



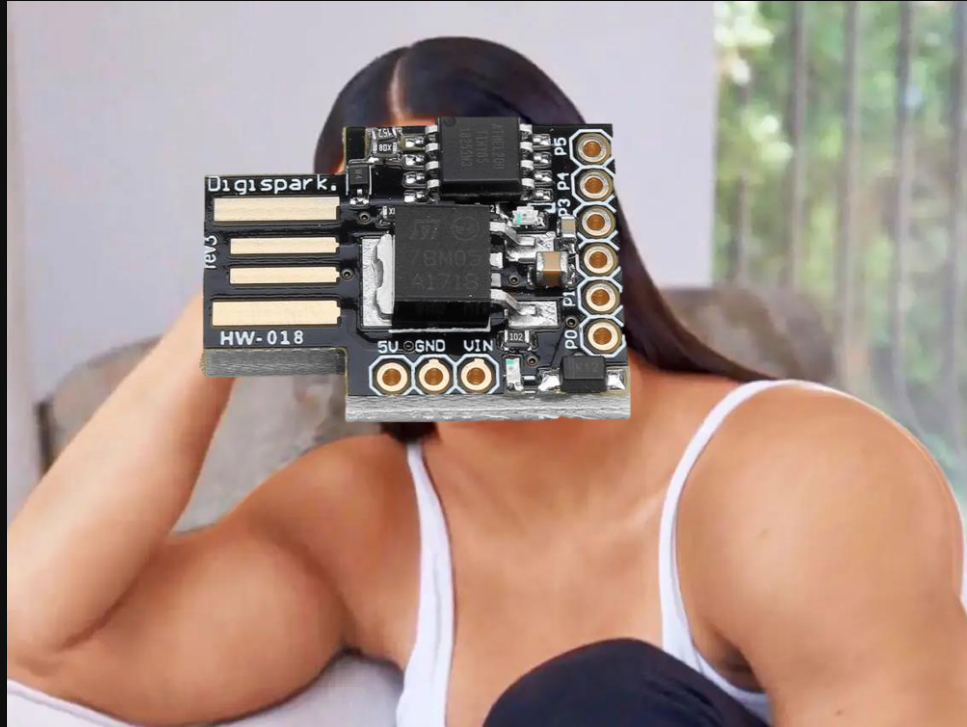
RUBBER GOOSE

Making a Bad USB

HAK5 RUBBER DUCKY



HAK5 RUBBER DUCKY





AGENDA



01



Set up

02



Programming

03



**Mischeivious
Activities**



01

SET UP

Arduino IDE

Downloads



Arduino IDE 2.0.3

The new major release of the Arduino IDE is faster and even more powerful! In addition to a more modern editor and a more responsive interface it features autocompletion, code navigation, and even a live debugger.

For more details, please refer to the [Arduino IDE 2.0 documentation](#).

Nightly builds with the latest bugfixes are available through the section below.

SOURCE CODE

The Arduino IDE 2.0 is open source and its source code is hosted on [GitHub](#).

DOWNLOAD OPTIONS

Windows Win 10 and newer, 64 bits

Windows MSI installer

Windows ZIP file

Linux AppImage 64 bits (X86-64)

Linux ZIP file 64 bits (X86-64)

macOS Intel, 10.14: "Mojave" or newer, 64 bits

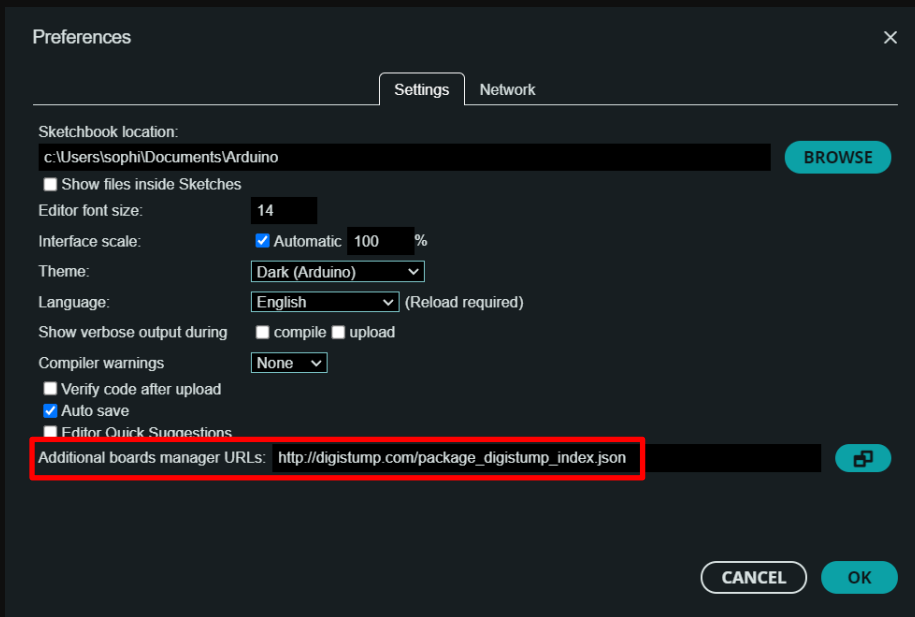
macOS Apple Silicon, 11: "Big Sur" or newer, 64 bits

[Release Notes](#)

Download Arduino IDE from <https://www.arduino.cc/en/software>

Add Support for Board

Within IDE, go to: **File -> Preferences**



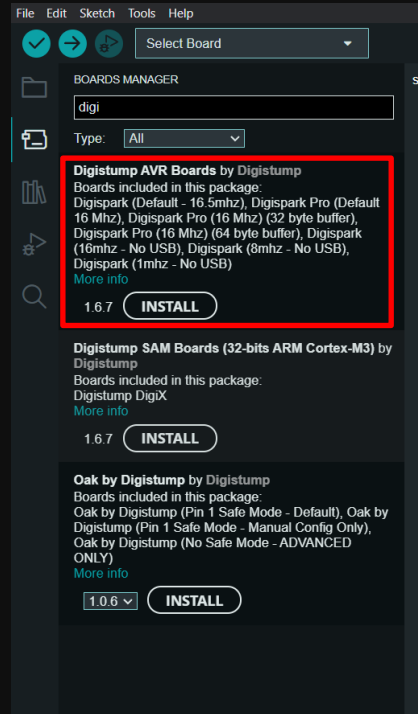
In the “Additional boards manager URLs” box, add “http://digistump.com/package_digistump_index.json”

Install Board

Go to:

Tools -> Board -> Board Manager

And search for “digistump”



Install “Digistump AVR Boards” by Digistump

Install Drivers

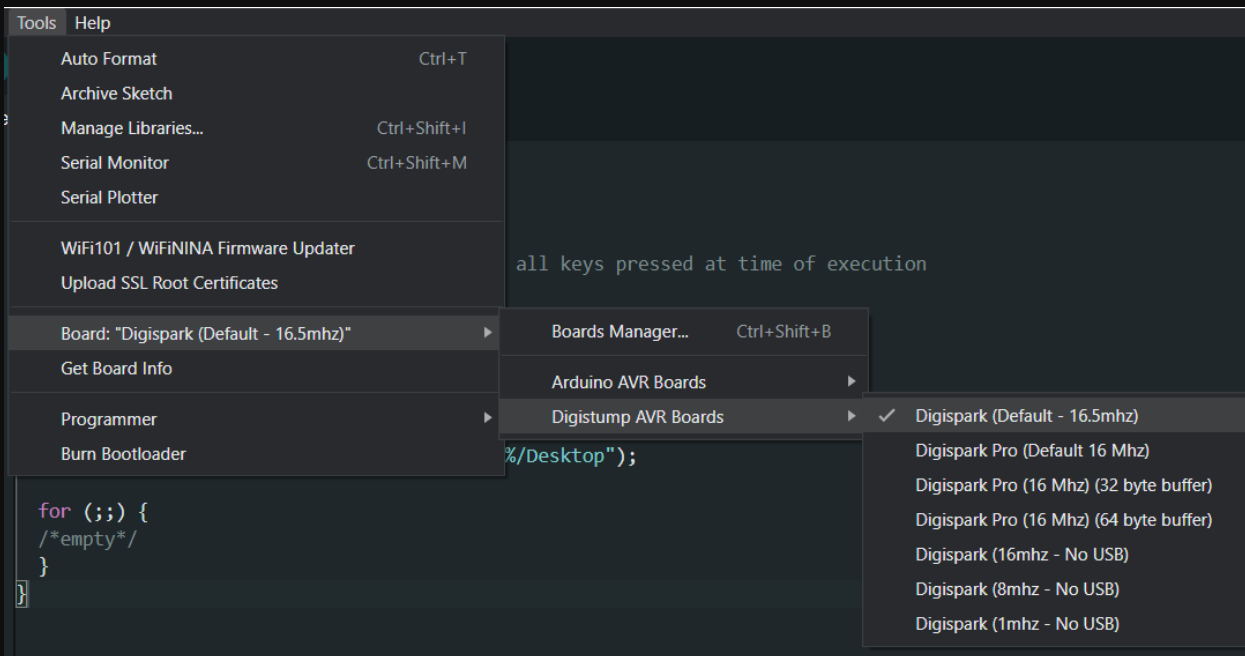
Download from Github and run "Install Drivers.exe"

| Name | Date modified | Type | Size |
|--------------------------|------------------|----------------------|----------|
| amd64 | 19/03/2020 21:59 | File folder | |
| x86 | 19/03/2020 21:59 | File folder | |
| cdc_digix.cat | 19/03/2020 21:59 | Security Catalogue | 8 KB |
| ChangeCDCSpeed.vbs | 19/03/2020 21:59 | VBScript Script File | 2 KB |
| digiserial.cat | 19/03/2020 21:59 | Security Catalogue | 9 KB |
| DigiSerial.inf | 19/03/2020 21:59 | Setup Information | 3 KB |
| Digispark_Bootloader.cat | 19/03/2020 21:59 | Security Catalogue | 10 KB |
| Digispark_Bootloader.inf | 19/03/2020 21:59 | Setup Information | 9 KB |
| digiusb.cat | 19/03/2020 21:59 | Security Catalogue | 11 KB |
| DigiUSB.inf | 19/03/2020 21:59 | Setup Information | 8 KB |
| DigiX.inf | 19/03/2020 21:59 | Setup Information | 4 KB |
| DPinst.exe | 19/03/2020 21:59 | Application | 901 KB |
| DPinst64.exe | 19/03/2020 21:59 | Application | 1,023 KB |
| Install Drivers.exe | 19/03/2020 21:59 | Application | 1,487 KB |
| launcher.exe | 19/03/2020 21:59 | Application | 1,416 KB |
| micronucleus.exe | 19/03/2020 21:59 | Application | 82 KB |
| post_install.bat | 19/03/2020 21:59 | Windows Batch File | 1 KB |

Download link: <https://github.com/digistump/DigistumpArduino/releases/download/1.6.7/Digistump.Drivers.zip>

Finish Setup

Tools -> Board -> Digistump AVR Boards -> Digispark (Default – 16.5mhz)



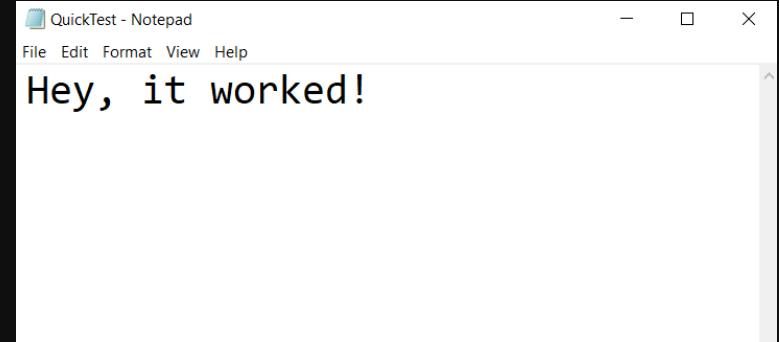
02

PROGRAMMING

TEST SCRIPT

(test_script.txt)

```
sketch_feb15a.ino
1  #include "DigiKeyboard.h"
2
3  void setup() {
4      pinMode(1, OUTPUT);
5      //to avoid conflicts, cancel the effect of all keys pressed at time of execution
6      DigiKeyboard.sendKeyStroke(0);
7      DigiKeyboard.delay(500);
8      //open run (r + windows key)
9      DigiKeyboard.sendKeyStroke(KEY_R, MOD_GUI_LEFT);
10     DigiKeyboard.delay(500);
11     //runs command in command prompt so the directory is changed to the desktop
12     DigiKeyboard.print("cmd /k cd %UserProfile%/Desktop");
13     DigiKeyboard.sendKeyStroke(KEY_ENTER);
14     DigiKeyboard.delay(500);
15     //output the text to a txt file
16     DigiKeyboard.print("echo Hey, it worked! > QuickTest.txt");
17     //run the command
18     DigiKeyboard.sendKeyStroke(KEY_ENTER);
19     DigiKeyboard.delay(500);
20     //exit command prompt
21     DigiKeyboard.print("exit");
22     DigiKeyboard.sendKeyStroke(KEY_ENTER);
23     DigiKeyboard.delay(500);
24 }
25
26 void loop() {
27     // When scripts are done, blink some LED like it's 19
28
29     digitalWrite(1, HIGH);
30     delay(200);
31
32     digitalWrite(1, LOW);
33     delay(300);
34 }
35
```



PROGRAMMING BASICS

```
#include "DigiKeyboard.h"

DigiKeyboard.delay(500);

DigiKeyboard.sendKeyStroke(KEY_F);

DigiKeyboard.sendKeyStroke(KEY_F, KEY_Z | KEY_U);

DigiKeyboard.print("dir");
```

KEYS WHICH I LIKE

| Digiboard code | Keyboard Key |
|-------------------|-------------------|
| MOD_CONTROL_LEFT | Left control |
| MOD_SHIFT_LEFT | Left shift |
| MOD_ALT_LEFT | Left alt |
| MOD_GUI_LEFT | Left Windows key |
| MOD_CONTROL_RIGHT | Right control |
| MOD_SHIFT_RIGHT | Right shift |
| MOD_ALT_RIGHT | Right alt |
| MOD_GUI_RIGHT | Right Windows key |
| KEY_ENTER | Enter |
| KEY_ESCAPE | Escape |
| KEY_CAPSLOCK | Capslock |

```
DigiKeyboard.sendKeyStroke(CODE);
```

ANNOYING THINGS

| Key wanted | Key requested to be printed in code |
|------------|-------------------------------------|
| @ | " |
| " | @ |



| | | | | | | | | | | | | | |
|-----------|---------|-----|---|----|---|---|---|---|---|---|--------|---------|-----------|
| ~ | ! | " | £ | \$ | % | ^ | & | * | (|) | - | = | Backspace |
| Tab | Q | W | E | R | T | Y | U | I | O | P | { | } | Enter |
| Caps Lock | A | S | D | F | G | H | J | K | L | : | @ | ~ | |
| Shift | | Z | X | C | V | B | N | M | < | > | ? | Shift | |
| Ctrl | Win Key | Alt | | | | | | | | | Alt Gr | Win Key | Menu Ctrl |

| | | | | | | | | | | | | | |
|-----------|---------|-----|---|----|---|---|---|---|---|---|-----|---------|-----------|
| ~ | ! | @ | # | \$ | % | ^ | & | * | (|) | - | = | Backspace |
| Tab | Q | W | E | R | T | Y | U | I | O | P | { | } | |
| Caps Lock | A | S | D | F | G | H | J | K | L | : | " | Enter | |
| Shift | | Z | X | C | V | B | N | M | < | > | ? | Shift | |
| Ctrl | Win Key | Alt | | | | | | | | | Alt | Win Key | Menu Ctrl |


ANNOYING THINGS

```
#define KEY_Delete 76
```

https://www.usb.org/sites/default/files/documents/hut1_12v2.pdf

| | | | | | | | |
|----|----|-----------------------|-----|---|---|---|-----------|
| 60 | 3C | Keyboard F3 | 114 | ✓ | ✓ | ✓ | 4/101/104 |
| 61 | 3D | Keyboard F4 | 115 | ✓ | ✓ | ✓ | 4/101/104 |
| 62 | 3E | Keyboard F5 | 116 | ✓ | ✓ | ✓ | 4/101/104 |
| 63 | 3F | Keyboard F6 | 117 | ✓ | ✓ | ✓ | 4/101/104 |
| 64 | 40 | Keyboard F7 | 118 | ✓ | ✓ | ✓ | 4/101/104 |
| 65 | 41 | Keyboard F8 | 119 | ✓ | ✓ | ✓ | 4/101/104 |
| 66 | 42 | Keyboard F9 | 120 | ✓ | ✓ | ✓ | 4/101/104 |
| 67 | 43 | Keyboard F10 | 121 | ✓ | ✓ | ✓ | 4/101/104 |
| 68 | 44 | Keyboard F11 | 122 | ✓ | ✓ | ✓ | 101/104 |
| 69 | 45 | Keyboard F12 | 123 | ✓ | ✓ | ✓ | 101/104 |
| 70 | 46 | Keyboard PrintScreen1 | 124 | ✓ | ✓ | ✓ | 101/104 |

CONVERTING

digiQuack 
by CedArctic

Convert DuckyScript scripts (of the hak5 USB Rubber Ducky) to Digispark scripts that you can use with the 1\$ bad USB.

Why DuckyScript and why Digispark? It's easy! DuckyScript is simple and easy to learn and has become a standard in the BadUSB and pentesting community. Digispark is one of the cheapest and most easily accessible bad USBs available. Combine the two using digiQuack and you have a vast arsenal of ready to run scripts on a cheap and fun to use bad USB!

Want to convert DuckyScript to Python programs? Check out [ducky2python!](#)

Enter DuckyScript to convert...

Convert

Converted Digispark script will appear here. Paste it into the Arduino IDE to load it onto your Digispark.

Payload Library for the USB Rubber Ducky by Hak5

This repository contains payloads, extensions and languages for the Hak5 USB Rubber Ducky. Community developed payloads are listed and developers are encouraged to create pull requests to make changes to or submit new payloads.

<https://github.com/hak5/usbrubberducky-payloads>

<https://ducktoolkit.com/userscripts>


<https://cedarctic.github.io/digiQuack/>







EXAMPLES



MATRIX SCRIPT
(matrix_script.txt)



RICK ROLL + WINDOWS UPDATE
(prank_script.txt)





RESOURCES



Go to: https://github.com/CyberSophi/Rubber_Goose

Contains code + Powerpoint



03

✧ MISCHIEVOUS ✧ ACTIVITIES

Being too mischievous...

If you use the tool against your friends without their knowledge or consent, you are essentially hacking into their computer system, which is illegal and can result in serious legal consequences.

✦ Please don't steal hacksoc's
equipment <3 ✦

If you would like to take the Arduino board home... Please talk to Tristan ☺

Costs ~£2

The background is black and filled with several four-pointed stars in pink, green, orange, and blue, scattered across the frame.

THANKS!

@CyberSophi