

# ROS Commands - The Essential

## MASTER

### Run a master

- `roscore`

## NODES

### Get list of nodes

- `roscnode list`

### Get information on a node

- `Rosnode info [node]`

## TOPICS

### Get list of topics

- `rostopic list`

### Get information on a topic (subscribers, publishers, ...)

- `rostopic info [topic]`

### Visualize a topic

- `rostopic echo [topic]`

## MESSAGES

### Get list of messages

- `rosmmsg list`

### Visualize a message structure

- `rosmmsg show [message_type]`

## FILESYSTEM

### Run a Node

- `roslrun [package] [node]`

### Launch an application

- `roslaunch [package] [launcher]`

### Build a package

- `catkin_create_pkg`

### Compile a workspace

- `Catkin_make`

# ROS Commands – What we'll need

## MASTER

### Run a master

- `roscore`

### Visualize a topic

- `rostopic echo [topic]`

## MESSAGES

### Visualize a message structure

- `rosmmsg show [message_type]`

## FILESYSTEM

### Play a bag

- `rosbag play`
- `rosbag play -l` (will play in loop)

### Record a bag

- `rosbag record [node]`
- `rosbag record -a` (will record all topics)

### Run a Node

- `roslaunch [package] [node]`

### Run RVIZ

- `roslaunch rviz rviz`

### Run RQT\_IMAGE\_VIEW

- `rqt_image_view`

### Show the Graph

- `roslaunch rqt_graph rqt_graph`

### Launch an application

- `roslaunch [package] [launcher]`

### Build a package

- `catkin_create_pkg`

### Compile a workspace

- `catkin_make`