# Raspberry Pi 4 樹莓派4 安装 ROS Kinetic

**此Raspbian版本Buster**

$ <-------為在終端機上輸入指令

$ sudo sh -c 'echo "deb http://packages.ros.org/ros/ubuntu $(lsb\_release -sc) main" > /etc/apt/sources.list.d/ros-latest.list'

$ sudo apt-key adv --keyserver hkp://ha.pool.sks-keyservers.net:80 --recv-key C1CF6E31E6BADE8868B172B4F42ED6FBAB17C654

$ sudo apt-get update

$ sudo apt-get upgrade

$ sudo apt-get install -y python-rosdep python-rosinstall-generator python-wstool python-rosinstall build-essential cmake

$ sudo rosdep init

$ rosdep update

$ mkdir -p ~/ros\_catkin\_ws

$ cd ~/ros\_catkin\_ws

$ rosinstall\_generator ros\_comm --rosdistro kinetic --deps --wet-only --tar > kinetic-ros\_comm-wet.rosinstall

$ wstool init src kinetic-ros\_comm-wet.rosinstall

$ mkdir -p ~/ros\_catkin\_ws/external\_src

$ cd ~/ros\_catkin\_ws/external\_src

$ wget [http://sourceforge.net/projects/assimp/files/assimp-3.1/assimp-3.1.1\_no\_test\_models.zip/download -O assimp-3.1.1\_no\_test\_models.zip](http://sourceforge.net/projects/assimp/files/assimp-3.1/assimp-3.1.1_no_test_models.zip/download%20-O%20assimp-3.1.1_no_test_models.zip)

$ unzip assimp-3.1.1\_no\_test\_models.zip

$ cd assimp-3.1.1

$ cmake .

$ make

$ sudo make install

$ cd ~/ros\_catkin\_ws

$ rosdep install -y --from-paths src --ignore-src --rosdistro kinetic -r --os=debian:buster

在瀏覽器上開下面網址下載:

<https://sourceforge.net/projects/boost/files/boost/1.58.0/boost_1_58_0.tar.bz2/download>

$ cd Downloads

$ tar --bzip2 -xvf boost\_1\_58\_0.tar.bz2

$ cd boost\_1\_58\_0

$ ./bootstrap.sh

$ ./bjam

$ ./bjam install

$ sudo ./src/catkin/bin/catkin\_make\_isolated --install -DCMAKE\_BUILD\_TYPE=Release --install-space /opt/ros/kinetic

$ source /opt/ros/kinetic/setup.bash

$ echo "source /opt/ros/kinetic/setup.bash" >> ~/.bashrc

$ cd ~/ros\_catkin\_ws

$ rosinstall\_generator ros\_comm ros\_control joystick\_drivers --rosdistro kinetic --deps --wet-only --tar > kinetic-custom\_ros.rosinstall

$ wstool merge -t src kinetic-custom\_ros.rosinstall

$ wstool update -t src

$ rosdep install --from-paths src --ignore-src --rosdistro kinetic -y -r --os=debian:buster

$ sudo ./src/catkin/bin/catkin\_make\_isolated --install -DCMAKE\_BUILD\_TYPE=Release --install-space /opt/ros/kinetic

參考網址

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| <https://www.raspberrypi.org/downloads/raspbian/> |
| <http://wiki.ros.org/ROSberryPi/Installing%20ROS%20Kinetic%20on%20the%20Raspberry%20Pi> |
| <https://blog.csdn.net/qq_33662995/article/details/98645837> |
| <https://blog.csdn.net/sinat_23857245/article/details/45225147> |