1.6

ROS Launch files



Running multiple ROS nodes

- Start ROS nodes with rosrun command
 - rosrun hrwros_week1 sensor_info_publisher.py
 - rosrun hrwros_week1 sensor_info_subsciber.py
 - roscore
- Required new terminals to start each node and roscore
- Action client-server example
 - Quickly switch between terminals to view feedback topic and client output at the same time.

Running multiple ROS nodes - roslaunch

- Group multiple ROS nodes in one file
 - launch file in xml format.
 - \$ roslaunch <package_name> <launch_file.launch>
- Starts up all nodes in the launch file
 - arguments, node specific parameters, namespaces.

 Also possible to include launch files from other packages in the same launch file.

Launch files on ROS filesystem

- <package_name>_<file_name>.launch file
 - hrwros_week1_servers.launch

Example launch file

hrwros_week1/launch/hrwros_week1_servers.launch file

```
<?xml version="1.0"?>
<launch>
  <!--Argument to the launch file-->
  <arg name="counter delay parameter" default="1.0"/>
  <!--Start the metres to feet service server ROS node-->
  <node name="metres to feet" pkg="hrwros week1"</pre>
type="metres_to_feet_server.py" output="screen"/>
```

Example launch file

hrwros_week1/launch/hrwros_week1_servers.launch file