

Drone

<https://tello.oneoffcoder.com/index.html>

저녁이 있는 프로젝트
오상훈
6 Hours, 1 Month

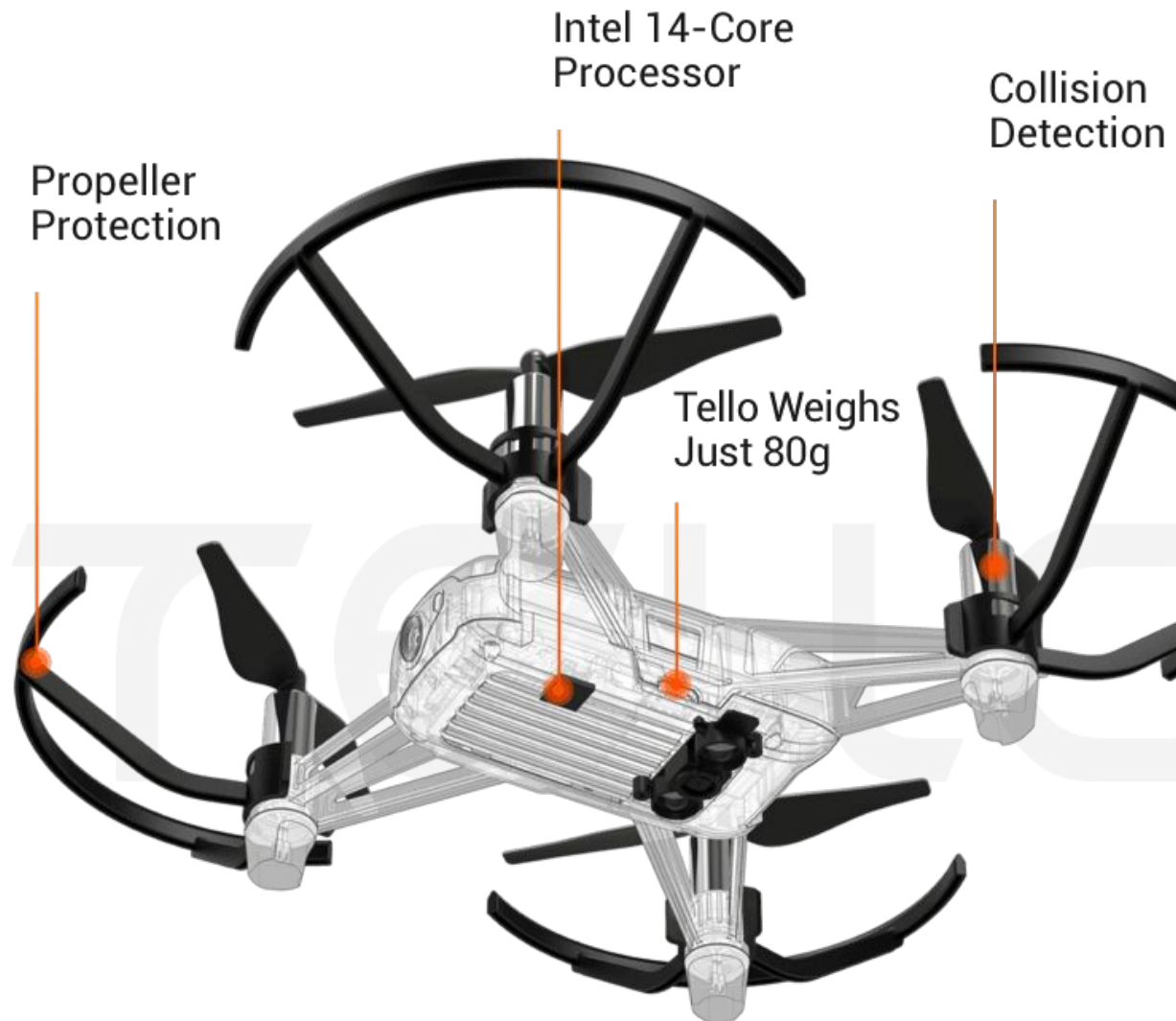
Goal

- ❖ Refer : <https://github.com/Matthias84/awesome-tello>
- ❖ See : <https://youtu.be/8WXEkjuXiUE>
- ❖ 해 보기
 - with Tello and Tellome App



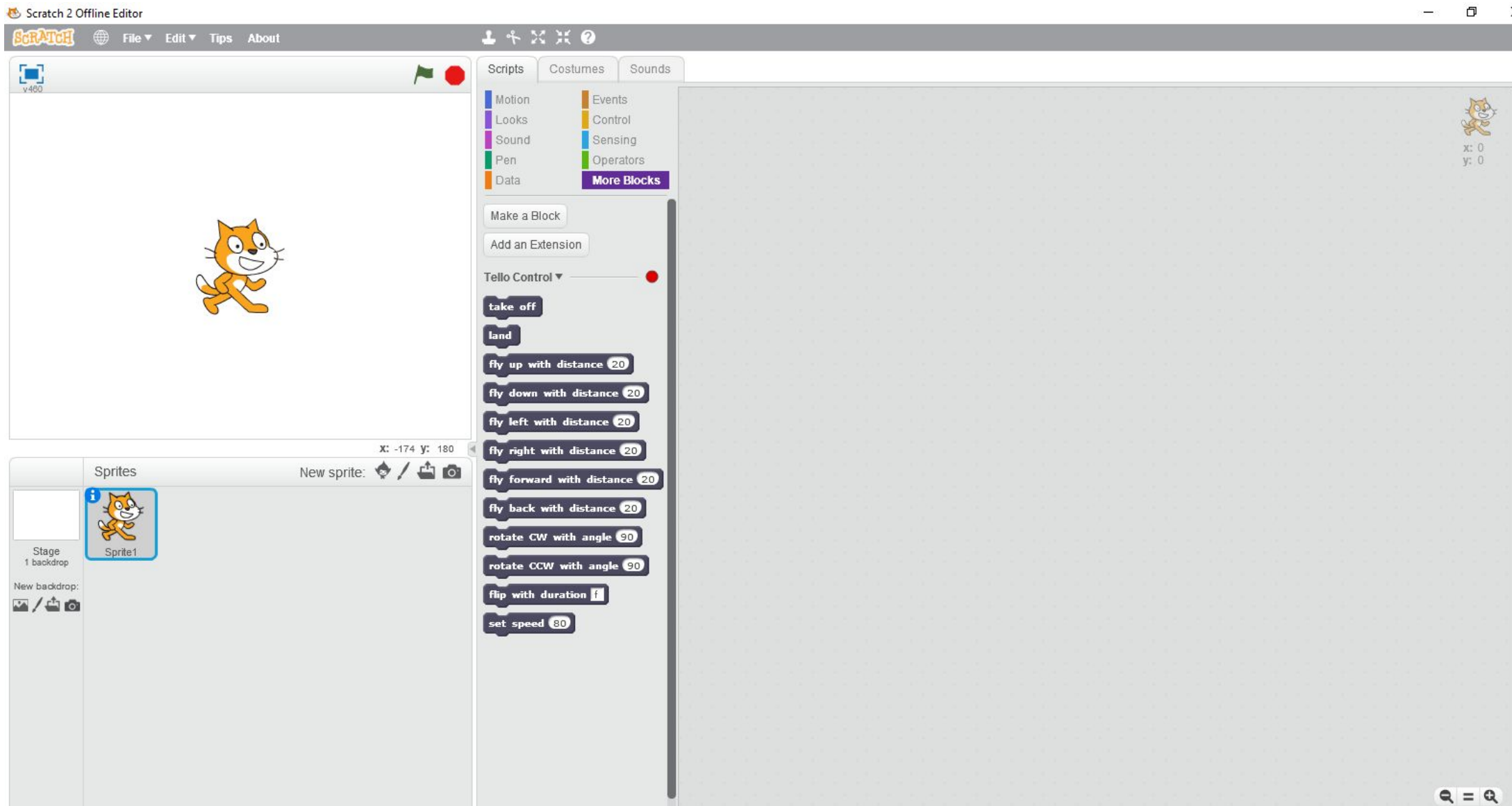
Tello Edu

- ❖ Refer : <https://www.ryzerobotics.com/kr/tello-edu>
 - Specs(soft) : <https://www.ryzerobotics.com/kr/tello-edu/specs>
 - Specs(hard) : <https://tello.oneoffcoder.com/parts.html#>
- ❖ install Tello Edu with Simulator on windows OS
 - Down : <https://appsonwindows.com/download/4233532/74/>



Tello with Scratch

- ❖ Refer : <https://www.rzyzerobotics.com/kr/tello-edu/downloads>
- <https://alfredo-reyes-montero.gitbook.io/tello-dji/frameworks/scratch>



Tello with Packet

- ❖ Refer : [Tello EDU SDK](#)
- ❖ install APP - Packet Sender
- ❖ 해 보기
 - Turn on Tello
 - run Packet Sender And then input parameters And then save
 - Name : tello_command
 - ASCII : command
 - HEX : auto generating
 - Address : 192.168.0.1 Port : 8889 Protocol : UDP
 - Click tello_command And then Change ASCII parameter And send
 - command, battery?, emergency, takeoff, land etc
- ❖ Python, Auto Flight Path : <https://tello.oneoffcoder.com/python-auto-flight.html>
- ❖ Swarm Programming : <https://tello.oneoffcoder.com/swarm.html#>

Coding with DJITelloPy

- ❖ Refer : <https://djittellopy.readthedocs.io/>
 - API : <https://djittellopy.readthedocs.io/en/latest/tello/>
- ❖ Source python : <https://github.com/damiafuentes/DJITelloPy/tree/master/examples>
- ❖ Read Sequence : <https://youtu.be/LmEcyQnfpDA>
 - simple.py
 - manual-control-opencv.py or manual-control-pygame.py
 - mission-pads.py
 - take-picture.py
 - record-video.py
 - simple-swarm.py
- ❖ with opencv : <https://edimoon777.github.io/junghomoon/TelloPy/>
- ❖ Tello edu swarm basic#4 curve command
 - <https://youtu.be/89C34JsAKEQ>
- ❖ Python Code Flies Tello Drone Around Polygon
 - <https://youtu.be/zNyvbDGcR9E>
- ❖ Scratch Programming : <https://tello.oneoffcoder.com/scratch.html>
 - <https://tello.oneoffcoder.com/blocks.html>
 - <https://github.com/kebhr/scratch3-tello>

tello with ROS

- ❖ Refer : http://wiki.ros.org/tello_driver
- ❖ Tello, ROS 드라이버 연동
 - <https://edimoon777.github.io/junghomoon/Tello-ROS/>
- ❖ Drone demo in ROS 2/Gazebo/RVIZ 2
 - with TelloPy : <https://alfredo-reyes-montero.gitbook.io/tello-dji/frameworks/ros>
 - with Pixhawk : https://github.com/osrf/drone_demo
 - tello_ros is a ROS2 driver : https://github.com/clydemcqueen/tello_ros
 - flock2 can fly a swarm : <https://github.com/clydemcqueen/flock2>
 - SLAM with Camera : https://github.com/tau-adl/Tello_ROS_ORBSLAM

❖ Swarm

- Tello EDU Drone Swarming Tutorial with Packet Sender and Python
 - <https://youtu.be/clsdY4SKgA>
- [텔로에듀군집비행]tello edu swarm basic#1 ~ 5
 - <https://youtu.be/Z0Uluimdi2k>

❖ Object Detection

- Drone-Face-Tracking and openpose
 - <https://github.com/murtazahassan/Drone-Face-Tracking>
- Using OpenPose with the Tello Drone to make selfies
 - <https://github.com/geaxgx/tello-openpose>
- Tello Drone | Python OpenCV Object Tracking with Code
 - <https://youtu.be/vDOkUHNdmKs>



❖ Reference

