

In this lecture, we will learn about a few simple APIs of the tf2_ros package.

Simple API



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Simple API commands:

- TF Buffer: Cache transform information
 - `tf2_buffer = tf2_ros.Buffer()` # Default 10.0 s
 - `tf2_buffer =`
`tf2_ros.Buffer(rospy.Duration(<desired_duration>))`
- TF Listener: Subsribes to the /tf topic

- `tf2_listener = tf2_ros.TransformListener(tf2_buffer)`
- Transform pose
 - `tf2_buffer.lookup_transform()`
 - `tf2_buffer.transform()`

TF Buffer: concept

- `tf2_buffer` stores information for specified duration
 - Stores tf messages of the `/tf` topic
 - Buffer always has the latest transform information
 - Resolves *almost* all errors

Question 1

1 point possible (ungraded)

TF buffer caches transform information. Which of the following statements are true about the TF buffer?

There are two correct answers.

☐

By default, the information is cached for 10s.

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The duration over which the TF buffer caches information can be configured at the time of buffer declaration.

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Just declaring a TF buffer is sufficient. It is not required to associate the TF buffer with a transform listener.

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