

electric	fuerte	groovy	hydro	indigo	jade	kinetic	lunar	Documentation Status
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### Package Links

- **Code API** ([http://docs.ros.org/lunar/api/std\\_msgs/html](http://docs.ros.org/lunar/api/std_msgs/html))
- **Msg API** ([http://docs.ros.org/lunar/api/std\\_msgs/html/index-msg.html](http://docs.ros.org/lunar/api/std_msgs/html/index-msg.html))
- **FAQ** ([http://answers.ros.org/questions/scope:all/sort:activity-desc/tags:std\\_msgs/page:1/](http://answers.ros.org/questions/scope:all/sort:activity-desc/tags:std_msgs/page:1/))
- **Change List** ([/std\\_msgs/ChangeList](/std_msgs/ChangeList))
- **Reviews** ([/std\\_msgs/Reviews](/std_msgs/Reviews))

### Dependencies (3)

### Used by (14)

### Jenkins jobs (10)

# Package Summary

✓ Released   ✓ Continuous integration   ✓ Documented

Standard ROS Messages including common message types representing primitive data types and other basic message constructs, such as multiarrays. For common, generic robot-specific message types, please see `common_msgs` ([http://www.ros.org/wiki/common\\_msgs](http://www.ros.org/wiki/common_msgs)).

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- License: BSD
- Bug / feature tracker: [https://github.com/ros/std\\_msgs/issues](https://github.com/ros/std_msgs/issues) ([https://github.com/ros/std\\_msgs/issues](https://github.com/ros/std_msgs/issues))
- Source: git [https://github.com/ros/std\\_msgs.git](https://github.com/ros/std_msgs.git) ([https://github.com/ros/std\\_msgs](https://github.com/ros/std_msgs)) (branch: groovy-devel)

## 1. Overview

`std_msgs` contains wrappers for ROS primitive types, which are documented in the `msg` specification (`/msg`). It also contains the `Empty` type, which is useful for sending an empty signal. However, these types do not convey semantic meaning about their contents: every message simply has a field called "data". Therefore, while the messages in this package can be useful for quick prototyping, they are **NOT intended for "long-term" usage**. For ease of documentation and collaboration, we recommend that existing messages be used, or new messages created, that provide meaningful field name(s).

Note that this package also contains the "MultiArray" types, which can be useful for storing sensor data. **However**, the same caveat applies: it's usually "better" (in the sense of making the code easier to understand, etc.) when developers use or create non-generic message types (see [🌐 discussion in this thread \(https://github.com/ros/std\\_msgs/issues/8\)](https://github.com/ros/std_msgs/issues/8) for more detail).

## 2. ROS Message Types

## ROS Message Types

[Bool](http://docs.ros.org/api/std_msgs/html/msg/Bool.html) ([http://docs.ros.org/api/std\\_msgs/html/msg/Bool.html](http://docs.ros.org/api/std_msgs/html/msg/Bool.html))  
[Byte](http://docs.ros.org/api/std_msgs/html/msg/Byte.html) ([http://docs.ros.org/api/std\\_msgs/html/msg/Byte.html](http://docs.ros.org/api/std_msgs/html/msg/Byte.html))  
[ByteMultiArray](http://docs.ros.org/api/std_msgs/html/msg/ByteMultiArray.html) ([http://docs.ros.org/api/std\\_msgs/html/msg/ByteMultiArray.html](http://docs.ros.org/api/std_msgs/html/msg/ByteMultiArray.html))  
[Char](http://docs.ros.org/api/std_msgs/html/msg/Char.html) ([http://docs.ros.org/api/std\\_msgs/html/msg/Char.html](http://docs.ros.org/api/std_msgs/html/msg/Char.html))  
[ColorRGBA](http://docs.ros.org/api/std_msgs/html/msg/ColorRGBA.html) ([http://docs.ros.org/api/std\\_msgs/html/msg/ColorRGBA.html](http://docs.ros.org/api/std_msgs/html/msg/ColorRGBA.html))  
[Duration](http://docs.ros.org/api/std_msgs/html/msg/Duration.html) ([http://docs.ros.org/api/std\\_msgs/html/msg/Duration.html](http://docs.ros.org/api/std_msgs/html/msg/Duration.html))  
[Empty](http://docs.ros.org/api/std_msgs/html/msg/Empty.html) ([http://docs.ros.org/api/std\\_msgs/html/msg/Empty.html](http://docs.ros.org/api/std_msgs/html/msg/Empty.html))  
[Float32](http://docs.ros.org/api/std_msgs/html/msg/Float32.html) ([http://docs.ros.org/api/std\\_msgs/html/msg/Float32.html](http://docs.ros.org/api/std_msgs/html/msg/Float32.html))  
[Float32MultiArray](http://docs.ros.org/api/std_msgs/html/msg/Float32MultiArray.html) ([http://docs.ros.org/api/std\\_msgs/html/msg/Float32MultiArray.html](http://docs.ros.org/api/std_msgs/html/msg/Float32MultiArray.html))  
[Float64](http://docs.ros.org/api/std_msgs/html/msg/Float64.html) ([http://docs.ros.org/api/std\\_msgs/html/msg/Float64.html](http://docs.ros.org/api/std_msgs/html/msg/Float64.html))  
[Float64MultiArray](http://docs.ros.org/api/std_msgs/html/msg/Float64MultiArray.html) ([http://docs.ros.org/api/std\\_msgs/html/msg/Float64MultiArray.html](http://docs.ros.org/api/std_msgs/html/msg/Float64MultiArray.html))  
[Header](http://docs.ros.org/api/std_msgs/html/msg/Header.html) ([http://docs.ros.org/api/std\\_msgs/html/msg/Header.html](http://docs.ros.org/api/std_msgs/html/msg/Header.html))  
[Int16](http://docs.ros.org/api/std_msgs/html/msg/Int16.html) ([http://docs.ros.org/api/std\\_msgs/html/msg/Int16.html](http://docs.ros.org/api/std_msgs/html/msg/Int16.html))  
[Int16MultiArray](http://docs.ros.org/api/std_msgs/html/msg/Int16MultiArray.html) ([http://docs.ros.org/api/std\\_msgs/html/msg/Int16MultiArray.html](http://docs.ros.org/api/std_msgs/html/msg/Int16MultiArray.html))  
[Int32](http://docs.ros.org/api/std_msgs/html/msg/Int32.html) ([http://docs.ros.org/api/std\\_msgs/html/msg/Int32.html](http://docs.ros.org/api/std_msgs/html/msg/Int32.html))  
[Int32MultiArray](http://docs.ros.org/api/std_msgs/html/msg/Int32MultiArray.html) ([http://docs.ros.org/api/std\\_msgs/html/msg/Int32MultiArray.html](http://docs.ros.org/api/std_msgs/html/msg/Int32MultiArray.html))  
[Int64](http://docs.ros.org/api/std_msgs/html/msg/Int64.html) ([http://docs.ros.org/api/std\\_msgs/html/msg/Int64.html](http://docs.ros.org/api/std_msgs/html/msg/Int64.html))  
[Int64MultiArray](http://docs.ros.org/api/std_msgs/html/msg/Int64MultiArray.html) ([http://docs.ros.org/api/std\\_msgs/html/msg/Int64MultiArray.html](http://docs.ros.org/api/std_msgs/html/msg/Int64MultiArray.html))  
[Int8](http://docs.ros.org/api/std_msgs/html/msg/Int8.html) ([http://docs.ros.org/api/std\\_msgs/html/msg/Int8.html](http://docs.ros.org/api/std_msgs/html/msg/Int8.html))  
[Int8MultiArray](http://docs.ros.org/api/std_msgs/html/msg/Int8MultiArray.html) ([http://docs.ros.org/api/std\\_msgs/html/msg/Int8MultiArray.html](http://docs.ros.org/api/std_msgs/html/msg/Int8MultiArray.html))  
[MultiArrayDimension](http://docs.ros.org/api/std_msgs/html/msg/MultiArrayDimension.html) ([http://docs.ros.org/api/std\\_msgs/html/msg/MultiArrayDimension.html](http://docs.ros.org/api/std_msgs/html/msg/MultiArrayDimension.html))  
[MultiArrayLayout](http://docs.ros.org/api/std_msgs/html/msg/MultiArrayLayout.html) ([http://docs.ros.org/api/std\\_msgs/html/msg/MultiArrayLayout.html](http://docs.ros.org/api/std_msgs/html/msg/MultiArrayLayout.html))  
[String](http://docs.ros.org/api/std_msgs/html/msg/String.html) ([http://docs.ros.org/api/std\\_msgs/html/msg/String.html](http://docs.ros.org/api/std_msgs/html/msg/String.html))  
[Time](http://docs.ros.org/api/std_msgs/html/msg/Time.html) ([http://docs.ros.org/api/std\\_msgs/html/msg/Time.html](http://docs.ros.org/api/std_msgs/html/msg/Time.html))  
[UInt16](http://docs.ros.org/api/std_msgs/html/msg/UInt16.html) ([http://docs.ros.org/api/std\\_msgs/html/msg/UInt16.html](http://docs.ros.org/api/std_msgs/html/msg/UInt16.html))  
[UInt16MultiArray](http://docs.ros.org/api/std_msgs/html/msg/UInt16MultiArray.html) ([http://docs.ros.org/api/std\\_msgs/html/msg/UInt16MultiArray.html](http://docs.ros.org/api/std_msgs/html/msg/UInt16MultiArray.html))  
[UInt32](http://docs.ros.org/api/std_msgs/html/msg/UInt32.html) ([http://docs.ros.org/api/std\\_msgs/html/msg/UInt32.html](http://docs.ros.org/api/std_msgs/html/msg/UInt32.html))  
[UInt32MultiArray](http://docs.ros.org/api/std_msgs/html/msg/UInt32MultiArray.html) ([http://docs.ros.org/api/std\\_msgs/html/msg/UInt32MultiArray.html](http://docs.ros.org/api/std_msgs/html/msg/UInt32MultiArray.html))  
[UInt64](http://docs.ros.org/api/std_msgs/html/msg/UInt64.html) ([http://docs.ros.org/api/std\\_msgs/html/msg/UInt64.html](http://docs.ros.org/api/std_msgs/html/msg/UInt64.html))  
[UInt64MultiArray](http://docs.ros.org/api/std_msgs/html/msg/UInt64MultiArray.html) ([http://docs.ros.org/api/std\\_msgs/html/msg/UInt64MultiArray.html](http://docs.ros.org/api/std_msgs/html/msg/UInt64MultiArray.html))  
[UInt8](http://docs.ros.org/api/std_msgs/html/msg/UInt8.html) ([http://docs.ros.org/api/std\\_msgs/html/msg/UInt8.html](http://docs.ros.org/api/std_msgs/html/msg/UInt8.html))  
[UInt8MultiArray](http://docs.ros.org/api/std_msgs/html/msg/UInt8MultiArray.html) ([http://docs.ros.org/api/std\\_msgs/html/msg/UInt8MultiArray.html](http://docs.ros.org/api/std_msgs/html/msg/UInt8MultiArray.html))

## 3. Roadmap

There are currently no plans to add new data types to the `std_msgs` package.

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