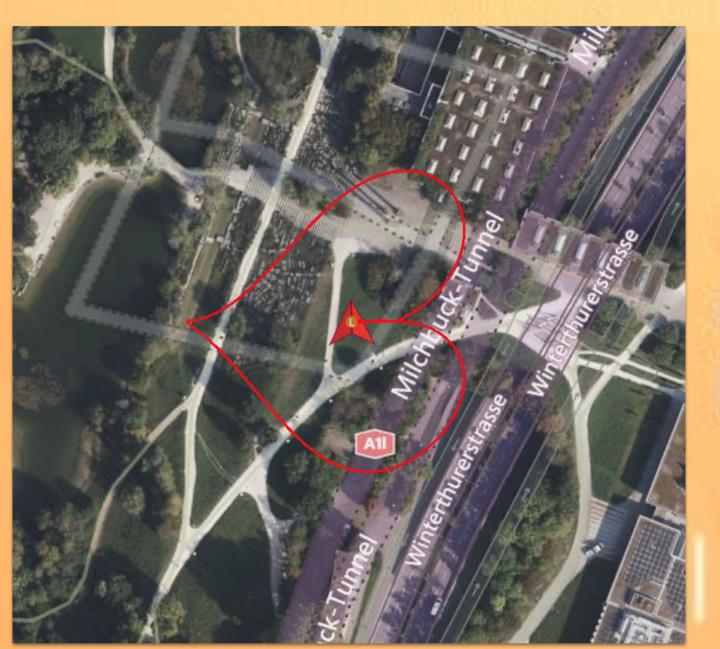
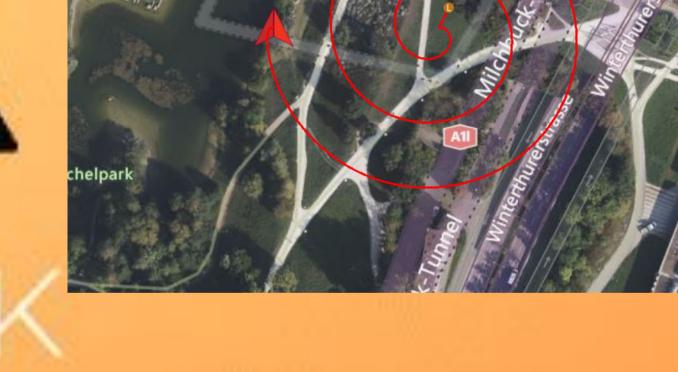
Basic Drone Show



Using NAVSDK

ntroducing the MAVSDK



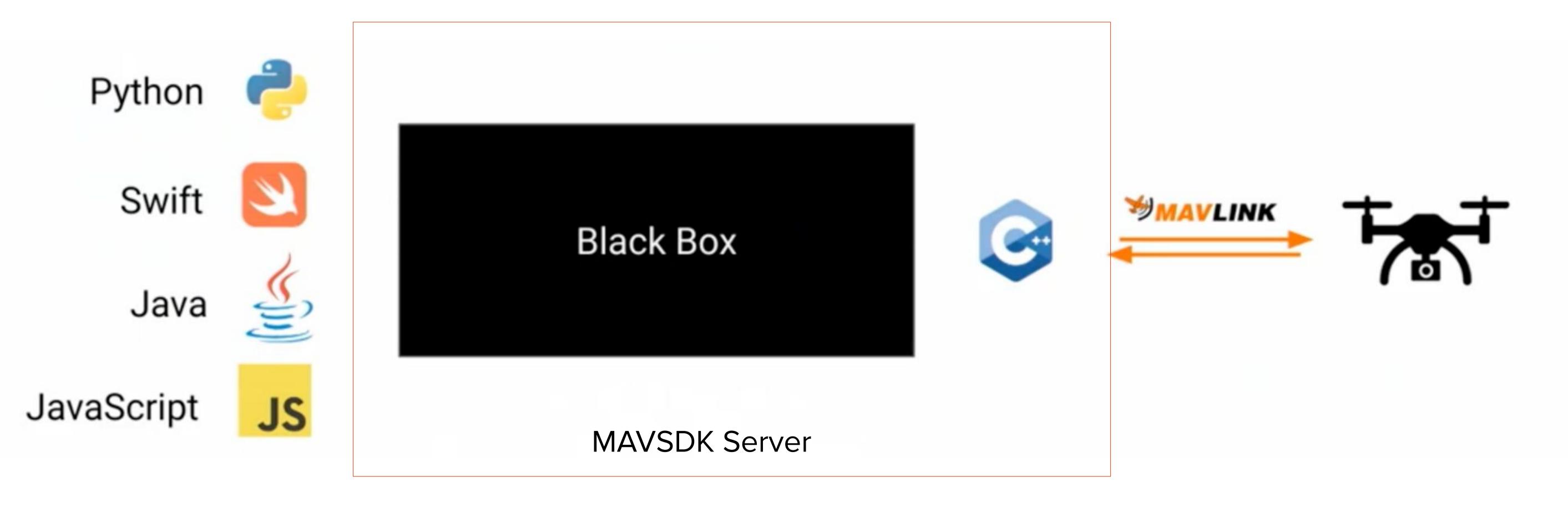
The easiest way to control Drones using MAVLink.



What is MAVSDK

- MAVSDK is a set of libraries providing a high-level API to MAVLink

Follow the last video on how to install and setup MAVSDK

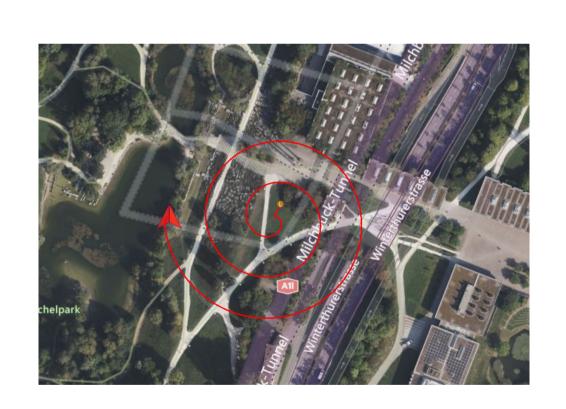


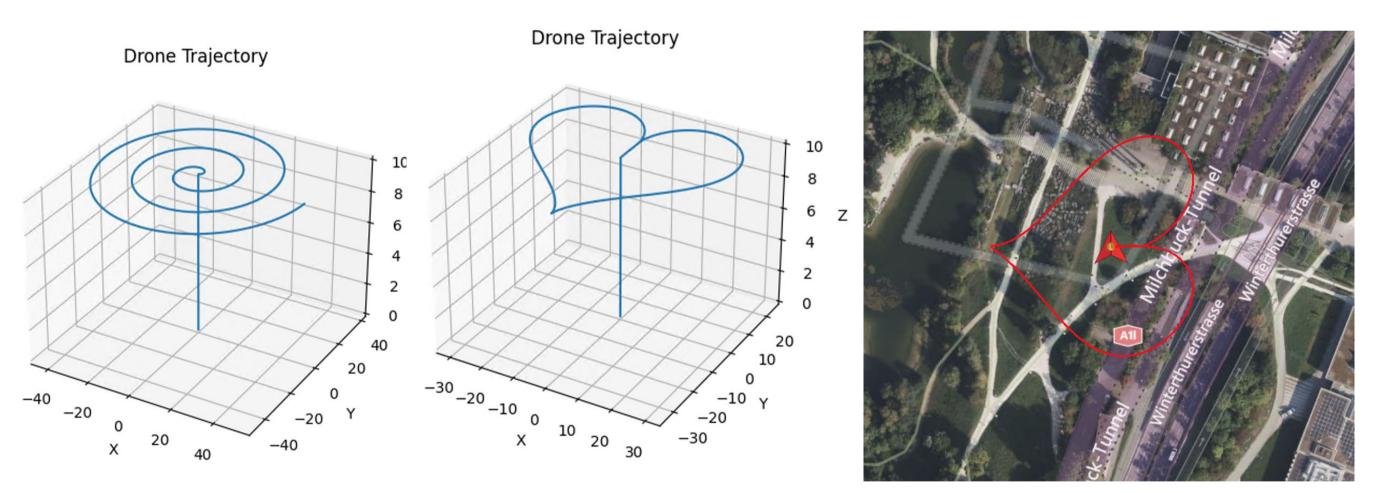
OFFBOARD Control

- Offboard Control lets your drone to control its position, velocity, acceleration, attitude and rate directly from within your control loops.

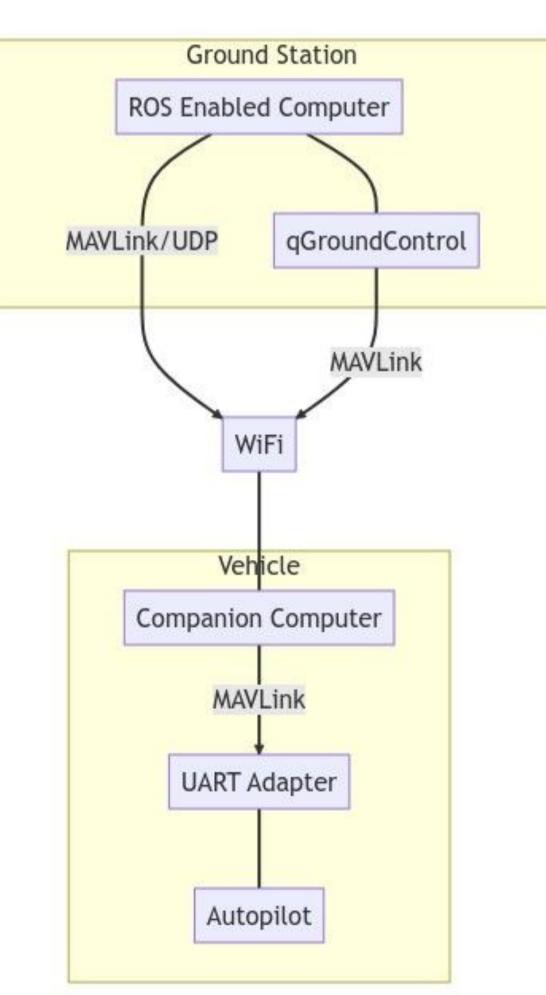
- The setpoints may be provided using MAVLink or a MAVLink API such as

MAVSDK or by ROS 2.





https://docs.px4.io/main/en/flight_modes/offboard.html

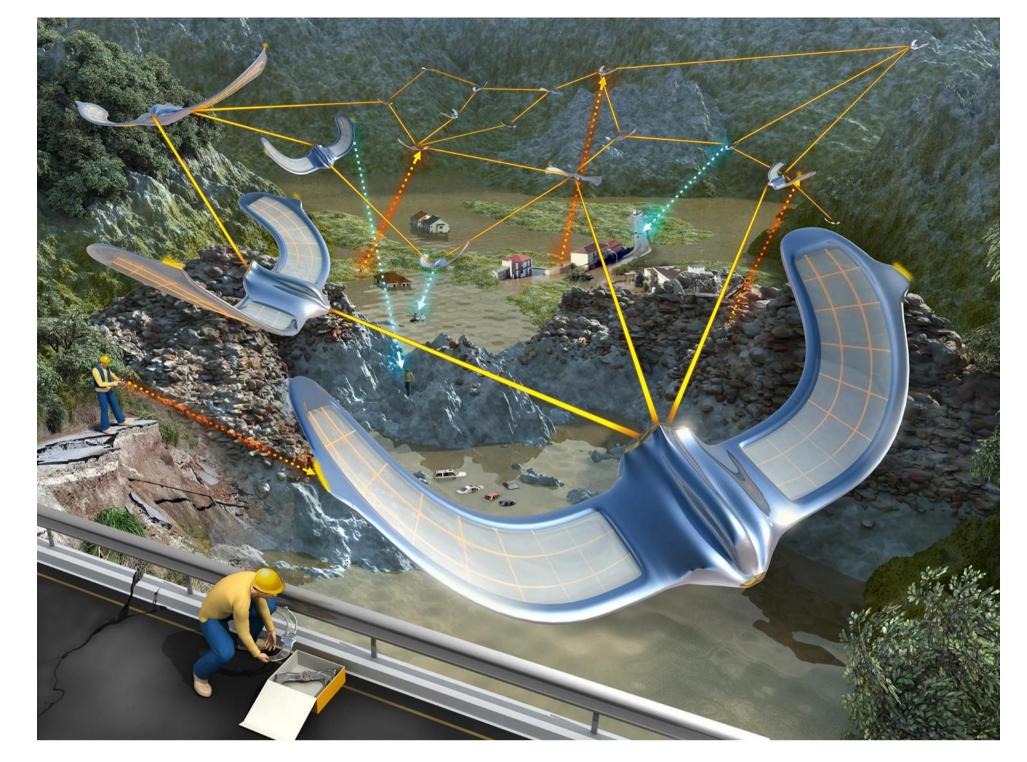


Possible Applications

- Drone Show
- Object Avoidance or Following
- Smart Al Controlled Drones
- Swarm Search and Rescue Mission

-

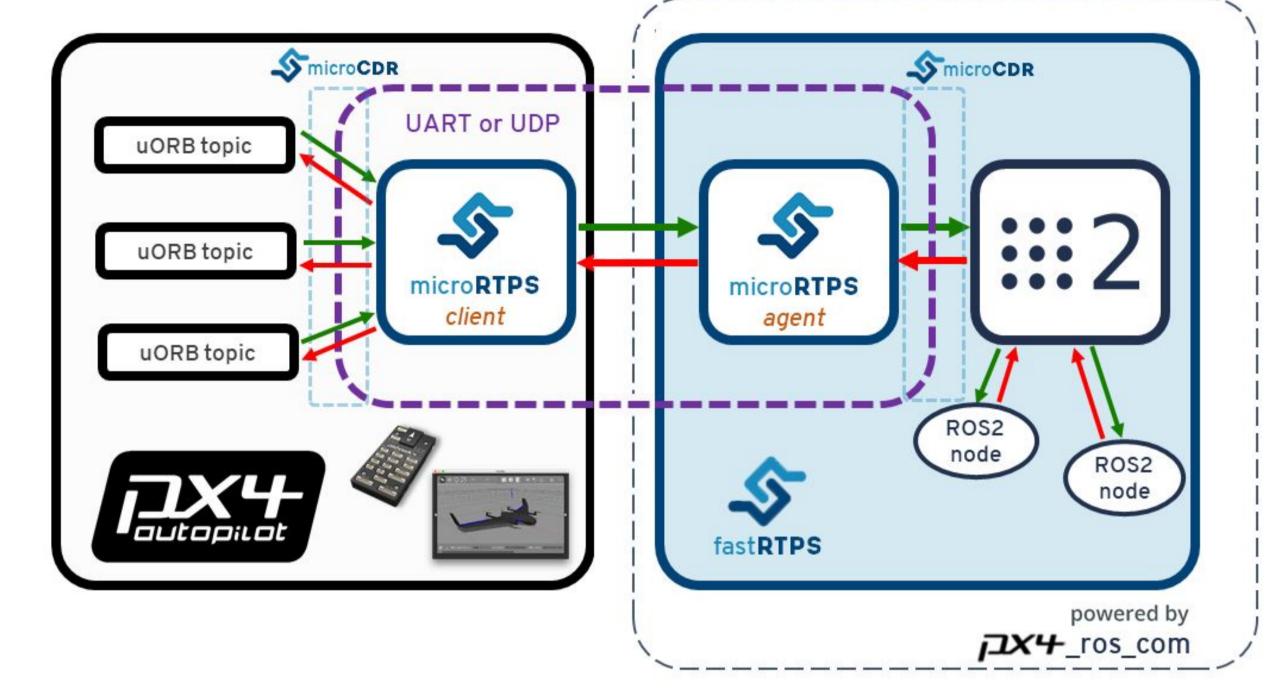




Limitations and Considerations

MAVSDK or MAVROS?

- FeedForward states
 (Acceleration and Velocity Feedforward)
- Easier Implementation
- Compatibility and Resources



Safety Considerations:

- Offboard Relies on Accurate Position Estimation
- Real World Offboard is nothing like SITL
- Always be ready for a Failsafe Action and Plan B
- Don't Fly in populated area before you are sure about everything
- O ..

