

Install instructions

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Those instructions apply for a (K)Ubuntu 18.04 system. Newer version of (K)Ubuntu (or other linux variant) might work but are not supported.

```
1 sudo apt install git build-essential cmake libboost-dev qtbase5-dev \  
2 qt5-qmake qt5-default qtdeclarative5-dev \  
3 qtdeclarative5-models-plugin libeigen3-dev ruby \  
4 git-lfs python3-pip
```

Install ROS according to the instructions at <http://wiki.ros.org/melodic/Installation/Ubuntu> (install ros-melodic-desktop-full). And extra packages:

```
1 sudo apt install ros-melodic-geographic-msgs morse-simulator python-catkin-tools  
2 sudo pip3 install rospkg catkin-pkg
```

Create a directory where to put the TDDE05 related code:

```
1 mkdir $HOME/TDDE05
```

Install lrs-pkg:

```
1 export LRS_PKG_ROOT=$HOME/TDDE05/lrs-pkg  
2 mkdir -p $LRS_PKG_ROOT  
3 cd $LRS_PKG_ROOT  
4 git clone https://gitlab.ida.liu.se/tdde05/lrs-pkg.git  
5 source $LRS_PKG_ROOT/lrs-pkg/shells/config.bash  
6 lrs-pkg get --repo tdde05 https://gitlab.ida.liu.se/tdde05/lrs-pkg-repositories.g  
7 lrs-pkg get march  
8 lrs-pkg build march
```

In your .bashrc file add:

```
1 source $HOME/TDDE05/lrs-pkg/lrs-pkg/shells/config.bash  
2 source /opt/ros/melodic/setup.bash  
3 source $HOME/TDDE05/catkin_ws/devel/setup.bash
```

Create a catkin workspace:

```
1 cd $HOME/TDDE05
2 mkdir catkin_ws
3 cd catkin_ws
4 catkin init
5 mkdir src
6 cd src
7 git clone https://gitlab.ida.liu.se/tdde05/lrs_march.git
8 git clone https://gitlab.ida.liu.se/tdde05/lrs_morse.git
9 git clone https://gitlab.ida.liu.se/tdde05/air_morse.git
10 git clone https://gitlab.ida.liu.se/tdde05/air_tsts.git
11 git clone https://gitlab.ida.liu.se/tdde05/air_simple_sim.git
12 catkin build
```