Installing Peter Corke's RVC Toolbox

1.1. Installation

1. Go to https://petercorke.com/toolboxes/robotics-toolbox/
2. From under the "Install from shared MATLAB Drive Folder" select "RVC 2nd edition: RTB10+MVTB4 (2017)"

Install from shared MATLAB Drive folder

This will work for MATLAB Online or MATLAB Desktop provided you have **MATLAB drive** setup.

Note that this includes the Machine Vision Toolbox (MVTB) as well.

1. Click on the appropriate link below and an invitation to share will be emailed to the address associated with your MATLAB account:
   - **RVC 1st edition: RTB9+MVTB3 (2011)**
   - **RVC 2nd edition: RTB10+MVTB4 (2017)**
2. Accept the invitation.
3. A folder named RVC1 or RVC2 will appear in your MATLAB drive
4. Using the MATLAB file browser to navigate to the folder RVCx/rvctools and double-click the script named startup_rvc.m

Note that this is a combo-installation that includes the Machine Vision Toolbox (MVTB) as well.

3. Login with your MATLAB credentials
4. Select "Download Shared Folder" and extract it once downloaded.

Sharing Preview

+ Add to my Files ▾   ⬗ Share Link   ⬇ Download Shared Folder

RVC2-copy

Name	▲	Size	Date Modified
▸ 🗀 rvctools			18/05/2020 08:56 PM

» 🗀 **RVC2-copy**

Owned By: Peter Corke

Access Type: Can View ℹ️

Created On: Sun Mar 08 2020

Modified On: Sun Jul 07 2019

Folder Size: 21.6 MB

1.2. Move rvctools toolbox to correct location: **Windows**

1. Find the 'rvctools' folder from inside the extracted folder
2. Copy and paste it where MATLAB has been installed. On windows this may be "C:\Program Files\MATLAB\R2021b\toolbox".
3. Open MATLAB
4. Go to **Section 1.4**

Note: You can have a look at this instruction video tutorial for Windows: Installation, that goes through the installation.
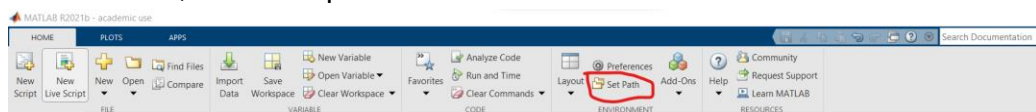
1.3. Move rvctools toolbox to correct location**: OSX**

1. Go to Applications
2. Right click on MATLAB and select "Show Package Contents".
3. Open the "Toolbox" folder
4. In another file explorer window, find the 'rvctools' folder from inside the extracted folder
5. Copy the "rvctools" folder that you have downloaded into the "Toolbox" folder.
6. Now that the "rvctools" folder is inside the "Toolbox" folder, right click on the "rvctools" folder and select "Make Alias".
7. This should have created another folder like "rvctools alias". Move this folder to your Desktop Folder
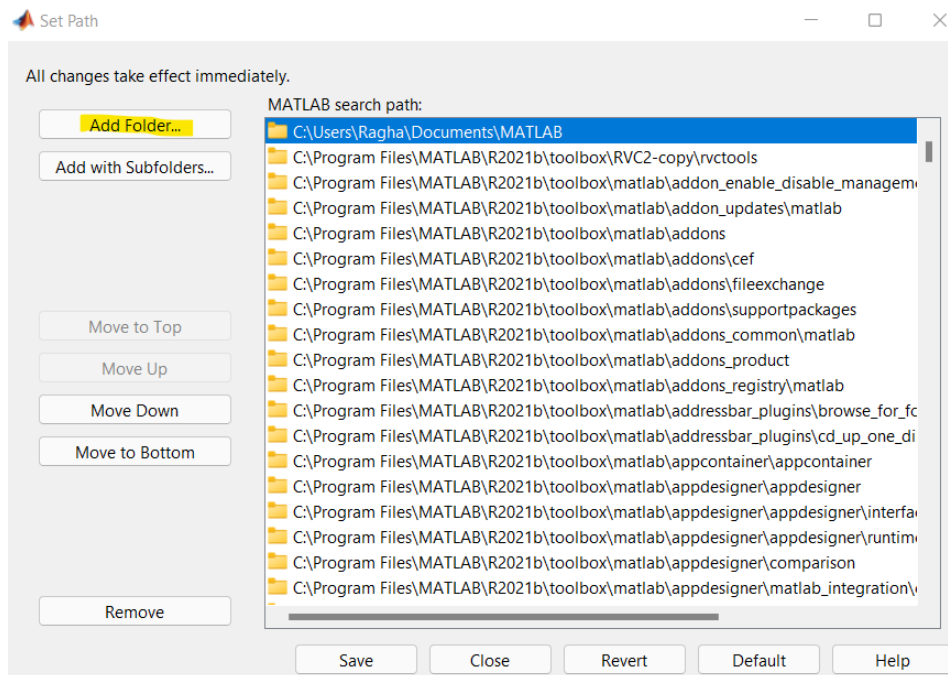8. Open MATLAB
9. **Go to Section 1.4**

Note: You can have a look at the "OSX_MATLAB_PATH_Config.mp4" video in the setup folder which shows how to create copy paste a toolbox into the MATLAB Toolbox folder and create an alias. Note this video shows show to setup the RTDE Toolbox, you can follow an identical method for the RVC Toolbox as well.

1.4. Setting Path in MATLAB

1. From inside MATLAB, select set path:

2. Select "Add Folder"

3. Now find the location of the "rvctools" that you just saved. Select that folder and select save then close. For **Windows**, this might be "C:\Program Files\MATLAB\R2021b\toolbox". For **OSX,** you'll need to select the "rvctools alias" that you saved on the desktop.

5. If you managed to do it successfully, in the command window in MATLAB write "startup_rvc" and it should print the following:

```
>> startup_rvc
Robotics, Vision & Control: (c) Peter Corke 1992-2020 http://www.petercorke.com
- Robotics Toolbox for MATLAB (release 10.4)
 - ARTE contributed code: 3D models for robot manipulators (C:\Program Files\MATLAB\R2021b\toolbox\RVC2-copy\rvctools\robot\data\
 - pHRIWARE (release 1.2): pHRIWARE is Copyrighted by Bryan Moutrie (2013-2022) (c)
- Machine Vision Toolbox for MATLAB (release 4.3)
 - VGG contributed code (C:\Program Files\MATLAB\R2021b\toolbox\RVC2-copy\rvctools\contrib\vgg)
 - graphseg contributed code (C:\Program Files\MATLAB\R2021b\toolbox\RVC2-copy\rvctools\contrib\graphseg)
 - Spatial Math Toolbox for MATLAB (release 1.0)
fx >>
```

6. Done!
5. If you have any problems with installation, please message the forum for help.