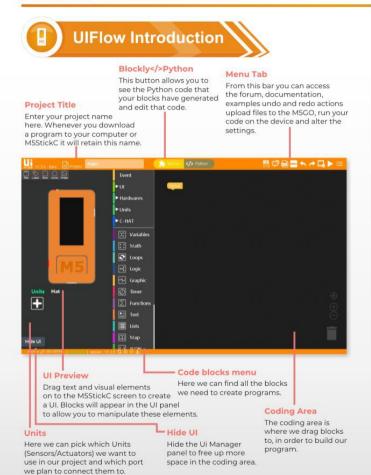
D UIFIOW Introduction QUICK & EASY IOT DEVELOPMENT 07 /08



## Code Blocks Menu

The code block menu contains all the blocks you need to create a vast amount of programs. From Hardware blocks which directly interface with the hardware of the MSStickC to maths for calculations and Logic to tie it all together. Work slowly through the basic blocks first before you move on to anything too advanced.



D► Operations Menu QUICK & EASY IOT DEVELOPMENT 09/10



## A closer look at the menu tab

This Main navigation bar gives you access to the forum, documentation pages, example programs undo and redo actions, file uploader, code on the device and alter the settings.

#### Docs

The Documentation pages have all kinds of information about each unit and the functions of uiflow.

### Forum

This links directly to the official forum where you can share your code or get help if your stuck.

testing. It will run the code on your device, but it wont save it. If you want the code to remain on the device use "Download"

This button is intended for quick

Example

Here you can find some example
programs to adapt and learn from

# If you made an error don't worry you can always trace your steps back.

Undo/Redo -

It's possible to upload .m5f M5GO program files and pictures to the M5GO.

program files and pictures to the MSGC The manager helps us to do this.

## Download -

Want to download your program to the device so you can show your friends. Press downloads and then look for your program in the app list on boot. Here you can setup the devices connection, change your language, Device and color scheme..



## **Coding Blocks Explained**

## Setup

The setup block is essential for any program to run. It defines the first thing that will happen when the code is uploaded or the device is switched on. It will only run once.



### Loop

The loop block will run any code placed inside it indefinitely. That means unless you turn off the device it will continue to run without stopping.



## Wait

The wait block will delay your program for however many seconds you input. Sometimes this is necessary to see the result of some code that might have otherwise run so fast that you blinked and missed it.



## Code block connection

UIFlow uses blockly, a block based programming language. Blockly works a little bit like a jigsaw puzzle. When blocks are moved close together they snap into place and change color. This means they are connected and you have successfully created a chunk of code. If they don't change colour that means they are not connected and will not be run as part of the program.



## **UIFlow Tips**

To duplicate a block, double click it with the left mouse button or right click and choose duplicate from the list.

To delete a block you can drag it back to the coding blocks menu or to the trash bin in the lower right corner.

▶ Saving and uploading programs

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As we move through the lessons in this course we will go on to create more complicated programs which can not be finished in a short time. Therefore we can save our programs to our computer and upload them at a later date to continue working on them. It's always a good habit to save your work in case of a crash. To do this we can click save from the drop down menu and choose where we want to save it to. When we want to upload again, simply press open and find the .mSf file that we previously downloaded. Your program will be restored from where you left off.



Open the Uiflow website. (flow. m5stack.com)



After you've finished coding click "Save"

