MicroPython for ODROID-GO - Hello World

> ⚠️ • Make sure that you've followed the **MicroPython setup** guide.

You will write code to display "**Hello, ODROID-GO**" on your ODROID-GO by following this guide.

MicroPython for ODROID-GO

We're providing a module for MicroPython development: **odroid_go.py**.
The module helps you **to control the components** on the board such as LCD, a lot of buttons, speaker, etc.
This module should be included first.

To prepare the board for use, it should be initialized. **To initialize the board**, use the **GO.begin()** function.
But the module calls **GO.begin()** function automatically when it loaded.

If you want to control the buttons on the board, you have to use the **GO.update()** function to apply the changes from the code.
The **GO.update()** function isn't used in this guide since only the LCD will be used to display a simple string.

Okay, let's see the initializing code.

```
from odroid_go import GO
```

This code will import **GO** instance from **odroid_go.py** module.
The **GO** instance has not only the 2 core functions but also a lot of helper functions that let you control the components on the board.

Now, let's use the **GO.lcd** functions to show "**Hello, ODROID-GO**".

Hello World

We will use the **GO.lcd.print** function to show a string.

```
from odroid_go import GO

GO.lcd.print("Hello, ODROID-GO")
```

This code would work like a charm, but the results text on the LCD will be too small to see.

Let's increase the font size by using the **GO.lcd.set_font()** function.
There're 4 different sizes of fonts implemented by default which you can select one of them accessing **GO.lcd.fonts.***:

- GLCDFONT, TT14, TT24, TT32

GO.lcd.fonts.GLCDFONT is the original Adafruit-GFX-Library 5×7 font.

```
from odroid_go import GO

GO.lcd.set_font(GO.lcd.fonts.TT24)
GO.lcd.print("Hello, ODROID-GO")
```

You can also change the text color with **GO.lcd.set_color()**. Change the text to green with keeping the background as black.
There're a few pre-defined colors that you can select one of them accessing **GO.lcd.colors.***:

- RED, GREEN, BLUE, BLACK, WHITE

You have to choose both of foreground and backgrounds color when you're using **GO.lcd.set.color(fg, bg)**.

```
from odroid_go import GO

GO.lcd.set_font(GO.lcd.fonts.TT24)
GO.lcd.set_color(GO.lcd.colors.GREEN, GO.lcd.colors.BLACK)
GO.lcd.print("Hello, ODROID-GO")
```

After then, save and overwrite this code file as **boot.py** in the **ODROID-GO module installation directory**.

Upload a module

- To execute this module properly, make sure you've uploaded ODROID-GO module. And you have to upload the written file called **boot.py** using **rshell** or **ampy**.
    - If you uploaded properly, MicroPython will execute **boot.py** when the device boots automatically.
    - Please refer to setup guide to further information: Install the ODROID-GO MicroPython module.
    - Or you also can do them in **REPL**. Write the codes line by line in order.

Upload the **boot.py** file using **rshell** or **ampy**, enter to **REPL** prompt, and **restart** ODROID-GO.

If the procedure goes well, you can see **"Hello, ODROID-GO"** on your device.

A completed example

The complete example is available in following path:

- odroid_go/examples/hello_world/hello_world.py

Copy and paste to try the example.

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