

Hacking USB - USB Pico Ducky



Documentation & Guide

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1 App

1.1 What is the USB Pico Ducky

The USB Pico Ducky is a Hacking USB. The physical device is a Raspberry Pi Pico. A Hacking USB is a device that fools a computer into thinking it is an external input device such as a keyboard, this means that the computer is fooled into thinking that the user is typing while the usb is the one inputting keystrokes. Ask yourself, what can I do using an input device (e.g. Keyboard)? Whatever you can do using an inputer peripheral, you can do using USB Pico Ducky. If you want to, as mentioned in section 4.3, you can turn the hacking mode off and program the Raspberry Pi Pico as a normal microcontroller.


This Application is an IDE (Integrated Development Environment) for Duckyscript. Duckyscript is a simple scripting language made by the company Hak5, originally known for the USB Rubber Ducky, which costs around \$130 CAD (plus tax & fees). Even though the USB Rubber Ducky is more than double the price, the USB Rubber Ducky doesn't come with an IDE while the USB Pico Ducky does.

This might seem too good to be true. but, there is one main difference, it's that only Duckyscript 1.0 is supported on a USB Pico Ducky while USB Rubber Ducky supports Duckyscript 3.0. This will not affect most users because Duckyscript 3.0 just provides extra keywords but the possibilities are just as endless without them.

1.2 Payloads

Payloads are a file written in duckyscript. Payloads basically have instructions given to the USB so that the USB knows what keystrokes to input.

A USB Rubber Ducky only supports one mode at a time while the USB Pico Ducky supports as many as you wish, you can use the *IMPORT* keyword as specified in section 3.3.6, note that this only executes a different payload in the current payload. it can either execute a payload when connected to a device, or it can be in setup mode where you upload the payload(s) (more details can be found in section 2.1).

Note: The history of files are saved in the history folder. you can recover folders by clicking *Edit*() → *load*, then selecting the file that has the payload name + *_{version}.dd*. The *#* number is the version number. The latest saved value in history will be the largest number.

The history is basically the previous version of the file you just changed. It can save the history of up to 5 files per payload.

Meaning for payload1.dd: payload1_0.dd, payload1_1.dd, payload1_2.dd, payload1_3.dd, payload1_4.dd, payload1_5.dd (5 versions will be saved in history, if you save more than 5 times, the history won't be saved, so don't forget to delete the files in history if you want to be able to recover all your changes. Better yet, use github or another method to backup your files and save your changes)

For example:

payload.dd → payload_0.dd (first change)

payload.dd → payload_#.dd where # is a number (max 5) for the payload name (latest saved changes in order)


Another Example for further clarification:

payload5.dd → payload5_0.dd (first change saved in history)

If there are 5 changes saved in history:


payload5.dd → payload5_5.dd latest saved changes in history)

1.2.1 Deleting payloads

To delete payloads, click *Edit* () → *delete file* on the toolbar at the top. Then select the file(s) you want to delete, then press Open at the button below on the file(s) selector.


When you delete a file, it moves it to the trash bin therefore you can recover files that are accidentally removed.



1.2.2 Create new payloads

To make new payloads, click the () , this will create a new payload. payload names are in incremental order, you may not rename the files because the MicroController knows what payload to call based on the name. The MicroController by itself will only call payload.dd, and if you connect certain wires, it can change between payload to payload4. Click Me for more information on switching between payloads on a

1.3 Saving & Editing

There are 3 methods of saving the program you wrote:

1. You can save anytime by using the **CTRL+S** shortcut.
2. Go to top left corner View/Edit button on the top toolbar: *View* or *Edit* → *Save*
3. Click the Save () Button on the editor toolbar (right below the Edit/View menu)

1. To edit the code, first select a file (.dd) on the side filebar on the left side. If you want to, select the file from a different directory using the load button ()
2. If you successfully selected the duckyscript file, you will be able to view the file contents in the codebox (the place where you type in the code). Now modify/type/paste in the duckyscript 1.0 code of your choice and save it using the steps specified above.
3. Once saved, you can upload it onto the USB Pico Ducky but first, make sure that the USB Pico Ducky is selected then make sure that you selected the target device's Language and OS (Operating System) on the editor toolbar (default: windows—us), if the device isn't plugged in, you may not modify the selected target device's language and OS (Operating System). If it's your first time using or if you changed the name of the USB Pico Ducky, you will need to re-select the path of the USB Pico Ducky (e.g. /computer/Devices/USB Pico Ducky).
4. Now you can click the upload button () while USB Pico Ducky is still plugged in to upload the payload to the microcontroller. More information about uploading payloads can be found in section 2.1

1.4 Shortcuts

There are 9 shortcuts.

Here is what they are and what they do:

- Text Editor Commands
 - ❖ CTRL+SHIFT+W: Select a white theme
 - ❖ CTRL+SHIFT+B: Select a black theme
 - ❖ CTRL+SHIFT+T: Select a custom theme
- Text Editor Commands
 - ❖ CTRL+C: copy selected text
 - ❖ CTRL+V: paste copied text
 - ❖ CTRL+X: cut copied text
 - ❖ CTRL+Q: exit, if the code is modified, will ask to save

❖ CTRL+S: save the modified code


❖ CTRL+S: save the modified code

1.5 Cosmetics

Background	Background of the IDE												
Text	Non-keyword text												
Textbubble	Background of text coding box (the background of the IDE code box)												
Background sidebar	Background color of the file picking sidebar												
Color sidebar	Color of the text of sidebar												
Comment	Colors of comment	REM											
Starting Keywords	Colors of Starting Keywords	DELAY DEFAULT_DELAY REPEAT				STRING DEFAULTDELAY IMPORT				PRINT LED			
F-Keys	Colors of F-Keys	F1 F7	F2 F8	F3 F9	F4 F10	F5 F11	F6 F12						
Shortcut keys	Starting keys for shortcuts	ALT SPACE CAPSLOCK			CTRL ENTER ESC		CONTROL BACKSPACE ESCAPE			SHIFT TAB			
Arrows	Arrowkeys	UP LEFT		UPARROW LEFTARROW			DOWN RIGHT		DOWNARROW RIGHTARROW				
Windows	Windows Button keywords	WINDOWS GUI											
Chars	Colors of single characters	A J S	B K T	C L U	D M V	E N W	F O X	G P Y	H Q Z	I R			
Uncommon	Uncommonly seen keywords	APP DELETE NUMLOCK PRINTSCREEN				MENU END PAGEUP SCROLLLOCK			BREAK HOME PAGEDOWN		PAUSE INSERT		
Numbers	Base 10 numbers (0-9)	0 5	1 6	2 7	3 8	4 9							

1.5.1 Existing Themes

There are 2 already existing themes by default, Light and dark theme. You can access them by

View(left  button) → Themes → White/Black


OR

Or press **CTRL+ALT+B** for **DARK** Theme

and press **CTRL+ALT+W** for **LIGHT** Theme

1.5.2 Custom Themes

To select a custom theme, you can use the shortcut **CTRL+ALT+T** or you can press select it from the menu by hovering mouse on

View(left  button) → Themes → Custom

The custom colors are picked for the colors mentioned in section 1.5.

Here are the steps to make a **NEW** theme:

1. Click on **Input Theme Name** Button on the top middle (the button on the right) and type in the new name. Click **Ok**.
2. Click on the checkbox(es), select the ones you want to change to the same color, on the top menu, click the **RGB Color Picker** button on the middle. Now you can select the new color for the selected checkboxes.
3. Now click the **Save** Button on the left to save.

2 The USB

2.1 Uploading Payloads

First, write the duckyscript program, then save it as specified in section 1.3.

To upload payloads onto the USB Pico Ducky, click the upload button , which is right beside the Operating System Selector popup on the toolbar.

You can upload as many files (.dd) as you want. But only run one at a time.

In duckyscript, it is normally not possible to write a program that uses multiple files at a time, except it is possible in a USB Pico Ducky. You can also switch between the payloads using the white switch on the USB Pico Ducky.

This is useful for when you need different payloads for different OSs. For example, you might want to have a Mac version and a Windows version of

a password brute-forcing payload. This is useful for when you aren't sure about the OS of the target computer. **Not even USB Rubber Ducky comes with this feature**

The valid payload names are: `payload.dd`, `payload1.dd`...

2.2 Execute

2.2.1 Before Execution

Before Execution, first select the target device's OS, then language (in order). Currently Mac supports less languages than Windows does, therefore make sure to select device's OS first

2.2.2 Run Duckyscript Program

To Execute a duckyscript program, insert the USB into a device while in attack mode. Turn on hack mode as specified in section 4.2

2.2.3 Run C/C++/Python Program

To run a C/C++/Python (or any supported language) program. Please refer to section 4.3 to setup the microcontroller.

Since the USB Pico Ducky is a Raspberry Pi Pico MicroController, you can run a C/C++/Python program as you wish as long as the hacking mode is turned off. Please note that the IDE doesn't support these languages. Therefore use a different IDE or text editor of your choosing. The IDE only supports duckyscript.

3 Duckyscript Language

Duckyscript language is a language used in hacking USBs. Hacking USBs pretend to be Peripheral devices such as keyboards. Duckyscript is a simple language that is used in certain microcontrollers to mimic keyboards.

3.1 Keywords

All the keywords:

Here are some keyboard keys supported by All languages

<i>REM</i>	<i>DELAY</i>	<i>STRING</i>	<i>PRINT</i>	<i>DEFAULT_DELAY</i>	
<i>DEFAULTDELAY</i>	<i>LED</i>	<i>REPEAT</i>	<i>IMPORT</i>	<i>ENTER</i>	
<i>F1 – F12</i>	<i>ALT</i>	<i>CTRL</i>	<i>CONTROL</i>	<i>SHIFT</i>	<i>SPACE</i>
<i>BACKSPACE</i>	<i>ESC</i>	<i>ESCAPE</i>	<i>UP</i>	<i>UPARROW</i>	<i>DOWN</i>
<i>DOWNARROW</i>	<i>LEFT</i>	<i>LEFTARROW</i>	<i>RIGHT</i>	<i>RIGHTARROW</i>	
<i>WINDOWS</i>	<i>GUI</i>	<i>A – Z</i>	<i>APP</i>	<i>MENU</i>	
<i>DELETE</i>	<i>END</i>	<i>HOME</i>	<i>INSERT</i>	<i>NUMLOCK</i>	<i>PAGEUP</i>
<i>PAGEDOWN</i>	<i>PRINTSCREEN</i>	<i>SCROLLLOCK</i>	<i>BREAK</i>	<i>PAUSE</i>	

Some of these keywords are the same keyboard key, this website shows which keywords share the same meanings

<https://wiki.spacehuhn.com/wifiduck/usage/duckyscript/>

3.2 Tutorial

As you can see on section 3.1, all these keywords have to be capital. If you type it correctly, the keyword will change color on the IDE (only if it's used at the beginning of a line), this way you can now that you typed it correctly.

as you can see most of these keywords can be found on the keyboard. This is because everything else is just keyboard keys and the function of these keys depend on the OS (Operating System), the type and brand of the device.

Here are the duckyscript commands that aren't keyboard keys	
REM	Stands for 'REMOVE', it's used for commenting code
DELAY	A pause (in milliseconds). Used for when waiting for an interface to catch up with the USB Pico Ducky typing speed
STRING	Types whatever comes after the command
REPEAT	Repeats the previous command N times
PRINT	Prints whatever comes after to python console
IMPORT	Imports and executes another duckyscript file to execute (has to be in the same path/-folder), this functionality doesn't exist in the USB Rubber Ducky but does exist in this USB Pico Ducky.
DEFAULTDELAY DEFAULT_DELAY	Specifies how long (in milliseconds) to wait between each line of command. If not specified, DEFAULTDELAY is 18ms.
LED	Change the state of the LED (on/off)

Keys That Might Be Confusing	
WINDOWS & GUI	The windows button
UP & UPARROW	The up arrow key
DOWN & DOWNARROW	The down arrow key
RIGHT & RIGHTARROW	The right arrow key
LEFT & LEFTARROW	The left arrow key

All the rest of the keywords can be found on a keyboard

Keyboard keys are used for typing and shortcuts that are OS (Operating System) dependant. For example, F-keys (e.g. F1 key) won't work on a phone because there is no such thing as F1 button on a phone, also the function of keys change depending on the OS (Operating System).

Payload examples can be found in section 3.3.

3.3 Examples

3.3.1 Comment (REM)

```
1 REM this is a comment
```

Figure 1: Comment Example

This code shows an example on how to comment, note that REM is one line comment. The USB Pico Ducky only supports Duckyscript 1.0 which doesn't have Multi-line comments.

3.3.2 DELAY

```
1 REM delay by 500 miliseconds before locking windows pc (opens
  lockscreen)
2 DELAY 500
3 WINDOWS L
4 REM in the code above, windows takes the L (like always,
  nearly all viruses and attacks target windows)
```

Figure 2: Delay Example

In the code above, the payload is delayed by 500ms (delayed so that the device is ready to type). the WINDOWS+L Button is pressed which is the shortcut to the lockscreen on windows

3.3.3 STRING

```
1 REM delay by 100 milliseconds before starting a windows  
  powershell  
2 DELAY 100  
3 GUI R  
4 STRING powershell  
5 ENTER
```

Figure 3: STRING Example

This code delays by a 100ms, presses WINDOWS+R Shortcut, types in powershell, presses enter button.

3.3.4 REPEAT

```
1 REM delay by 100 milliseconds before starting 10 new google  
  tabs  
2 DELAY 100  
3 WINDOWS S  
4 STRING chrome  
5 ENTER  
6 CTRL T  
7 REPEAT 10
```

Figure 4: REPEAT Example

In this code, there is an initial delay of 100ms when the execution starts, then the WINDOWS+S button is pressed which opens search bar, enters chrome, presses enter, than types CTRL+T (new google tab), repeats the last command 10 times. It basically presses CTRL+T 10 times which opens 10 tabs

3.3.5 PRINT

```
1 REM delays by 300 milliseconds, and opens 10 google tabs, then  
  prints successfully opened 10 tabs  
2 DELAY 300  
3 WINDOWS S  
4 STRING chrome  
5 ENTER  
6 CTRL T  
7 REPEAT 10  
8 PRINT Successfully opened 10 tabs
```

Figure 5: PRINT Example

In this code, there is an initial delay of 100ms when the execution starts, then the WINDOWS+S button is pressed which opens search bar, enters google, presses enter, than types CTRL+T (new google tab), repeats the last command 10 times. It basically presses CTRL+T 10 times which opens 10 tabs. Then once it's done, it types Successfully opened 10 tabs to a python console.

3.3.6 IMPORT

For example, there are 2 files, payload.dd and payload2.dd (there can be as many as you wish)

```
1 REM delay by 300ms, then paste the last copied thing onto a
  notepad
2 DELAY 300
3 WINDOWS R
4 STRING notepad.exe
5 ENTER
6 CTRL V
7 PRINT Successfully printed the last thing that was copied
  onto a notepad
```

Figure 6: payload.dd

```
1 REM wait 500ms, import payload.dd (import keyword executes
  the file specified)
2 DELAY 500
3 IMPORT payload.dd
4
5 REM save file and close all notepad files
6 DELAY 100
7 CTRL S
8 CTRL SHIFT W
```

Figure 7: payload2.dd

in figure 6, there is an initial delay of 300 milliseconds, then presses WIN-DOWS+R (opens run box), then types notepad.exe, presses enter. Now that notepad is opened, presses CTRL V (types the last copied thing in the clipboard), then prints that it 'successfully printed the last copied thing onto a notepad' into a python console.

in figure 7, there is an initial delay of 500ms, then imports and executes the content of payload.dd. Then, delays by 100ms, presses CTRL+S (save) and CTRL+SHIFT+W (exit)

3.3.7 DEFAULTDELAY & DEFAULT_DELAY

```
1 REM set default delay to 250, this will cause all commands  
   being executed once every 250ms  
2 DEFAULTDELAY 100  
3 WINDOWS R  
4 STRING notepad.exe  
5 ENTER  
6 STRING Every command is being executed after a delay of 250ms
```

Figure 8: DEFAULTDELAY Example

in the code above (figure 8), there is no initial delay, but the default delay is moved to 100ms, which means that every command will delay by 100ms before execution(so that the device can catch up), then presses WINDOWS+R (opens run box), then type notepad.exe, presses enter.

Note that the default delay only applies to one file. Therefore if you import a different file, the custom default_delay won't apply to the imported file

3.3.8 LED

```
1 REM wait 500ms, then update LED status once successfully  
   installed mimikatz virus from the web  
2 DELAY 500  
3 WINDOWS S  
4 STRING chrome  
5 ENTER  
6 STRING https://github.com/gentilkiwi/mimikatz/releases/  
   download/2.2.0-20220919/mimikatz_trunk.zip  
7 ENTER  
8 DELAY 300  
9  
10 REM once the virus downloads, turn on the LED of USB Pico  
   Ducky  
11 LED
```

Figure 9: LED Example

in the code above (figure 9), there is an initial delay of 500ms. Then the WINDOWS+L button is pressed (run box), chrome is typed into the run box, then ENTER is pressed. Now that google chrome is open, this link is opened:

https://github.com/gentilkiwi/mimikatz/releases/download/2.2.0-20220919/mimikatz_trunk.zip which downloads the zip file of the mimikatz virus.


4 Setup

4.1 Reset

4.1.1 When to Reset USB

Resetting the USB turns hacking mode off. More information can be found in section 4.3. You can also reset back to the USB Pico Ducky (hacking mode) as specified in more detail in section 4.2.

4.1.2 How to Reset USB

You can reset the USB at any time, all it takes is the click of a simple button in the Duckyscript IDE (on the toolbar). The button is . This button is at the most right on the toolbar. After clicking this button, a popup window will come up. Click the button on the middle (Select USB Pico Ducky Path), then select the path of your USB pico ducky. Now Another button will popup, if you entered the correct path, select the new button (Enable/Disable hacking mode) on the popup.

4.2 Hack Mode On

4.3 Hack Mode Off

When the USB Pico Ducky hack mode is turned off, you can use the micro-controller using C/C++/MicroPython (resources in section 4.3.1).

4.3.1 C/C++/MicroPython Language

Here are some helpful links on setting up C/C++/Python for a Raspberry Pi Pico

Windows Tutorials:

1. [C Language](#)
2. [C++ Language](#)
3. [MicroPython Langauge](#)

Mac/Linux Tutorials:

1. C Language:
 - [Tutorial in Linux](#)
 - [Tutorial in Mac](#)

2. C++ Language:

- [Tutorial in Linux](#)
- [Tutorial in Mac](#)

3. MicroPython Language:

- [Tutorial in Linux](#)
- [Tutorial in Mac](#)

Other Helpful Sources:

- [MicroPython Tutorial](#)
- [Raspberry Pi Pico Documentation for C/C++](#)

4.3.2 Upload

The Duckyscript IDE doesn't have C/C++ support at this time. To use C/C++ on the USB Pico Ducky. First, reset the USB as mentioned in section 4.1.2, then use a different IDE/texteditor to write a C/C++ program. You can reserach for more information in section 4.3.1.