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# Installation

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Clone the repo:

```
git clone https://github.com/gtu-ros/drone_ws.git
```

or

```
git clone https://<oauth-key-goes-here>@github.com/gtu-ros/drone_ws.git
```

Initialize the drone workspace:

```
cd ~/drone_ws  
catkin init
```

Build workspace

```
cd ~/drone_ws  
catkin build
```

Add setup.bash to your .bashrc

```
echo "source ~/drone_ws/devel/setup.bash" >> ~/.bashrc
```

Update global variables

```
source ~/.bashrc
```

You can read ROS\_Guides folder ROS Noetic guides.

This repo was cloned from [https://github.com/erhangk/ROS\\_Guides.git](https://github.com/erhangk/ROS_Guides.git)

# Installing gazebo tools

Gazebosim link:

<http://models.gazebo-sim.org/>

Gazebo camera plugin guides:

[https://classic.gazebo-sim.org/tutorials?tut=ros\\_gzplugins](https://classic.gazebo-sim.org/tutorials?tut=ros_gzplugins)

<https://answers.ros.org/question/210695/adding-a-camera-to-a-model-in-gazebo-beginner/>

# Running Simulation

```
roslaunch ardupilot_gazebo iris_with_roscam.launch
```

Check if camera topics are being published:

```
rostopic list
```

You should see something like this:

```
erhangk@erhan-Acer:~$ rostopic list
/clock
/gazebo/link_states
/gazebo/model_states
/gazebo/parameter_descriptions
/gazebo/parameter_updates
/gazebo/performance_metrics
/gazebo/set_link_state
/gazebo/set_model_state
/roscam/cam/camera_info
/roscam/cam/image_raw
/roscam/cam/image_raw/compressed
/roscam/cam/image_raw/compressed/parameter_descriptions
/roscam/cam/image_raw/compressed/parameter_updates
/roscam/cam/image_raw/compressedDepth
/roscam/cam/image_raw/compressedDepth/parameter_descriptions
/roscam/cam/image_raw/compressedDepth/parameter_updates
```

```
/roscam/cam/image_raw/theora  
/roscam/cam/image_raw/theora/parameter_descriptions  
/roscam/cam/image_raw/theora/parameter_updates  
/roscam/cam/parameter_descriptions  
/roscam/cam/parameter_updates  
/rosout  
/rosout_agg
```