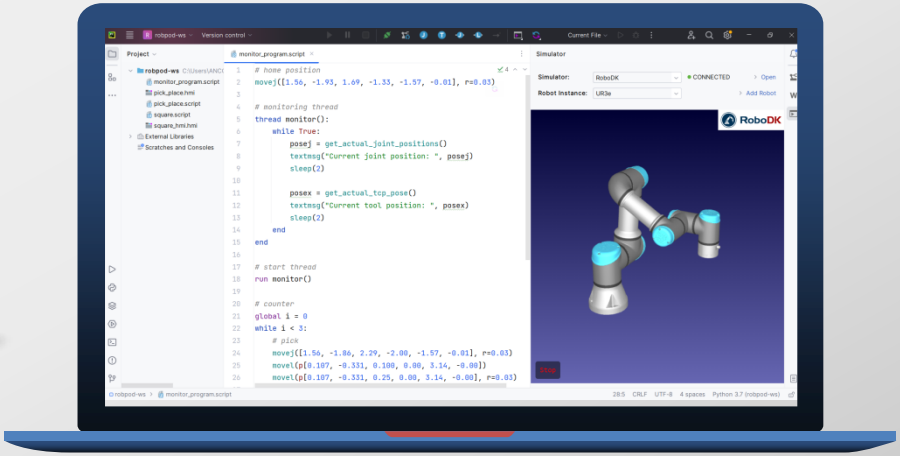
ROBPOD STUDIO

Robpod studio is an integrated development environment for collaborative robotics applications based on PyCharm platform.

FEATURES:

- Advanced Scripting
- File Transfer & Programs Synchronization
- Off-line Simulation and Programming
- HMI Designer
- AI CoWorker





Robpod studio makes **Universal Robots** scripting fast, easy and flexible.

ROBPOD STUDIO

Advanced Scripting

Robpod Studio can **autocomplete** your script with live robot positions while you are coding.

robpod-ws Version control Current File

square.script

```
1  # UR Square Script
2
3  p1 = [1.57, -1.95, 1.96, -1.48, -1.54, 1.61]
4  p2 = p[0.113, -0.343, 0.160, -2.23, -2.14, -0.14]
5  p3 = p[0.111, -0.520, 0.163, -2.27, -2.17, -0.07]
6  p4 = p[0.101, -0.529, 0.461, -2.27, -2.17, -0.07]
7
8  def do_square():
9      i = 0
10     home = mo
11     whil
12
13
14
15
16
17
18     end
19 end
20
21
22
```

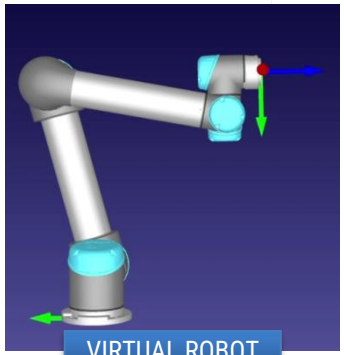
```
MoveJ([-1.60, -1.73, -2.20, -0.81, 1.60, -0.03])   Robot
MoveL(p[-0.190, -0.610, 0.261, -0.00, 3.12, 0.04…  Robot
MoveJ([0.00, -1.57, -1.57, 0.00, 1.57, 0.00])      Simulator
MoveL(p[0.305, -0.131, 0.481, -1.21, 1.21, -…      Simulator
movel(pose, a, v, t, r)
movec(pose_via, pose_to, a, v, r, mode)
modbus_add_signal(IP, slave_number, signal_address, si…
modbus_delete_signal(signal_name)
modbus_get_signal_status(signal_name, is_secondary_pro…
modbus_send_custom_command(IP, slave_number, function_…
modbus_set_digital_input_action(signal_name, action)
```

Ctrl+Giù and Ctrl+Su… will move caret down and up in the editor Next Tip

LIVE AUTOCOMPLETION



REAL ROBOT



VIRTUAL ROBOT

robpod-ws › square.script 10:14 CRLF UTF-8 4 spaces Python 3.7 (robpod-ws)

ROBPOD STUDIO

File Transfer & Programs Synchronization

Robpod Studio helps you to **manage and transfer** program files between your PC and robot controller.

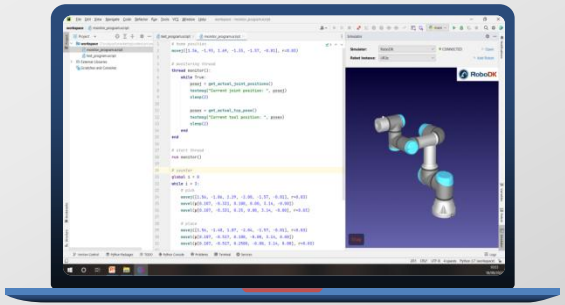


ROBOT

DOWNLOAD files from robot and creates backups.

SYNCHRONIZE multiple files to deploy a whole project on the robot

UPLOAD and transfer files on robot controller.

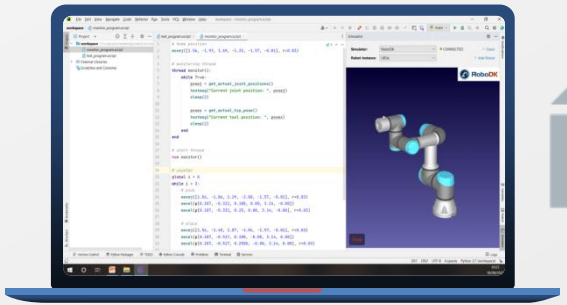


PC

ROBPOD STUDIO

Simulation & Off-line programming

The same script you develop for the real robot can be tested on the **simulator**, without any change or post-processing.



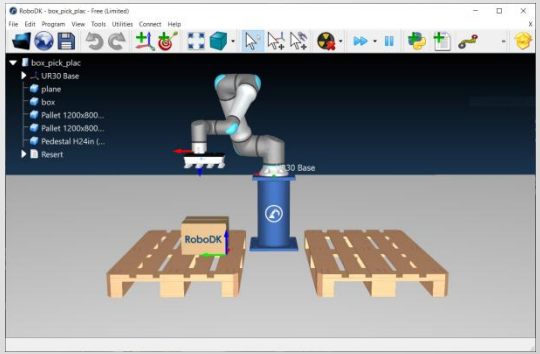
PC

EXECUTE

SIMULATE



ROBOT



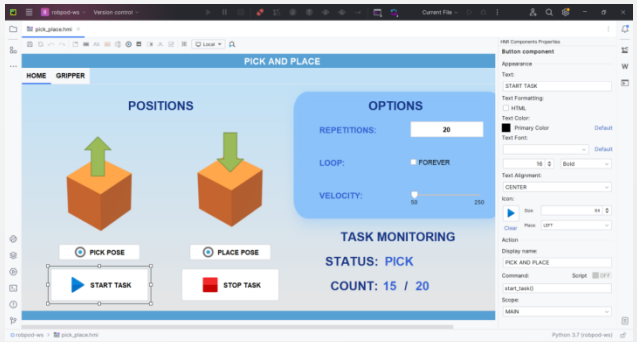
SIMULATOR

ROBPOD STUDIO

HMI Designer

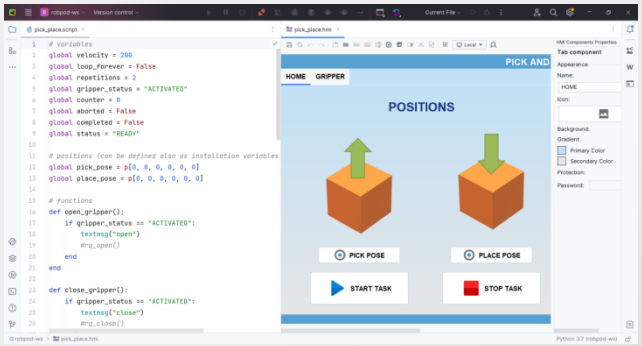
Develop truly collaborative robotics applications with **customized HMI** panels seamlessly integrated with running robot programs.

DESIGN,



Drag and drop UI components to design your custom HMI panel.

LINK,



Link UI components to robot program variables and functions.

RUN!



ROBOT

Deploy the HMI on robot teach pendant or view it remotely.

Robpod HMI Viewer

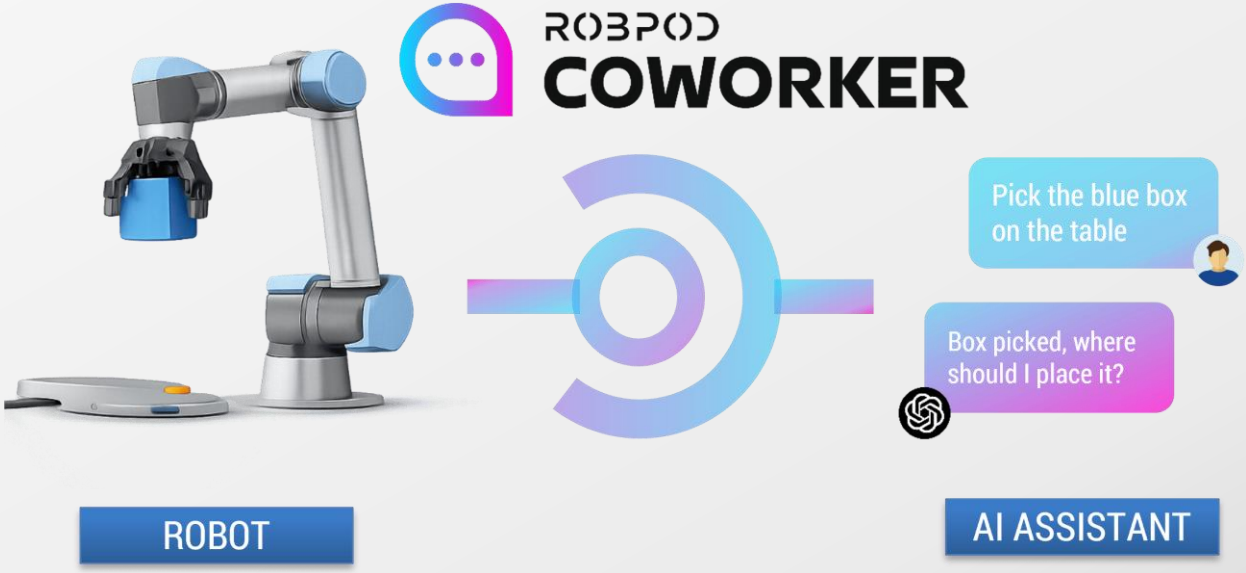


PC

ROBPOD STUDIO

AI CoWorker

Robpod AI CoWorker turns collaborative robots into **AI agents**.



Use your preferred AI assistant to **chat with your cobot**, assign tasks, and monitor operations in real time.

Build custom AI projects with Robpod Studio and design how robots interact with users.

Can be used with any AI chat assistant compliant with MCP protocol.

ChatGPT · Claude · MISTRAL AI_ · LM Studio



ROBPOD

COGNITION CONNECTION COLLABORATION

www.robpod.cloud