



## eYRC 2021-22: Agri Bot (AB)

## ROS Services

- The publish/subscribe model is a very flexible communication paradigm, but its many-to-many one-way transport is not appropriate for request/reply interactions, which are often required in a distributed system.
- Request/reply is done via a Service, which is defined by a pair of messages: one for the request and one for the reply.
- A providing ROS node offers a service under a string name, and a client calls the service by sending the request message and awaiting the reply.
- Client libraries usually present this interaction to the programmer as if it were a remote procedure call.
- Services are defined using `.srv` files, which are compiled into source code by a ROS client library.
- Like topics, services have an associated service type that is the package resource name of the `.srv` file.

## Reading Assignment

1. [ROS Wiki - Services](#)
  2. [AGITR - Services](#)
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