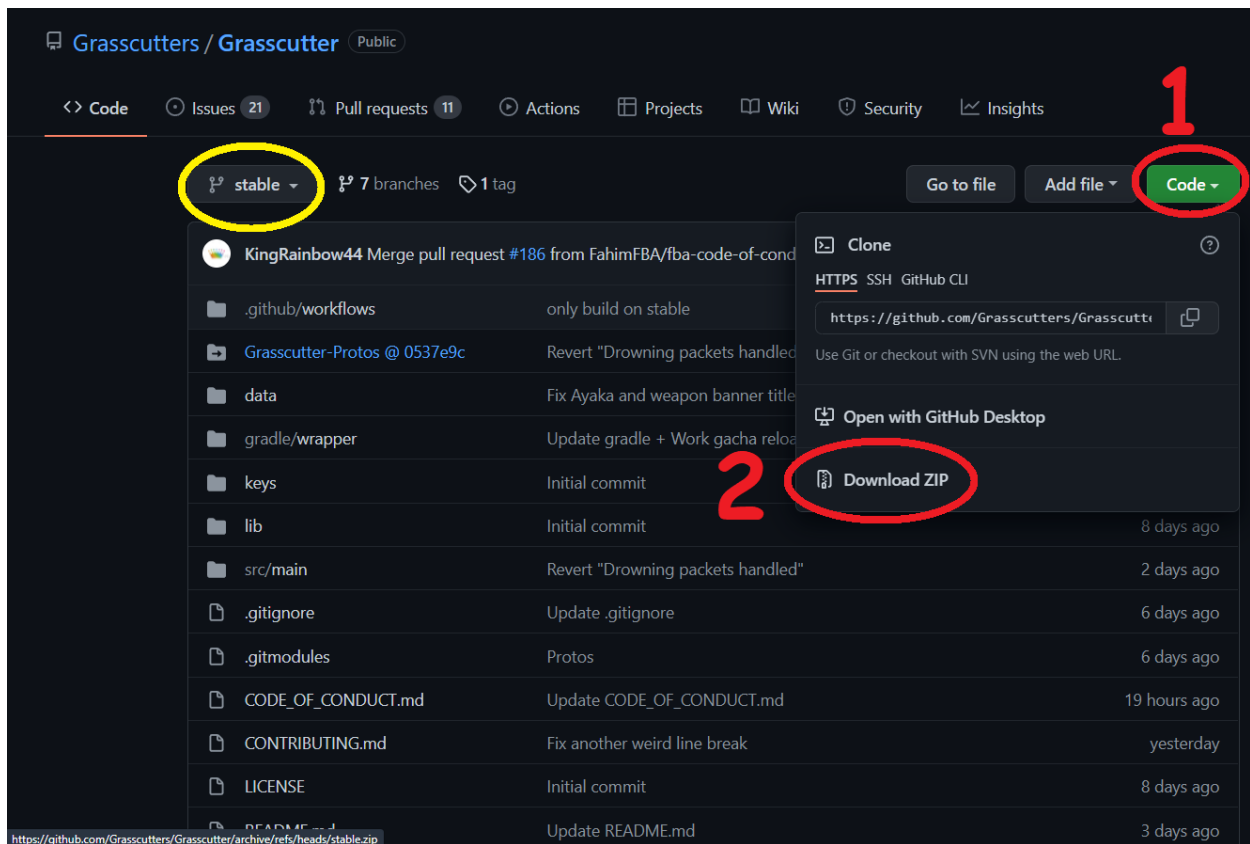


## How to Setup/install Grasscutter PS and play on it (Stable Branch) (Windows only)

A Simplified guide for noobs created by a noob  
(2.6 genshin version)  
Created 4/25/2022

**NOTE :** You probably will encounter some problems doing this so if you don't have any knowledge about PC software stuffs like cmd , java , creating a batch file, opening and extracting zip files. then i don't recommend for you to setup this Private Server..

1. Download and Install the following Prerequisites
  - **JDK8u202** : <https://mirrors.huaweicloud.com/java/jdk/8u202-b08/jdk-8u202-windows-x64.exe> (just keep clicking next)
  - **MongoDB** : <https://www.mongodb.com/try/download/community> (Just click Next next and no need to change anything)
2. Create a Github Account and Login
3. Download the necessary files to build and run the Grasscutter PS.
  - a. Download the whole stable branch of Grasscutter. (Make sure you're on the stable branch highlighted by the yellow circle) : <https://github.com/Grasscutters/Grasscutter>



- b. Download the latest stable **grasscutter.jar** by going to the **Actions** tab, filter the branch to stable and click on the top latest result with a green checkmark. (You will download it as a zip file but inside of it is the grasscutter.jar)

The screenshot shows the 'All workflows' page in GitHub Actions. A search filter 'branch:stable' is applied. A list of 7 workflow run results is shown. A red arrow labeled '3' points to the list with the text 'Download the latest on the list'. A red circle labeled '1' highlights the 'Branch' dropdown menu, which is open and shows a list of branches. A red circle labeled '2' highlights the 'stable' branch in the dropdown menu.

3 → Download the latest on the list

1 Branch

2 stable

The screenshot shows a specific workflow run for 'Update issue templates Build #65'. The status is 'Success'. The duration is '2m 0s'. The artifacts section shows a single artifact named 'Grasscutter' with a size of '21.2 MB'. The artifact is circled in red.

Update issue templates Build #65

Summary

Jobs

Build-Server-Jar

Triggered via push 1 hour ago

Melody pushed 285426e stable

Status Success

Total duration 2m 0s

Artifacts 1

build.yml

on: push

Build-Server-Jar 1m 46s

Artifacts

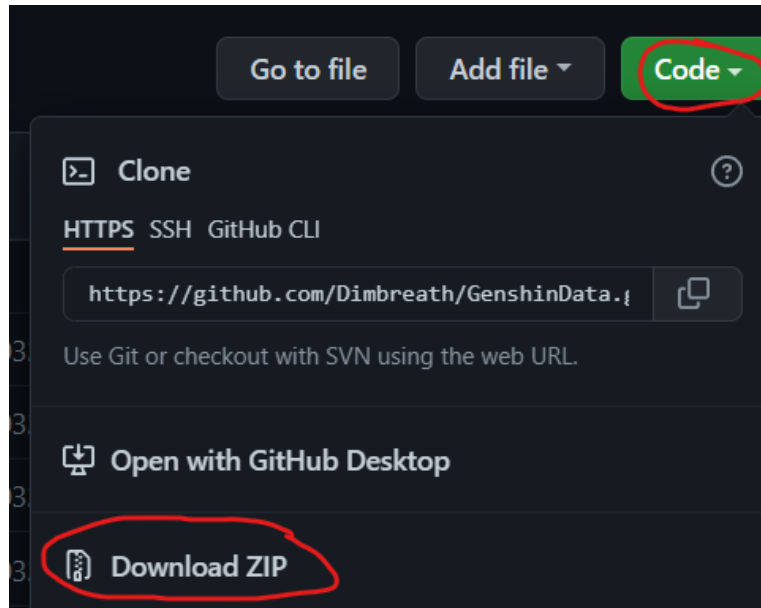
Produced during runtime

Name Size






Grasscutter 21.2 MB

- c. Download the GenshinData (GenshinData-master.zip) :  
<https://github.com/Dimbreath/GenshinData>
- d. Download the gi-bin-output (gi-bin-output-master.zip) :  
<https://github.com/radioegor146/gi-bin-output>
- e. Download Grasscutter-Protos (Grasscutter-Protos-main.zip) :  
<https://github.com/Grasscutters/Grasscutter-Protos>

- To download these files :



4. Move the zip files you downloaded to a empty folder and you should have the following zip files in this picture :

This PC > Local Disk (D:) > GRASS > New folder				
Name	Date modified	Type	Size	
 GenshinData-master.zip	4/22/2022 5:52 AM	WinRAR ZIP archive	201,972 KB	
 gi-bin-output-master.zip	4/22/2022 7:29 AM	WinRAR ZIP archive	66,689 KB	
 Grasscutter.zip	4/24/2022 11:10 AM	WinRAR ZIP archive	19,981 KB	
 Grasscutter-Protos-main.zip	4/24/2022 11:38 AM	WinRAR ZIP archive	146 KB	
 Grasscutter-stable.zip	4/25/2022 9:18 AM	WinRAR ZIP archive	4,143 KB	

5. Create a new folder named “**GrasscutterPS**” and extract the following files from the corresponding zip files to the **GrasscutterPS** folder you just created.

This PC > Local Disk (D:) > GRASS > New folder

Name	Date modified	Type	Size
GrasscutterPS	4/25/2022 5:41 PM	File folder	
GenshinData-master.zip	4/22/2022 5:52 AM	WinRAR ZIP archive	201,972 KB
gi-bin-output-master.zip	4/22/2022 7:29 AM	WinRAR ZIP archive	66,689 KB
Grasscutter.zip	4/24/2022 11:10 AM	WinRAR ZIP archive	19,981 KB
Grasscutter-Protos-main.zip	4/24/2022 11:38 AM	WinRAR ZIP archive	146 KB
Grasscutter-stable.zip	4/25/2022 9:18 AM	WinRAR ZIP archive	4,143 KB

- Open **Grasscutter.zip** and extract the **grasscutter.jar** to **GrasscutterPS** folder
- Open **Grasscutter-Protos-main.zip**, find and extract the **proto** folder to the **GrasscutterPS** folder
- Open **Grasscutter-stable.zip**, find and extract the following files to **GrasscutterPS** folder :  
“**data, keys, keystore.p12**”

Name	Date modified
data	4/25/2022 1:20 AM
keys	4/25/2022 1:20 AM
proto	4/23/2022 5:51 PM
grasscutter.jar	4/23/2022 11:39 AM
keystore.p12	4/25/2022 1:20 AM

6. Create a new folder inside of **GrasscutterPS** named “**resources**”

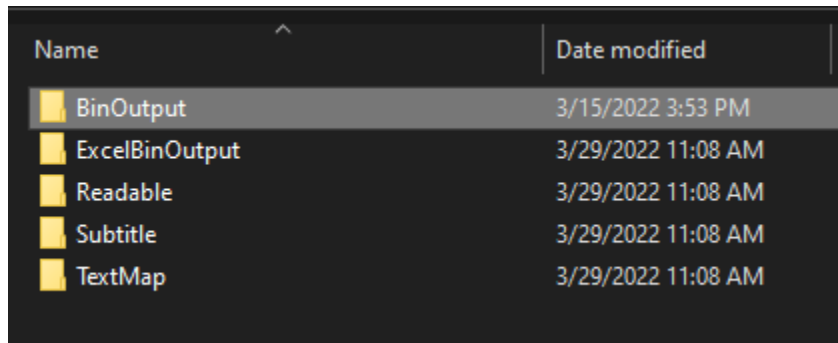
This PC > Local Disk (D:) > GRASS > New folder > GrasscutterPS

Name	Date modified
data	4/25/2022 1:20 AM
keys	4/25/2022 1:20 AM
proto	4/23/2022 5:51 PM
resources	4/25/2022 5:56 PM
grasscutter.jar	4/23/2022 11:39 AM
keystore.p12	4/25/2022 1:20 AM

Find and extract the following files from the corresponding zip files to the **resources** folder you just created

- Open **GenshinData-master.zip**, find and extract the folders :  
**Textmap, Subtitle, Readable, ExcelBinOutput**
- Open **gi-bin-output-master.zip**, open the “**2.5.52**” folder and inside of it find the  
“**\_BinOutput**” folder and extract it.

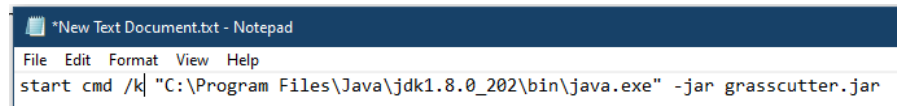
- c. Rename the folder “\_BinOutput” to “BinOutput” and by now the inside of your **resources** folder should like like this



Name	Date modified
BinOutput	3/15/2022 3:53 PM
ExcelBinOutput	3/29/2022 11:08 AM
Readable	3/29/2022 11:08 AM
Subtitle	3/29/2022 11:08 AM
TextMap	3/29/2022 11:08 AM

7. Create a new Text Document inside of **GrasscutterPS** folder and open it with notepad or notepad++

- a. Copy/Paste this following code to the notepad:

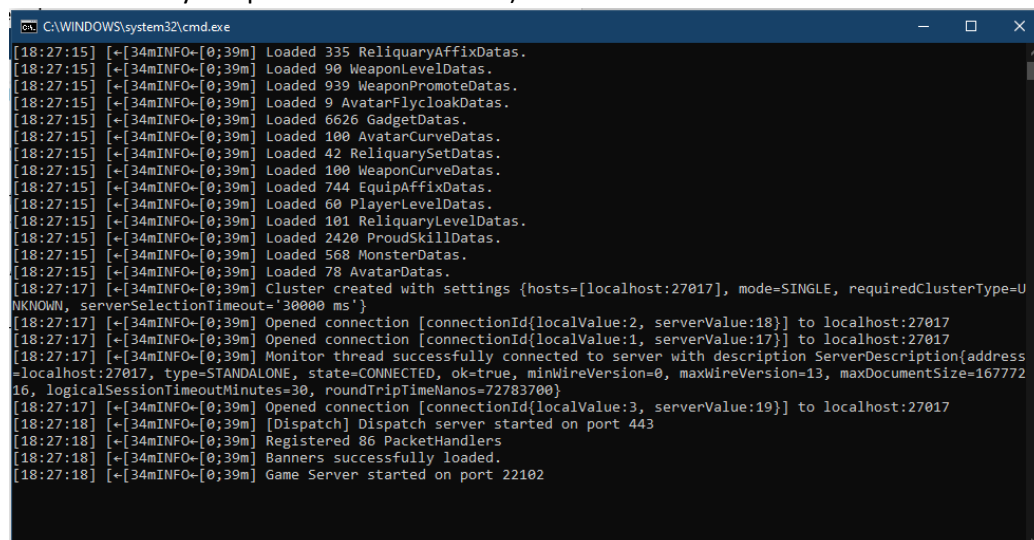


```
File Edit Format View Help
start cmd /k "C:\Program Files\Java\jdk1.8.0_202\bin\java.exe" -jar grasscutter.jar
```

**“start cmd /k "C:\Program Files\Java\jdk1.8.0\_202\bin\java.exe" -jar grasscutter.jar”**

- b. Click **file > Save as >** and name it **“run.bat”** and click **Save**. (Make sure you saved it on the **GrasscutterPS** folder)

8. Now you can now run grasscutter.jar by opening the **run.bat** and it should open the grasscutter CMD console. (Ignore the **“Relic properties are missing weights!”** error in the console. You can fix it later by going to the **COMMONLY ASKED QUESTIONS** section)  
(Go to **COMMONLY ASKED QUESTIONS** if you instead see a **“Place a copy of GenshinData”** in the console when you opened the **run.bat** file)



```
C:\WINDOWS\system32\cmd.exe
[18:27:15] [34mINFO-[0;39m] Loaded 335 ReliquaryAffixDatas.
[18:27:15] [34mINFO-[0;39m] Loaded 90 WeaponLevelDatas.
[18:27:15] [34mINFO-[0;39m] Loaded 939 WeaponPromoteDatas.
[18:27:15] [34mINFO-[0;39m] Loaded 9 AvatarFlycloakDatas.
[18:27:15] [34mINFO-[0;39m] Loaded 6626 GadgetDatas.
[18:27:15] [34mINFO-[0;39m] Loaded 100 AvatarCurveDatas.
[18:27:15] [34mINFO-[0;39m] Loaded 42 ReliquarySetDatas.
[18:27:15] [34mINFO-[0;39m] Loaded 100 WeaponCurveDatas.
[18:27:15] [34mINFO-[0;39m] Loaded 744 EquipAffixDatas.
[18:27:15] [34mINFO-[0;39m] Loaded 60 PlayerLevelDatas.
[18:27:15] [34mINFO-[0;39m] Loaded 101 ReliquaryLevelDatas.
[18:27:15] [34mINFO-[0;39m] Loaded 2420 ProudSkillDatas.
[18:27:15] [34mINFO-[0;39m] Loaded 568 MonsterDatas.
[18:27:15] [34mINFO-[0;39m] Loaded 78 AvatarDatas.
[18:27:17] [34mINFO-[0;39m] Cluster created with settings {hosts=[localhost:27017], mode=SINGLE, requiredClusterType=UNKNOWN, serverSelectionTimeout='30000 ms'}
[18:27:17] [34mINFO-[0;39m] Opened connection [connectionId{localValue:2, serverValue:18}] to localhost:27017
[18:27:17] [34mINFO-[0;39m] Opened connection [connectionId{localValue:1, serverValue:17}] to localhost:27017
[18:27:17] [34mINFO-[0;39m] Monitor thread successfully connected to server with description ServerDescription{address=localhost:27017, type=STANDALONE, state=CONNECTED, ok=true, minWireVersion=0, maxWireVersion=13, maxDocumentSize=16777216, logicalSessionTimeoutMinutes=30, roundTripTimeNanos=72783700}
[18:27:17] [34mINFO-[0;39m] Opened connection [connectionId{localValue:3, serverValue:19}] to localhost:27017
[18:27:18] [34mINFO-[0;39m] [Dispatch] Dispatch server started on port 443
[18:27:18] [34mINFO-[0;39m] Registered 86 PacketHandlers
[18:27:18] [34mINFO-[0;39m] Banners successfully loaded.
[18:27:18] [34mINFO-[0;39m] Game Server started on port 22102
```

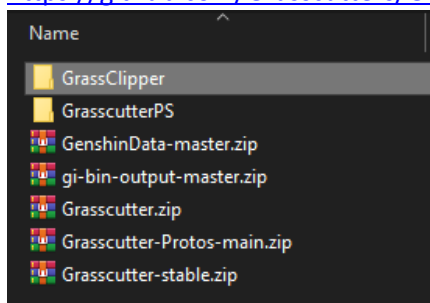
- a. First we need to create an account so we can login to the Private Server.  
To create an account, type “**account create [username] [playerID]**” to the console.

[playerID] means what will be your **UID** in the game.

Here’s an example of me creating an account :

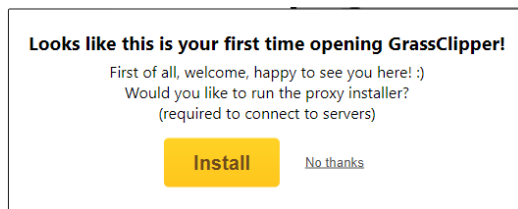
```
[18:27:18] [←[34mINFO←[0;39m] [Dispatch] D
[18:27:18] [←[34mINFO←[0;39m] Registered 8
[18:27:18] [←[34mINFO←[0;39m] Banners succ
[18:27:18] [←[34mINFO←[0;39m] Game Server
account create noob 69
```

9. After you created your account. Download the latest release version of Grassclipper here:  
<https://github.com/Grasscutters/GrassClipper>

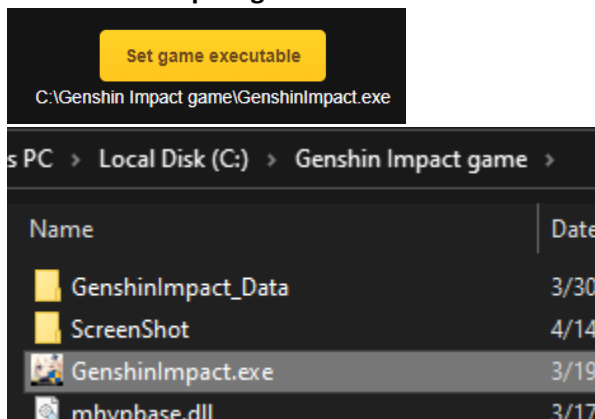


and extract it somewhere (preferably outside of your **GrasscutterPS** folder)

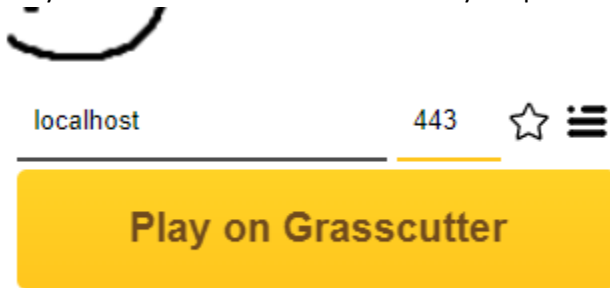
10. Open the **Grassclipper** folder and Run **Grassclipper.exe** and it will ask you to install the proxy, click **Install** and wait for it to finish.



- a. After that Click “**Set Game Executable**” and find and select your **GenshinImpact.exe** by going to the **Genshin Impact** game folder.



b. set your **IP Address** to “localhost” and your port to 443



11. Now you can connect and play to the private server by clicking **Play on Grasscutter** and it will run the game.

In the Login Screen , Enter your username and for the password, just input anything.

FOR TROUBLESHOOTING, GRASSCUTTER COMMANDS ETC.. GO TO THE GITHUB PAGE OF GRASSCUTTER AND READ AND CHECK THE READ.MD :

<https://github.com/Grasscutters/Grasscutter>

WIKI SECTION : <https://github.com/Grasscutters/Grasscutter/wiki>

You can join to the discord server of grasscutter and PLEASE READ THE RULES.

If you get a 502 error, try changing “localhost” in grassclipper to “127.0.0.1”

SCROLLDOWN FOR COMMONLY ASKED QUESTIONS

## COMMONLY ASKED QUESTIONS :

**Q :** When I tried to run the “**run.bat**” file, this shows up :

```
C:\WINDOWS\system32\cmd.exe
[15:21:50] [+ [34mINFO+ [0;39m] Place a copy of 'GenshinData' in the resources folder.
D:\GRASS\grasscutter LATEST STABLE>
```

**A :** Make sure you followed the instructions on **NUMBER 6.** in this guide and **read it carefully**

**Q :** What’s the list of commands? How do I give myself characters, artifacts , weapon , etc..

**A :** type “**help**” in the Grasscutter server cmd and it should give you the list of commands.

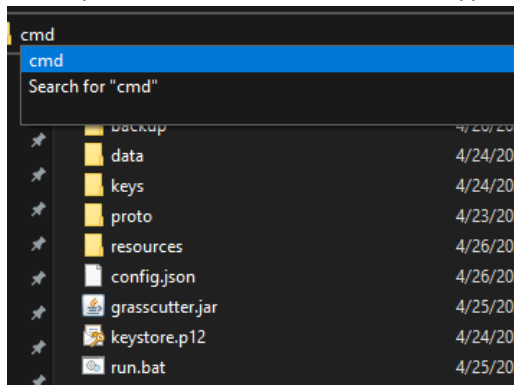
You can type type commands in-game by adding “**Server**” to your chat list and make sure to add a “**!**” to your commands.

**Example :** “ !spawn, !godmode ”

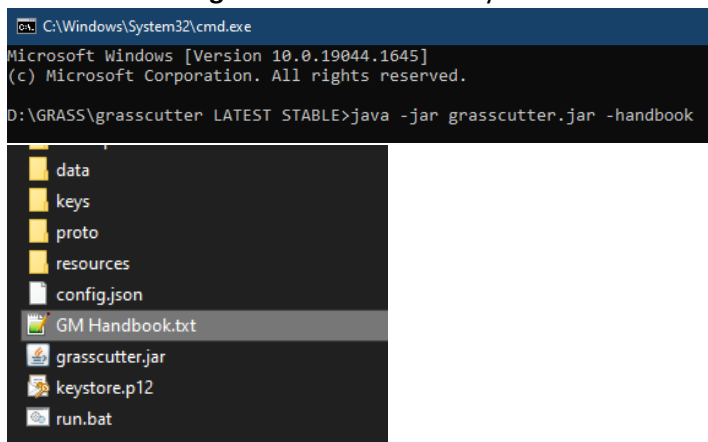
**Q :** Where I can find list of **AvatarID, MonsterID, itemID**?

**A :** You can generate a **GMHandbook.txt** by doing the following:

Go to your **GrasscutterPS** folder and type “**cmd**” in the address bar of the file explorer and hit enter.



Type “**java -jar grasscutter.jar -handbook**” in the console, hit enter and it should say that “**GM Handbook generated!**” and check your **GrasscutterPS** folder for the **GMHandbook.txt**.





**Q :** When I try to give myself a artifact item, there's no stats to it?

OR

“Relic properties are missing weights! Please check your ReliquaryMainPropExcelConfigData or ReliquaryAffixExcelConfigData files in your ExcelBinOutput folder”

**A :** Download the following .json files and put in on your “**resources\ExcelBinOutput**” folder.

<https://github.com/Dimbreath/GenshinData/blob/104c21c6530885e450975b13830639e9ca649799/ExcelBinOutput/ReliquaryMainPropExcelConfigData.json>

<https://github.com/Dimbreath/GenshinData/blob/a92b5842daa911c095f47ef235b2bcd4b388d65a/ExcelBinOutput/ReliquaryAffixExcelConfigData.json>

**IF YOU CAN'T FIND YOUR ISSUE/PROBLEM HERE, MAKE SURE YOU READ THE GUIDE CAREFULLY FIRST AND IF YOU DID, CHECK THE GITHUB README.MD AND THE WIKI.**

**JOIN THE GRASSCUTTER DISCORD IF YOU NEED HELP, READ THE RULES AND ASK ON THE APPROPRIATE CHANNEL PLEASE**

**GRASSCUTTER PROBLEMS/ISSUES, ASK TO THE GRASSCUTTER #SUPPORT CHANNEL**

**GRASSCLIPPER PROBLEMS/ISSUES, ASK TO THE GRASSCLIPPER #SUPPORT CHANNEL**

