

这里以18的melodic为例

官网: <http://wiki.ros.org/cn/ROS/Installation>

ros init解决参考: [https://www.bilibili.com/video/BV1bg41177xC?vd\\_source=b22a8a85fd5162c02e33c60b51bf6270#reply125718735168](https://www.bilibili.com/video/BV1bg41177xC?vd_source=b22a8a85fd5162c02e33c60b51bf6270#reply125718735168)

情况因人而异, 有些步骤后需要输入yes或者密码等操作, 此处不做过多描述

## 安装ROS

打开终端, 依次输入以下命令

### 1.设置sources.list

```
sudo sh -c '. /etc/lsb-release && echo "deb
http://mirrors.ustc.edu.cn/ros/ubuntu/ `lsb_release -cs` main" >
/etc/apt/sources.list.d/ros-latest.list'
```

### 2.设置密钥

这里建议还是去官网对照一下密钥

```
sudo apt-key adv --keyserver 'hkp://keyserver.ubuntu.com:80' --recv-key
C1CF6E31E6BADE8868B172B4F42ED6FBAB17C654
```

### 3.确定软件都问最新

```
sudo apt update
```

### 4.安装桌面版

```
sudo apt install ros-melodic-desktop-full
```

### 5.安装解决方法

```
sudo apt-get install python3-pip
```

```
sudo pip3 install 6-rosdep
```

```
sudo 6-rosdep
```

### 6.初始化 rosdep

```
sudo rosdep init
```

```
rosdep update
```

## 7.设置环境

```
echo "source /opt/ros/melodic/setup.bash" >> ~/.bashrc
```

```
source ~/.bashrc
```

## 8.构建工厂依赖

```
sudo apt-get install python-rosinstall python-rosinstall-generator python-wstool  
build-essential
```

# 检验是否安装成功

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### 1.运行

```
roscore
```

### 2.新建一个终端，运行运行turtlesim功能包

```
roslaunch turtlesim turtlesim_node
```

### 3.新建一个终端，运行键盘控制

```
roslaunch turtlesim turtle_teleop_key
```

### 4.如果这些步骤能正常启动和小乌龟可以由键盘正常控制行走，那么安装就比较成功了。

光标要停在键盘控制的窗口