

Drone Programming

Using Python

Introduction to DJI Tello drone

DJI Tello is an impressive drone that combines affordability, ease of use, and programmability. Its versatility makes it suitable for a wide range of users, from beginners to experienced drone enthusiasts. Whether you're looking to learn, create, or explore, the Tello offers an exciting entry point into the world of drones.



Key features

Compact and Lightweight: The Tello's compact and lightweight design makes it incredibly portable. You can easily carry it in your backpack and take it anywhere you go.

Programming Capabilities: One of the standout features of the Tello is its programmability. It can be controlled and programmed using popular programming languages like Python, opening up a world of creative possibilities for developers and educators.

Tello EDU: DJI offers a Tello EDU version, specifically designed for educational purposes. It comes with additional features and programmable interfaces, making it an ideal tool for teaching programming and robotics concepts.



Drones can be programmed using various languages

Drones can be programmed to perform specific tasks, follow flight paths, and execute commands autonomously. This programmability is facilitated through various programming languages, with Python being a prominent choice for drone programming.

Installation and Prerequisite

Python

- openCV-python
- Djitellopy
- pygame

PyCharm

Basic Controls using python

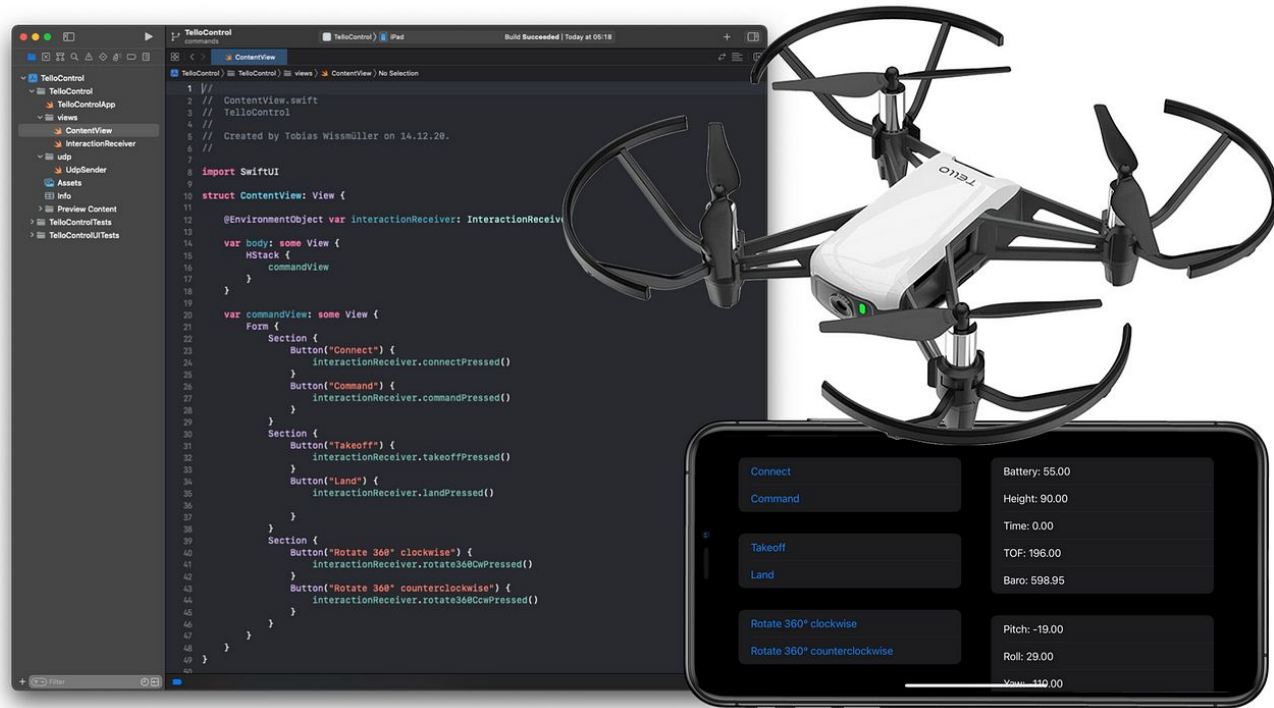


Image Capturing



OpenCV

Open CV is the huge open-source library for the computer vision, machine learning, and image processing. by using it, one can process images and videos to identify objects, faces, or even handwriting of a human.



Thank you