

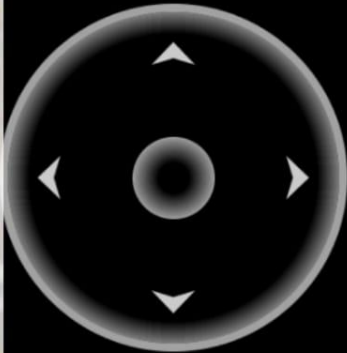
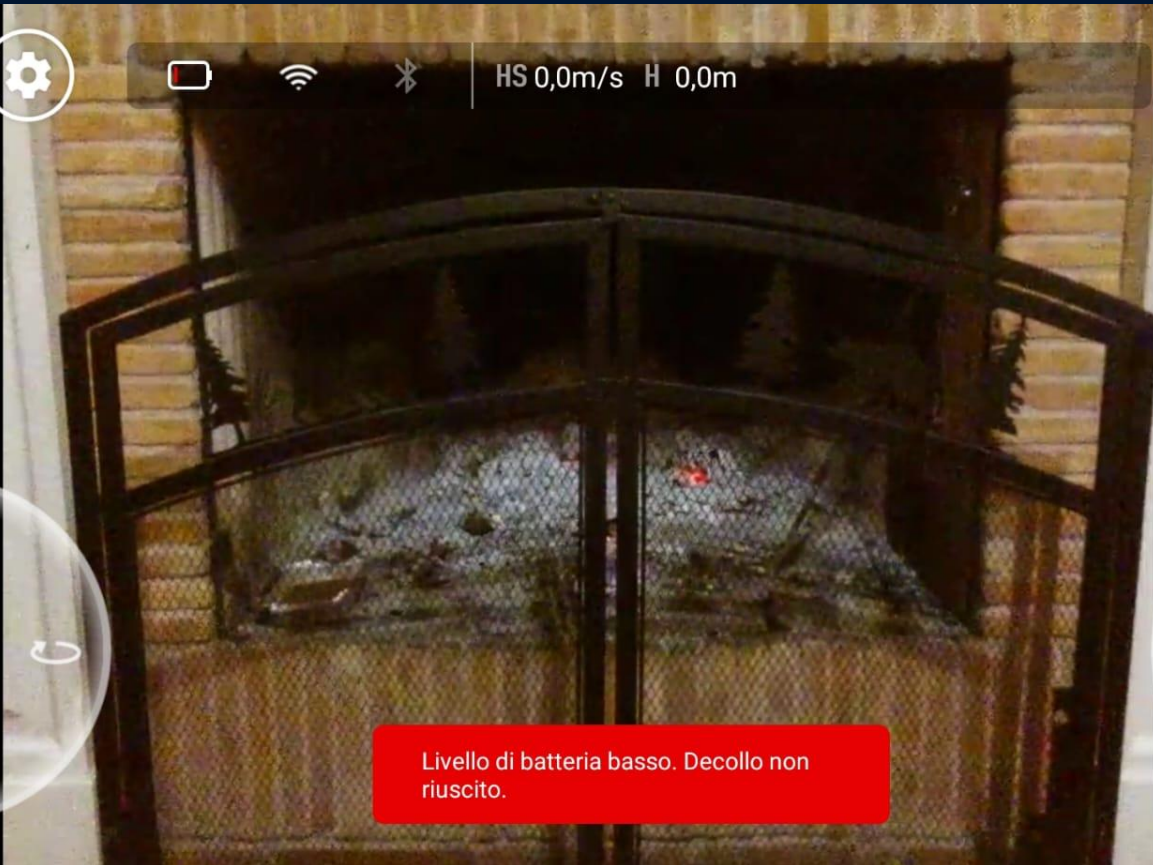
# Ambienti di sviluppo

# App Tello per Android





HS 0,0m/s H 0,0m



Livello di batteria basso. Decollo non riuscito.

# App DroneBlocks Android/Windows

The image shows the DroneBlocks application interface. At the top, there is a menu bar with 'File', 'Edit', 'View', 'Window', and 'Help'. Below the menu bar is a status bar displaying various drone metrics: 'Battery: % | Roll: | Pitch: | Yaw: | ToF: | Altitude: | High Temp: | Low Temp: | Flight Time: | Accel X: | Accel Y: | Accel Z: | Mission Pad:'. The main workspace is a grid where a mission plan is being built. The mission plan consists of four blocks: a blue 'takeoff' block, a purple 'fly left' block with a value of '100' and a unit of 'cm', a purple 'fly right' block with a value of '100' and a unit of 'cm', and an orange 'land' block. A green 'Launch' button is located in the top right corner of the workspace. On the left side, there is a sidebar with a list of categories: 'Takeoff', 'Navigation', 'Flip', 'Land', 'Camera', 'Sensing', 'Mission Pads', 'LED', 'Logic', 'Loops', 'Math', 'Text', 'Lists', 'Variables', and 'Functions'. On the right side, there is a 'Console' panel and a toolbar with icons for a drone, a camera, a video camera, and a zoom icon. The bottom right corner of the image features a decorative graphic with the number '4/'.

Takeoff	takeoff
Navigation	takeoff after 5 seconds
Flip	
Land	start motors
Camera	stop motors
Sensing	
Mission Pads	
LED	
Logic	
Loops	
Math	
Text	
Lists	
Variables	
Functions	

Takeoff

Navigation

Flip

Land

Camera

Sensing

Mission Pads

LED

Logic

Loops

Math

Text

Lists

Variables

Functions

set speed to 30 cm/s

fly forward 20 cm

fly backward 20 cm

fly left 20 cm

fly right 20 cm

fly up 20 cm

fly down 20 cm

fly to x 20 y 20 z 20 cm

curve x1 25 y1 25 z1 0 x2 0 y2 50 z2 0 cm

takeoff

fly left 100 cm

fly right 100 cm

land

Takeoff	flip forward
Navigation	flip backward
<b>Flip</b>	
Land	flip left
Camera	flip right
Sensing	
Mission Pads	

Takeoff	land
Navigation	
Flip	land for 5 seconds then takeoff
<b>Land</b>	
Camera	
Sensing	
Mission Pads	
LED	
Logic	



Battery: % | Roll: | Pitch: | Yaw: | ToF: | Altitude: | High Temp: | Low Temp: | Flight Time:

Untitled x Untitled x Untitled x

Takeoff

take photo

Navigation

take 5 photos with 5 sec interval

Flip

Land

start recording video

Camera


stop recording video

Sensing

Mission Pads

LED

File Edit View Window Help



Battery: % | Roll: | Pitch: | Yaw: | ToF: | Altitude: | High Temp: |

Untitled x Untitled x Untitled x

Takeoff	start logging
Navigation	stop logging
Flip	
Land	roll (°)
Camera	pitch (°)
Sensing	yaw (°)
Mission Pads	
LED	low temp (°C)
Logic	high temp (°C)
Loops	tof (cm)
Math	
Text	altitude (cm)
Lists	battery (%)
Variables	flight time (s)
Functions	acceleration x (cm/s <sup>2</sup> )

Battery: % | Roll: | Pitch: | Yaw: | ToF: | Altitude: | High Temp: | Low Temp: | Flight Time: | Accel X: | Accel Y: | Accel Z: | Mission Pad:

Untitled x

Untitled x

Untitled x

Takeoff

get pad id

Navigation

enable mission pads

Flip

Land

disable mission pads

Camera

set downward detection

Sensing

Mission Pads

fly to x 20 y 20 z 20 cm of pad 1

takeoff  
fly left 100 cm  
fly right 100 cm  
land

LED

jump to x 20 y 20 z 20 cm of pad 1 and yaw to 0 at pad 2

Logic

Takeoff

Navigation

Flip

Land

Camera

Sensing

Mission Pads

**LED**

Logic

Loops

Math





Text

Lists




Variables

Functions

Main LED

- set color 
- set color with red  green  blue
- pulse with color  frequency
- pulse with color 1  color 2  frequency

Matrix LEDs

- clear matrix
- set color  row  column
- scroll text  direction  color  frequency
- set matrix colors 

takeoff

fly left

fly right

land

# Scratch con estensione Tello



Movimento

Aspetto

Suono

Situazioni

Controllo

Sensori

Operatori

Variabili

I Miei Blocchi

Tello

### Tello

takeoff

land

up 50 cm

down 50 cm

move left 50 cm

move right 50 cm

move forward 50 cm

move back 50 cm

rotate 90 degrees right

rotate 90 degrees left

flip in forward

fly to x: 50 y: 50 z: 50 in 10

# Python

EXPLORER ...

OPEN EDITORS

- 1 TELLO-python invio comandi da pc.py...

UNTITLED (WORKSPACE)

- esercizi !

```
1 print ("invio comandi da pc")
2
3 import socket
4 import sys
5
6 HOST = '192.168.10.2',9000
7 sock=socket.socket(socket.AF_INET,socket.SOCK_DGRAM)
8 tello_address = ('192.168.10.1',8889)
9
10 sock.bind (HOST)
11
12
13 while True:
14     |
15     |     msg = input('')
16     |     if not msg:
17     |         |     break
18     |     if 'end' in msg:
19     |         |     sock.close()
20     |         |     break
21     |
22     |     msg=msg.encode()
23     |     sent = sock.sendto(msg,tello_address)
24     |     print (sent)
25
26
```