

# Manual name

*V0.0.1\_English*

## Revision history

Version	Description	Name (githubname)
V0.0.1	initial release <ul style="list-style-type: none"> <li>Created a layout and added the first chapters</li> </ul>	Peter (traffic_light)
Total working time: 02:09:59		

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# 1 Introduction

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Thank you for downloading this manual. We hope that this manual will help you to understand things like GIT, compiling your firmware, change you're marlin configuration and many more.

With this first release I hope that you guys understand what I'm trying to teach you. When you don't understand it, please send me a message with some hints and tips to make this manual better.

I hope you guys find this manual useful. Let me know what you think!

## 1.1 How to read this manual

This is just a short how to for now. This will be changed in the next release. This release is only for the layout and some text to see if you guys understand my writing style.

Okay. Now the how to read. In this manual you will sometimes find words you think: What is this word. To explain this, the first time this word will be found it looks like this: *difficult word*<sup>[romaine number]</sup>. Where [romaine number] indicates the location in the reference chapter.

At the end of this manual there is a reference for all these words, see *chapter 5 References on page 9*. There is a small explanation what it means. When pressing the word you will be brought to this page. When you click on the name (example: *difficult word*) at the reference page, it brings you back to where you came from.

## 1.2 Give feedback or submit idea's

To make it easy to see all feedback and idea's what should be in the manual you should use the issue function on GitHub.

See chapter *2.3 Create issues on GitHub on page 6* for an explanation how to create an issue.

When creating an issue you should use the right tag.

- For new idea's use the idea tag
- For feedback use the feedback tag

Thank you in advance!

## 2 Using GIT

In this chapter you will read how to download a [GIT<sup>1</sup> repo<sup>11</sup>](#), clone it to your computer and keep it updated. Some basic GIT commands and tools will also be explained.

In *chapter 3 Compiling your firmware on page 7* you can read how to compile the firmware (which you want to download after my explanation perhaps)

### 2.1 Download an repo from git via a website

Downloading the complete git repo knows two way's. One is the website and the other one is through a clone.

This chapter describes the way to do it via the website.

For cloning a repo and the benefits of doing this, see *chapter 2.2 Clone and update a repo on page 6*.

**Note:** The screenshots that are used in this manual are from GitHub. Other git websites may locate the things differently.

#### 2.1.1 Download the complete repo

When you want to download an repo you have to be in the root of the project. In the root of the folder there is this a green button above the repo content on the right.

Pressing this button will open the menu to download the repo (see *Figure 1 - Download menu git repo on page 5*)

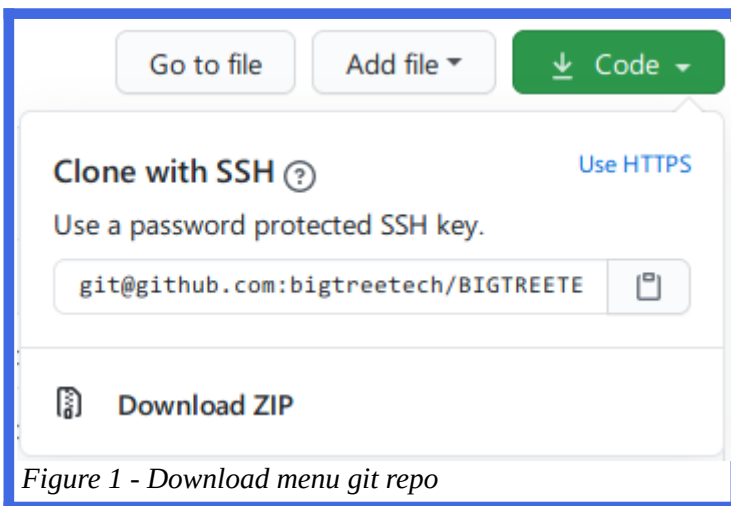


Figure 1 - Download menu git repo

In this menu, press the button *Download zip* to download the complete repo.

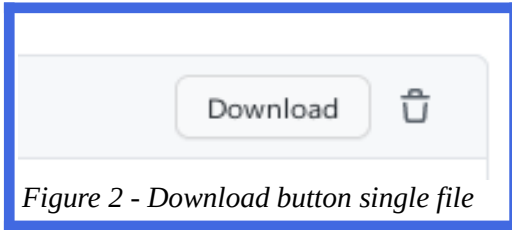
#### 2.1.2 Downloading a folder

Downloading a specific folder from git is not possible. The only way to do this is downloading the complete repro. See *chapter 2.1.1 Download the complete repo on page 5*.

### 2.1.3 Download a single file

When you need just a single file to download browse to the file via git. You can do this by clicking the correct folders. When you've found the correct file, click on its name. Now you see the raw file.

There is a preview of the file. This only occurs when this is a known text, image or PDF file recognized by GitHub. When this is neither of them it will display the text "view raw".



To download the file, press the button Download in the upper right corner.

See **Figure 2 - Download button single file** on page 5

## 2.2 Clone and update a repo

Cloning a repo from git is a little bit tougher than just downloading it from GitHub. But when you know how to do this it's pretty useful and can help you update your firmware without changing the default config.ini to your needs. This chapter will explain how to do it and in the end the benefits.

### 2.2.1 Clone the git

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### 2.2.2 Update your clone

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### 2.2.3 The benefits

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## 2.3 Create issues on GitHub

When you noticed a bug, have a question or a feature request on a git project, you can use issues. You can also do this for this manual 😊

For making issues on GitHub you need a GitHub account. You can create one for free at GitHub.com. At the <https://github.com> you immediately see a form for creating a GitHub account.

## 3 Compiling your firmware

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When download the new firmware for you mainboard or TFT screen you need to compile it. When it's done compiling it you can update it with the generated .bin file.

To do this you need to have vs code with platform io and the knowledge how to compile the software.

In this chapter this will be explained step by step.

### 3.1 Install vs code and platform io

1. Download VS-code from <https://code.visualstudio.com/>
2. Install it by opening the executable.
3. Install platform IO
4. This was it for now. I've got to switch to windows for it...

## 4 FAQ

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In this FAQ you can find all Frequently Asked Questions on facebook and GitHub. This FAQ is specifically made for bigtreotech and marlin related questions.

### 4.1 BTT's TFT screen related questions

**Q When rotating the rotary encoder the print speed changes. How to solve this?**

Answer: This problem happens because the encoder is hard wired to mainboard. So every turn and click will be received by Marlin. When Marlin is in the home screen it will change the print speed according to the turns of the rotatory encoder movement.

At this moment there is no good solution for it. There is only a dirty fix. See issue [#915](#) for the fix.

**WARNING:** When you click the wheel/ rotate the wheel this can bring unsuspected behavior, depending to the screen Marlin is in. Use with care!

**Q Switching to Marlin mode is giving me a blue screen. What to do?**

Answer: Check your ribbon cable connections to the TFT screen.

When this problem doesn't occur when first booting in Marlin mode, you should try rotating the encoder wheel. This way Marlin is forced to redraw the screen.



## 5 References

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On the next page will be all references made in the main text. These reference try to make clear what a certain word means. With reading this references it could become easier to understand the main text.

Is there a word you don't understand? Let us know

**I GIT**

This is a program that can manage big projects for you. There are many websites where you can host all your git-files. (GitHub, GitLab, bitbucket and many more).

For more information about git: <https://en.wikipedia.org/wiki/Git>

**II Repo**

This is just the shortened version of repository. In a repository you can find all the files needed.