# MANUAL WABBITEMU

GIP - English

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Schooljaar: 2021-2022



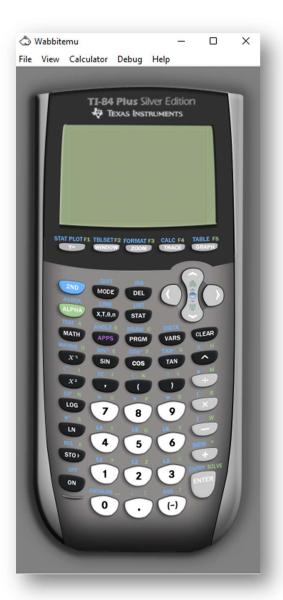
# WabbitFmu

WabbitEmu is a neat tool that allows you to use any Texas Instruments calculator as software on your computer. This way you don't have to bother carrying around your heavy TI calculator everywhere.

For this guide, I'll use the **TI-84 Plus** (Silver Edition).

A calculator with many features, it allows you to solve complicated math problems that require items such as matrices, logarithms, trigonometric functions and various tools.

The machine also comes with a built-in graph system which allows you to visualize mathematical results.



# Adding WabbitEmu to your personal computer

The process of installing WabbitEmu is very simple but can seem complicated to many as we need to "combine" separate files to form one.

#### 1. Download the necessary files from the web.

As WabbitEmu is a paid service, I cannot provide any link to the download files. Your school will provide the three files you need to configure the emulator.

- GRM.rom,
- TI84Plus\_OS255.8Xu,
- Wabbitemu.exe.

It is recommended that you put these 3 files inside a new folder.

# 2. Open 'Wabbitemu.exe'.

As seen in *Figure 1.1*, I've put all 3 files in the same folder, double-click on Wabbitemu.exe to start the configuration process.

(Note: if you had already installed WabbitEmu before on this device, on the screen that pops up, click "Help" > "Re-run Setup Wizard".)

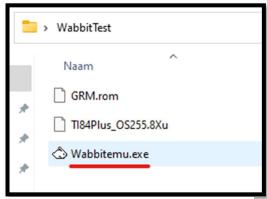


Figure 1.1

# 3. Select the third option.

As seen in *Figure 1.2*, you get to choose between different options, select 'Create a ROM image using open-source software'.

(If you already have a configured ROM Image, you can also select the first option and load the emulator like that.)

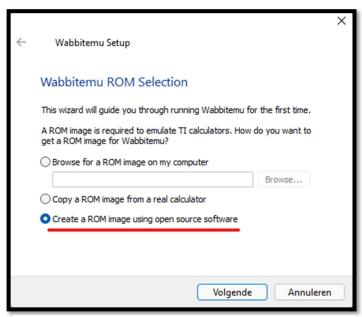


Figure 1.2

#### 4. Select TI-84 Plus SE.

As you can see, there's many different TI calculators that you can use on WabbitEmu. We'll use TI-84 Plus SE (Silver Edition).

Calculator Type			
What type of calculator would you like to emulate?			
Model			
○ TI-73	◯ TI-83 Plus SE	○ TI-85	
○ TI-82	◯ TI-84 Plus	○ TI-86	
○ TI-83	TI-84 Plus SE		
◯ TI-83 Plus	TI-84 Plus C SE		
			_

Figure 1.3

#### 5. Pick 'TI84Plus\_OS255.8XU'.

We've already downloaded the OS file for this machine earlier in this guide, click "browse" on the second option and select prementioned file.



Figure 1.4

# 6. Click "Voltooien", search for GRM.rom and replace it.

The final step to complete the installation is to click "Voltooien" (or "Finish"), you'll be prompted to create a ROM image, search for 'GRM.rom' (the image we have downloaded before), select it and replace it.

NOTE: additionally, you can also create a new ROM image without replacing the other one by placing it at another location and/or (re)naming it.

**NOTE:** Once you've got WabbitEmu to work, you CANNOT move the "Wabbitemu.exe" file. Instead, right-click the file and create a shortcut. You can move that shortcut to anywhere on your computer (e.g., your desktop)!

# The Calculator -1. Simple Calculations

Before we start doing anything crazy, let's start off by doing some simple calculations to get you going with WabbitEmu.

### 1. Adding, subtracting, multiplying and dividing.

Simple, you type in some random numbers and make calculations with the symbols of *Figure 2.1*.

Then, logically, you solve them by pressing the "Enter" button on the bottom right corner of the calculator (shown in *Figure 2.2*).





Figure 2.1

#### 2. Working with parentheses, powers, and square roots.

Working with parentheses is obvious, use the two buttons from *Figure 2.3*. Make sure to always close with parentheses once you opened them. The calculator will give an error if you forget to close parentheses in a complicated calculation.



Figure 2.3

Powers are just as easy. Type a number and add an exponent by clicking the button shown in *Figure 2.4*. In *Figure 2.5* you see an example where "12" is the base number and "3" the exponent.





Figure 2.4

Figure 2.5

Square roots are a bit more complicated, as we have to use the second-key. Press "2ND" on the top left calculator (*Figure 2.6*); then press "X2" (*Figure 2.7*) to add a square root. An example of the output with base "7" is shown in Figure 2.8.







Figure 2.6

Figure 2.8

#### 3. Using sine, cosine and tangent.

Using these is easy. Just click the "SIN", "COS" or "TAN" symbols on your calculator (Figure 2.9) and add a base number. Make sure to always close the parentheses using the symbols from Figure 2.3. Here's an example of all three, with a base integer of "5" each time (Figure 2.10).



Figure 2.9

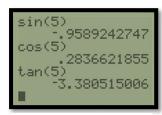


Figure 2.10