# Fuji Manual

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# Contents

1	Cor	hocept
	1.1	Configuration File
		1.1.1 Definition
		1.1.2 Types
	1.2	Module
		1.2.1 Definition
		1.2.2 Properties
		1.2.3 Module Path
		1.2.4 How to enable/disable a module?
	1.3	Job
		1.3.1 Definition
		1.3.2 Cron Expression as Trigger Rule
	1.4	Regex
		1.4.1 Definition
		1.4.2 Reference
	1.5	Placeholder
		1.5.1 Definition
		1.5.2 Example
		1.5.3 Reference
2	Per	emission 7
-	2.1	Definition
	2.2	Types
	2.3	What is the permission system used by fuji?
	2.0	2.3.1 Explanation
		2.3.2 Set a string permission for a command
	2.4	Reference
		Total Circles Control
3	Me	ta 9
	3.1	Definition
	3.2	Example
4	Cor	nfiguration 10
	4.1	Main-Control File
		4.1.1 Configuration
	4 2	Module-Control File

5	Mo	
	5.1	afk
		5.1.1 Purpose
		5.1.2 Command
		5.1.2.1 /afk
		5.1.3 Configuration
	5.2	anti build
	J	5.2.1 Purpose
		5.2.2 Anti Types
		5.2.3 Exapmle
	F 9	•
	5.3	back
		5.3.1 Purpose
		5.3.2 Command
		5.3.2.1 /back
		5.3.3 Configuration
	5.4	chat
		5.4.1 Purpose
		5.4.2 Sub-Module
		5.4.2.1 style
		5.4.2.1.1 Command
		$5.4.2.1.1.1$ /chat $\dots \dots 10$
		5.4.2.1.2 Feature
		5.4.2.1.3 Placeholder
		5.4.2.1.4 Configuration
		5.4.2.2 display
		5.4.2.2.1 Placeholder
		5.4.2.2.2 Configuration
		5.4.2.3 history
		5.4.2.3.1 Configuration
	ر ر	5.4.3 Reference
	5.5	cleaner
		5.5.1 Purpose
		5.5.2 Command
		5.5.2.1 /cleaner clean
		5.5.3 Configuration
	5.6	color
		5.6.1 Purpose
		5.6.2 Sub-Module
		5.6.2.1 Sign
		5.6.2.2 Anvil
	5.7	command alias
		5.7.1 Purpose
	5.8	command attachment
	0.0	5.8.1 Purpose
		5.8.2 Command
		5.8.2.1 /command-attachment
	F 0	5.8.3 Example
	5.9	- command - pundle

	5.9.1	Purpose			
	5.9.2	-			26
	0.9.2				
	r 0.9				
	5.9.3				
	5.9.4				
	5.9.5				
5.10	comma	${ m and\_coole}$	$down \dots$		
	5.10.1	Purpose			
5.11	comma	and even	ıt		
	5.11.1	Purpose			
		_			
5 12		-			30
0.12		_			
		_			30
E 19					
5.15		_			
		_			
	5.13.2				
		5.13.2.1			
			5.13.2.1.2	Command .	
				5.13.2.1.2.1	/run
			5.13.2.1.3	Example	
		5.13.2.2		-	
				-	32
			0.10.2.2.2		/for_each
			5.13.2.2.3		
		5.13.2.3			
		0.10.2.0			
				_	
			5.13.2.3.2		
					/chain
		5.13.2.4	delay		
			5.13.2.4.1	Purpose	
			5.13.2.4.2	Command	
				5.13.2.4.2.1	/delay
			5.13.2.4.3	Example	
		5.13.2.5			
		0.20.2.0	•		
			0.10.2.0.2		/json
			5 12 0 F 2		
		<b>*</b> 10 0 0			
		5.13.2.6			
				_	
			5.13.2.6.2		
				5.13.2.6.2.1	/attachment
			5 13 2 6 3	Example	36

		5.13.2.7	shell		 	 	 	 	 		 37
			5.13.2.7.1	Purpose	 	 	 	 	 		 37
			5.13.2.7.2								37
5.14	comma	and pern	nission								38
											38
			ıd								38
			/command								38
	5.14.3		orks	_							38
											38
			ite								39
											39
		-	duler								40
											40
			id								40
	0.10.2		$/{ m command}$								40
E 17	0.00000000										40
		_									41
			00x								42
		-									42
	5.18.2		lule								42
			/bed								42
			/extinguish								42
			/feed								42
			/fly								42
			/god								42
			/hat								42
			/sit								42
			/heal								42
			/lore								42
			/more								43
			/ping								43
			/realname								43
			/nickname								43
			r/repair .								43
		5.18.2.15	/reply		 	 	 	 	 		 43
		5.18.2.16	s/seen		 	 	 	 	 		 43
			/suicide .								43
		5.18.2.18	/top		 	 	 	 	 		 43
		5.18.2.19	/trashcan		 	 	 	 	 		 43
		5.18.2.20	/tppos		 	 	 	 	 		 43
		5.18.2.21	/warp		 	 	 	 	 		 43
		5.18.2.22	/burn		 	 	 	 	 		 43
			/help_op								43
			/near								43
			/jump								43
			/compass								43
5.19	comma		nup								44
		Purposo	_								44

5.20	deathlog	
	5.20.2 Command	
5.21	÷	
		er
r 00		
5.22		
	5.22.1.6 /send-chat	
5.23	fuji	
	5.23.1 Purpose	
	5.23.2 Command	
5.24		
	, =	
	, 3 1 0	
	· · · · · · · · · · · · · · · · · · ·	
	<del>-</del>	rm
	5.25.1.1.2 Configuration	on
	5.25.1.2 carpet	
	5.25.1.2.1 Sub-Module	51
	5.25.1.2.1.1	fake_player_manager 51
		5.25.1.2.1.1.1 Purpose 51
		5.25.1.2.1.1.2 Command 51
		5.25.1.2.1.1.3 Configuration 51
	5 25 1 2 1 2	better info 52

		5.25.1.2.1.2.1	Purpose
5.26	head		
	5.26.1 Purpose		
	5.26.2 Command		
	5.26.2.1 /head		
	5.26.3 Configuration		
F 97			
3.27	home		
	5.27.1 Purpose		
	5.27.2 Command		
	5.27.2.1 /home		
	5.27.3 Meta		
5.28	kit		
	5.28.1 Purpose		
	5.28.2 Concept		
	5.28.3 Command		
	5.28.3.1 /kit		55
5.29	language		
	5.29.1 Purpose		
	5.29.2 Feature		
	5.29.3 Difference		
5.30	motd		
0.00	5.30.1 Purpose		
	5.30.2 Reference		
5 31	multiplier		
0.01	5.31.1 Purpose		
	5.31.2 Supported Numeric Types		
E 20	5.31.3 Example		
0.52	nametag		
	5.32.1 Purpose		
	5.32.2 Configuration		
	5.32.3 Example		
	5.32.4 Reference		
5.33	placeholder		
	5.33.1 Purpose		
	5.33.2 Placeholder		
5.34	profiler		
	5.34.1 Purpose		
	5.34.2 Command		62
	5.34.2.1 /profiler		
5.35	pvp		
	5.35.1 Purpose		
	5.35.2 Command		
	5.35.2.1 /pvp		
5.36	rtp		
0.00	5.36.1 Purpose		
	5.36.2 Feature		
	5.36.3 Command		
	5.36.3.1 /rtp		
	0.00.0.1 /10P		U

			5.36.3.1.1	Argument .						 		 	64
	5.36.4	Configur											64
5.37													65
													65
													65
	0.01.2												65
	5 37 3		/										65
5 20													66
0.00													66
E 20		-											68
5.39													
													68
													68
	5.39.3												68
		5.39.3.1											69
				Purpose									69
				How it works									69
				Example									69
			5.39.3.1.4	Sub-Module						 		 	69
				5.39.3.1.4.1	sync	_game	_prof	ile .		 		 	69
					5.39.	3.1.4.1.	1 F	urpo	se .	 		 	69
		5.39.3.2	faker							 		 	70
				Purpose									70
5.40	telepor	rt warmu											71
													71
													71
5.41		_											72
0.11		-											72
													72
	0.11.2												72
	5 /11 3												72
5 49													73
0.42													73
													73
	3.42.2												
F 40	. 1												73
5.43													74
		_											74
	5.43.2												74
	- 100	5.43.2.1	/chunks .							 	•	 • •	74
													74
5.44	_												75
		_											75
	5.44.2												75
													75
		5.44.2.2	$/{ m tpahere}$							 		 	75
		5.44.2.3	$/{ m tpaacept}$							 		 	75
		5.44.2.4	/tpadeny							 		 	75
													75
	E 44 9	Configur											75

	5.45	view
		5.45.1 Purpose
		5.45.2 Command
		5.45.2.1 /view inv
		5.45.2.2 /view ender
	5 46	whitelist
	5.40	
	- 1H	5.46.1 Purpose
	5.47	works
		5.47.1 Purpose
		5.47.2 Concept
		5.47.3 Command
		5.47.4 Configuration
	5.48	world
		5.48.1 Purpose
		5.48.2 Command
		5.48.2.1 /world
		5.48.3 Concept
		5.48.4 Configuration
	F 40	•
	5.49	world_downloader
		5.49.1 Purpose
		5.49.2 Configuration
6	<b>Q</b> &.	4
Ü	6.1	Where is the configuration files?
	6.2	What is .json file?
	6.3	How can I edit a configuration file?
	6.4	What is .dat file?
	6.5	How to update fuji to a new version?
		6.5.1 Backup the data
		6.5.2 Test the new version in your test-environment
		6.5.3 Apply the changes to production-environment
	6.6	Fuji conflits with one of my mods
	6.7	Can I ask the forge or neoforge support?
	6.8	How can I report bugs or suggest new features?
7		nsformer 8
	7.1	Command Transformer
	7.2	Command Generator
0	Dan	alanment S
8		elopment Solven the development environment
	8.1	Setup the development environment
9	Sug	gestion
	9.1	Suggestion on server-side mods
		9.1.1 Explanation
		9.1.2 Server-side mode list

# Chapter 1

# Concept

## 1.1 Configuration File

### 1.1.1 Definition

All files inside config/fuji directory are named configuration file

## 1.1.2 Types

## Note: The types of configuration files

- 1. Control File A control file is used to control behaviours.
  - 1.1. Main-Control File The main-control file refers to the config/fuji/config.json file, which is used to enable/disable a module.
  - **1.2.** Module-Control File Some modules will have their own control file, which is used to control the behaviour of the module.
- 2. User-Data File User-data files are used to store the data generated by the user.

## 1.2 Module

#### 1.2.1 Definition

A module is used to provide a specific purpose.

#### Example: The purpose of modules

- 1. ChatModule provides chat-format customization.
- 2. TpaModule provides /tpa command.

## 1.2.2 Properties

The properties of a module are as follows:

- 1. Can be disabled You can disable a module completely in main-control file by setting the value of its enable key to false.
- 2. Can work standalone The code of a module is self-contained, there is no symbol reference to other modules.

#### 1.2.3 Module Path

A module is identified by a unique module path.

#### Example: What a module-path looks like?

The module path of the module tpa is tpa.

The module path of the module history whose parent module is chat, is chat.history.

You will see a list of enabled modules identified by their module path at the server-startup process.

A module can have sub-module.

The relationship between parent-module and sub-module is relative, and there is nothing special about sub-module.

## 1.2.4 How to enable/disable a module?

You can enable/disable a module in config/fuji/config.json by setting the value of its enable key to true/false.

A module will be enabled if the following conditions are met:

- $1. \ \, {\rm The} \,\, {\rm value} \,\, {\rm of} \,\, {\rm common.debug.disable\_all\_modules} \,\, {\rm is} \,\, {\rm false}.$
- 2. The required dependency mods are installed.
- 3. Its parnet-module is enabled.
- 4. The value of its enable key is true.

## Example: How to enable a sub-module?

To make the module chat.display enabled, you need to enable chat module first.

## 1.3 Job

#### 1.3.1 Definition

A job is some things will be done repeatedly.

## 1.3.2 Cron Expression as Trigger Rule

A language named cron language is used to define when a job should be triggered.

## Tip: Don't write cron expression by hand. Use generator!

A cron expression looks like 0 \* \* ? \* \*, means trigger the job every minute. You can use the generator to generate a cron expression: https://www.freeformatter.com/cron-expression-generator-quartz.html

## 1.4 Regex

## 1.4.1 Definition

Regex is a language used to define the pattern of strings.

## 1.4.2 Reference

- 1. https://regexr.com/
- 2. https://regex101.com/

## 1.5 Placeholder

## 1.5.1 Definition

A placeholder is a string which will be replaced based on context.

## Tip: What is the placeholder api in fabric platform?

There is a plugin named PlaceholderAPI in bukkit platform.

Also, there is a mod named Text Placeholder API in fabric platform.

They are different projects, but provides the same purpose.

## 1.5.2 Example

Example: Replace player name by context

The placeholder "player:name" will be replaced by the name of the contextual player.

#### 1.5.3 Reference

- 1. https://placeholders.pb4.eu/user/default-placeholders/
- 2. https://placeholders.pb4.eu/user/mod-placeholders/

# Chapter 2

## Permission

## 2.1 Definition

A permission is used to decide whether a player can do something or not.

## 2.2 Types

To make the discussion clearer, we define the types of permission as follows:

- 1. level permission A permission level is a non-negative number used in vanilla minecraft. The higher number means the higher authority.
- 2. string permission Usually, a string permission is introduced by a permission plugin, such as luckperms.

## 2.3 What is the permission system used by fuji?

### 2.3.1 Explanation

Fuji use the mojang's vanilla permission system, which is based on level permission.

As a convention, most of the commands registered by fuji, requires level permission to be 0 to use. Only a few of the commands require the level permission to be 4 to use.

## 2.3.2 Set a string permission for a command

By default, fuji only use the level permission as the requirement of a command. However, if you want to use string permission for a command, you can use command permission module, which is used to override the requirement of an existing command.

#### Example: Allow players to use /seed command

The command /seed provided by mojang requires level permission to be 3 to use. If you want to allow players to use /seed command, but you don't want to grant op for them. Then in this situation, you can grant the string permission for them: /lp group default permission set fuji.permission.seed true, which means that: set the requirement of command /seed to string permission fuji.permission.seed.

#### Example: Dis-allow players to use /list command

The command <code>/list</code> provided by mojang required <code>level</code> permission to be 0 to use. If you want to dis-allow players to use <code>/list</code> command, but because this command requires no string permission to use, so it's impossible to ban it via <code>luckperms</code>. In this situation, you can grant a string permission: <code>/lp</code> group default permission set <code>fuji.permission.list</code> false for them, which means that: set the requirement of command <code>/list</code> to string permission <code>fuji.permission.list</code>.

#### Example: Unset the override of requirement of the command

To undo the operation in the first example, just issue /lp group default permission unset fuji.permission.seed

#### 2.4 Reference

1. https://minecraft.fandom.com/wiki/Permission\_level

# Chapter 3

# Meta

## 3.1 Definition

A meta is a key-value pair.

#### Note:

Note that meta is introduced by luckperms mod, there is no meta in vanilla minecraft.

## 3.2 Example

Example: Set a meta for a gruop.

The home module supports the meta fuji.home.home\_limit, which controls how many homes a player can create. To set the max homes limits to 3: /lp group default meta set fuji.home.home\_limit 3

Example: Query all metas for a group.

/lp group default info

## Chapter 4

# Configuration

#### 4.1 Main-Control File

## 4.1.1 Configuration

core The core options inside config/fuji/config.json will influence all modules.

#### debug

disable all modules Used to test the compatibility between fuji and other mods.

backup Fuji will back up the config/fuji directory automatically before it loads any module.

max slots How many backup should we keep?

skip The list of path resolver to skip in backup.

Insert modules/head means skip the folder config/fuji/modules/head.

#### language

default language The default language to use.

Tip: Enable multi-language support for fuji

See language

quartz Fuji use quartz library as scheduler, all the Job are managed by quartz. Quartz library use a language called cron language to define when to trigger a job.

logger\_level The logger level for quartz. The logger level from high to low are: OFF, FATAL, ERROR, WARN, INFO, DEBUG, TRACE, ALL.

#### Example: Enable all logs for quartz

Set the value to ALL to display all the messages from quartz. It's recommended to set at least WARN level, to avoid console spam.

## 4.2 Module-Control File

You can read more about module-control file for each module in Module

# Chapter 5

# Module

## 5.1 afk

### 5.1.1 Purpose

This module provides afk detection, afk event, afk name customization and afk effects.

#### 5.1.2 Command

## 5.1.2.1 /afk

## 5.1.3 Configuration

format The tab list name format when a player is afk

```
afk checker
```

**cron** The cron to define how the afk checker is triggered.

afk event Execute commands on afk events.

```
Example: Kick a player if he enters afk state

"on_enter_afk": [
  "send-broadcast <gold>Player %player:name% is now afk",
  "kick %player:name% You are kicked beacause of afk."
]
```

event Afk effects are applied if a player enters afk state.

invulnerable Immune to all damage?targetable Can be targeted by a hostile entity?moveable Can be moved if in afk state?

## 5.2 anti build

## 5.2.1 Purpose

This module allows you to ban the interaction with some item/block/entity.

## 5.2.2 Anti Types

The types supported by this module are as follows:

- $1.\ break\_block$
- 2. place block
- $3.\ interact\_item$
- $4. \ interact\_block$
- 5. interact\_entity

## Tip: Query identifiers

```
To query block identifier, issue /setblock ~~~...

To query entity identifier, issue /summon ...

To query item identifier, issue /give ...
```

## 5.2.3 Exapmle

#### Example: Ban TNT

add minecraft:tnt into place\_block list

## Example: Ban TNT but allow a specific player to use

/lp user <player> permission set fuji.anti\_build.place\_block.bypass.minecraft:tat

## 5.3 back

## 5.3.1 Purpose

This module allows player to teleport back to last teleport point or death point.

## 5.3.2 Command

## 5.3.2.1 /back

## 5.3.3 Configuration

**ignore\_distance** If the player's teleportation destination is close enough, we ignore this teleportation.

#### 5.4 chat

### 5.4.1 Purpose

This module provides chat related customization.

#### 5.4.2 Sub-Module

#### 5.4.2.1 style

Customize the server chat format and per-player chat format.

#### 5.4.2.1.1 Command

#### **5.4.2.1.1.1** /chat

#### 5.4.2.1.2 Feature

- 1. You can create your own regex transformer to replace chat message sent by players.
- 2. You can insert any placeholder like %world:name%
- 3. You can insert player's prefix and suffix. Just insert %fuji:player\_prefix% and %fuji:player\_suffix%.
- 4. You can insert "item", "inv" and "ender" to display your item, inventory and ender-chest.
- 5. You can insert "Steve" to mention another player named Steve.
- 6. You can insert "pos" to show the position.
- 7. You can use  ${\tt markdown}$  language to define simple format.
- 8. You can use mini-message language to define complex format.
- 9. Besides the server chat format, each player can also set their per-player chat format.
- 10. This module doesn't **cancel** the vanilla chat events, so it can work with other chat related mods.

#### Tip: Write complex style using mini-language

You can use mini-language to write complex text.

See more:

- 1. https://docs.advntr.dev/minimessage/format.html
- 2. https://placeholders.pb4.eu/user/quicktext

#### 5.4.2.1.3 Placeholder

- 1. %fuji:pos% player current position
- 2. %fuji:player\_prefix% player prefix
- 3. %fuji:player\_suffix% player suffix

#### Note: Set prefix and suffix for players

Luckperms is required to set prefix and suffix.

After you installed luckperms mod, just issue /lp group default meta setprefix <yellow>[awesome] to assign prefix.

Don't forget to change the format in chat module, and issue /fuji reload

#### 5.4.2.1.4 Configuration

**format** The server chat format for all players.

rewrite The regex language list used to rewrite the player chat message.

You can use regex language to transform player's chat input (only chat message, no command usage).

mention\_player If you insert Steve in chat message, then the player named Steve will get audio mention.

sound The type of sound used to notify the mentioned player.

#### Tip: Query all identifiers of sound

/playsound ...

volume

pitch

repeat count The sound repeat count.

interval ms The interval between each repeat.

spy Log chat information into server-console.

#### **5.4.2.2** display

#### 5.4.2.2.1 Placeholder

- 1. %fuji:item% display player's main-hand item.
- 2. %fuji:inv% display player's inventory.
- 3. %fuji:ender% display player's ender-chest.

## 5.4.2.2.2 Configuration

**expiration\_duration\_s** For each display data, how long should we save in the memory. Note that if a player shares its inventory items, then fuji will save a copy of his inventory data in the memory.

## **5.4.2.3** history

New joined players can see the historical chat messages.

## 5.4.2.3.1 Configuration

**buffer\_size** How many chat messages should we save, so that we can send for a new-joined player.

## 5.4.3 Reference

- 1. Text Placeholder API default placeholders
- $2. \ \, {\rm Luckperms}$  prefix, suffix and meta

#### 5.5 cleaner

### 5.5.1 Purpose

This module provides the entity cleaner to remove specified entities automatically.

#### Note: Only use this module to clean some edge-case entity

Since the vanilla minecraft also has a cleaner to remove the item stack in the ground, so it's recommended to only use this module to clean some weak-loading entities, like: the sand item stack . . .

#### 5.5.2 Command

#### 5.5.2.1 /cleaner clean

#### Note: The cleaner will keep silent if cleans nothing

If the cleaner cleans nothing, then it will keep silent. (Which means you will not see any message in console, or in-game chat)

#### Tip: See what is cleaned in cleaner broadcast.

Hover your mouse on the cleaner broadcast, you can see what has been removed.

#### 5.5.3 Configuration

cron The cron used to define the job to trigger /cleaner clean.

**key2age** The key is translatable key, which you can query in en\_us.json language file in minecraft 1.21.

The translatable key of entity starts with entity.minecraft.

The translatable key of item starts with item.minecraft and block.minecraft.

The age is the existence time of the entity, the unit of age is game tick, which means 20 age = 20 ticks = 1 second.

The cleaner will only remove the entities whose translatable key equals key, and age greater equals the defined age, and the entity must not in the ignore list.

#### Example: Clean the sand-block entity lives longer than 60sec

"block.minecraft.sand": 1200

**ignore** Entities match the ignore list will not be cleaned.

ignore item entity Should we ignore all item entity.

ignore living entity Should we ignore all living entity?

If you want the cleaner to remove monster or animals, you should enable this option.

```
ignore_named_entity Should we ignore named entity.(With name tag, or name changed
    by anvil.)
ignore_entity_with_vehicle Like entity riding in some other entity, e.g. minecraft, pig or
    spider
ignore_entity_with_passengers
ignore_glowing_entity
ignore_leashed_entity
```

## Note: The built-in safety rule

The cleaner will always ignore the following types:

- 1. player
- 2. any block attached entity (e.g. leash\_knot)
- 3. any vehicle entity (e.g. minecart, boat ...)

## 5.6 color

## 5.6.1 Purpose

This module provides colorize for things.

## 5.6.2 Sub-Module

- 5.6.2.1 Sign
- 5.6.2.2 Anvil

## 5.7 command\_alias

## 5.7.1 Purpose

This module allows you to define command alias, which redirect to the existing command node.

Note: A command node is identified by path

See also: https://minecraft.fandom.com/wiki/Commands

## 5.8 command attachment

### 5.8.1 Purpose

This module allows you to attach commands into itemstack.

#### 5.8.2 Command

#### 5.8.2.1 /command-attachment

Note: The same item-stack shares the-same instance

If you hold stick \* 64 in your main-hand, then all the sticks share the same attached commands.

#### 5.8.3 Example

Example: Make a magic-stick which heals the player on clicked.

Hold a stick item in your main hand.

/command-attachment attach-item-one heal

Example: Make a magic-stick which gives one dimaond on left clicked with use limit 3 and gives one gold ingot on right clicked with use limit 5.

Hold a stick item in your main hand.

```
/command-attachment attach-item-one --maxUseTimes 3 --interactType LEFT give
%player:name% minecraft:diamond 1
/command-attachment attach-item-one --maxUseTimes 5 --interactType RIGHT
give %player:name% minecraft:gold_ingot 1
```

Example: Make a magic-stick which gives one apple on clicked with use limit 3 without destroying the item.

Hold a stick item in your main hand.

/command-attachment attach-item-one --maxUseTimes 3 --destroyItem false give
%player:name% minecraft:apple 1

Example: Query the attached commands in the mainhand item.

/command-attachment query-item

Example: Let an entity says hello on right click

/command-attachment attach-entity-one <entity-id> say hello %player:name%

## Example: Say hello if you steppd on a specific block

/command-attachment attach-block-one 0 0 0 --interactType STEP\_ON say hello
%player:name%

## Example: Make a portal on a specific block

```
/command-attachment attach-block-one 0 0 0 --interactType STEP_ON tppos --targetPlayer %player:name% --dimension minecraft:the_end --x 0 --y 66 --z 0 %player:name%
```

## 5.9 command bundle

### 5.9.1 Purpose

This module allows you to create bundle commands, input one command, output many commands.

#### 5.9.2 Command

#### 5.9.2.1 /command-bundle

#### 5.9.3 Feature

- 1. a user-friendly DSL to create new custom commands easily, with the interoperation of variables, placeholders and selectors.
- 2. support complex command argument type: required argument, literal argument and even the optional argument with a default value.
- 3. a powerful type-system to ensure the type-safe input, with fully command suggestion.
- 4. register and un-register commands on the fly, without the server restart!

## 5.9.4 Example

```
Example: Combine commands into one command

{
    "requirement": {
        "level": 0,
        "string": null
},
    "pattern": "composite-heal",
        "bundle": [
        "say before heal %player:name%",
        "run as fake-op %player:name% particle minecraft:heart ~ ~2 ~"
        "run as player %player:name% heal",
        "say after heal %player:name%"
        ]
}
```

CHAPTER 5. MODULE

27

#### 5.9.5 Reference

- $1.\ \mathtt{https://www.gamergeeks.net/apps/minecraft/particle-command-generator}$
- 2. https://learn.microsoft.com/en-us/minecraft/creator/documents/particleeffects?view=minecraft-bedrock-stable

# 5.10 command\_cooldown

# 5.10.1 Purpose

This module adds a cooldown after command execution.

# 5.11 command event

# 5.11.1 Purpose

Execute commands on specific events.

# 5.11.2 Example

# 5.12 command interactive

## 5.12.1 Purpose

This module allows you to write commands in sign block.

## **5.12.2** Example

# Example: Basic usage

/say hi %player:name% line 2 empty

line 3 empty

line 4 empty

## Example: Add a prefix description text

prefix /say first
/say the second
/say hi %player:name%

/say the last command

## Example: Concat commands between lines

prefix /say this is the first /say and the second line 4 empty

#### Tip:

- 1. You need to press shift + right click to edit an interactive sign
- 2. The command is executed as the player.

# 5.13 command meta

### 5.13.1 Purpose

This module provides commands to operate on commands.

#### 5.13.2 Sub-Module

5.13.2.1 run

#### **5.13.2.1.1** Purpose

This module provides /run command, which can run a command with context.

#### 5.13.2.1.2 Command

5.13.2.1.2.1 /run

#### 5.13.2.1.3 Example

Example: Give random diamonds to online players

/run as console give @a minecraft:diamond %fuji:random 8 32%

Example: Give online players random diamonds

/run as console foreach give %fuji:escape player:name% minecraft:diamond
%fuji:escape fuji:random 8 32 1%

Example: Execute a command as a player

/run as player Steve back

Example: Execute a command as fake-op

/run as fake-op Steve give %player:name% minecraft:apple 1

#### 5.13.2.2 for each

#### 5.13.2.2.1 Purpose

This module provides /foreach command.

If a command is only targeted for single player, you can use /foreach to apply it for each player.

#### **5.13.2.2.2** Command

5.13.2.2.2.1 /for each

#### **5.13.2.2.3** Example

## Example: Say hello to online players

/foreach say hello %player:name%

#### Tip: Escape the placeholder properly

If you use foreach in scheduler module, then you should escape (Write "fuji:escape player:name" instead of "player:name") the placeholder.

It's because the command-scheduler module will try to parse the placeholder, and you need to escape the placeholder, so that the placeholder can be parsed by /foreach command. Here is an example about escape the foreach command in scheduler command list: /foreach give %fuji:escape player:name% minecraft:diamond 16

#### 5.13.2.3 chain

#### 5.13.2.3.1 Purpose

A chain command allows you to run another 2 commands, the first is any command, and the second is the chain command.

## Note: The return value of a command

In vanilla minecraft, the return value of command, is an integer:

- **1.** <**0** failed
- 2. = 0 passed
- 3. > 0 success

#### 5.13.2.3.2 Command

**5.13.2.3.2.1** /chain

#### **5.13.2.3.3** Example

## Example: A nested chain.

/chain say 1 chain say 2 chain say 3

## Example: A breakable chain.

/chain bad command here chain say 2

#### 5.13.2.4 delay

#### **5.13.2.4.1** Purpose

Delay command allows you to execute a command in specific seconds.

## **5.13.2.4.2** Command

5.13.2.4.2.1 /delay

## 5.13.2.4.3 Example

# Example: A basic usage

/delay 3 say three seconds passed

# Example: A nested delay

/delay 1 delay 2 delay 3 say 6 seconds passed.

#### 5.13.2.5 json

#### 5.13.2.5.1 Purpose

Provides a unified json editor.

## **5.13.2.5.2** Command

5.13.2.5.2.1 /json

## $\mathbf{5.13.2.5.3} \quad \mathbf{Example}$

# Example: Read a key

/json read "config/fuji/config.json" "\$.core.quartz.logger\_level"

## Example: List keys

/json read "config/fuji/config.json" "\$.modules.keys()"

# Example: Set a key

/json write "config/fuji/config.json" "\$.core.quartz.logger\_level" STRING INFO"

#### **5.13.2.5.4** Reference

1. https://goessner.net/articles/JsonPath/

#### 5.13.2.6 attachment

#### **5.13.2.6.1** Purpose

Provides a unified attachment facility, which can attach any data to any object.

## **5.13.2.6.2** Command

#### **5.13.2.6.2.1** /attachment

## 5.13.2.6.3 Example

# Example: Set a attachment

/attachment set news today hello world

## Example: Get a attachment

/attachment get news today

#### 5.13.2.7 shell

#### 5.13.2.7.1 Purpose

This module provides /shell command, which executes the command line in the host shell.

Danger: This is a dangerous module

This module is a powerful and dangerous module, not recommended to enable it.

#### **5.13.2.7.2** Example

Example: Create a file using placeholder

/shell touch %player:name%.dangerous

Example: Execute a program in the host os

/shell emacs

Example: Possible to download a virus from Internet and execute it!

/shell ...

# 5.14 command permission

### 5.14.1 Purpose

This module provides the customization of the requirement of all commands.

#### **5.14.2** Command

#### 5.14.2.1 /command-permission

#### 5.14.3 How it works

The vanilla minecraft use a command system named brigadier.

All the commands are registered, parsed and executed by brigadier.

In this system, all commands are build into a tree structure, that is to say, all commands are a direct or in-direct child of the **root command node**.

#### Example: What is the path of a specific command node?

For example, the command /gamemode creative Steve is composed by 3 command node:

- 1. literal command node = "gamemode"
- 2. argument command node = a gamemode argument
- 3. argument command node = a player argument

We say that the command path of 'gamemode creative Steve, is ["gamemode", "gamemode", "target"].

Also, each **command node** has its **requirement**, which is a **predicate** to check if the **command source** can use the command node.

### Tip: Query all the registered command path

/lp group default permission set fuji.permission...

#### **5.14.4** Example

#### Example: Allow everyone to use /op command

/lp group default permission set fuji.permission.op true

### Example: Allow the client-side to use gamemode switcher menu

After you assign the /gamemode command permission for players, the client-side also requires to install a mod to bypass the client-side permission checking: https://modrinth.com/mod/switcher

# 5.15 command\_rewrite

# 5.15.1 Purpose

This module allows you to use regex language to rewrite the command line a player issued.

# 5.16 command\_scheduler

# **5.16.1** Purpose

This module allows you to define jobs using cron expression to run commands.

# **5.16.2** Command

# 5.16.2.1 /command-scheduler trigger

Immediately trigger a job.

# 5.17 command\_spy

# 5.17.1 Purpose

Log command issue event into the console.

# $5.18 \quad command\_toolbox$

# 5.18.1 Purpose

This module provides some simple commands. (misc commands)

## 5.18.2 Sub-Module

- 5.18.2.1 /bed
- **5.18.2.2** /extinguish
- **5.18.2.3** /feed
- **5.18.2.4** /fly
- 5.18.2.5 /god
- 5.18.2.6 /hat
- 5.18.2.7 /sit
- **5.18.2.8** /heal
- **5.18.2.9** /lore

# Example: Set lore for item in mainhand

/lore set <rainbow>the first line<newline><bold><green>the second

- **5.18.2.10** /more
- 5.18.2.11 /ping
- 5.18.2.12 /realname
- 5.18.2.13 /nickname
- 5.18.2.14 /repair
- $\mathbf{5.18.2.15} \quad /\mathbf{reply}$
- 5.18.2.16 /seen
- $\mathbf{5.18.2.17} \quad / \mathbf{suicide}$
- **5.18.2.18** /top
- **5.18.2.19** /trashcan
- $\textbf{5.18.2.20} \quad / \textbf{tppos}$
- 5.18.2.21 /warp
- 5.18.2.22 /burn
- $\mathbf{5.18.2.23} \quad / \mathbf{help\_op}$
- 5.18.2.24 /near
- 5.18.2.25 /jump
- 5.18.2.26 /compass

# 5.19 command\_warmup

# 5.19.1 Purpose

This module adds a cooldown before command execution.

Note: The difference between command warmup and command cooldown

command warmup is before command execution, while command cooldown is after that.

# 5.20 deathlog

# 5.20.1 Purpose

This module logs the inventory on player death.

#### 5.20.2 Command

1. /deathlog

# 5.20.3 Example

Example: Query the logs for a player

/deathlog view Steve

Example: Restore a death log from a player for a player

/deathlog restore Steve O Steve

# Tip: The death log index number is clickable

You can click the number to quickly restore the logged inventory to your inventory.

## 5.21 disabler

### 5.21.1 Purpose

This module provides disablers to disable checkers inside vanilla minecraft.

#### 5.21.2 Sub-Module

#### 5.21.2.1 chat speed disabler

Disable Kicked for spamming.

## ${\bf 5.21.2.2 \quad move\_speed\_disabler}$

Disable player moved too quickly and vehicle moved too quickly.

## 5.21.2.3 move wronlyy disabler

Disable player moved wrongly.

#### Warning: The movement anti-cheat inside vanilla minecraft is bad

Inside the vanilla minecraft server, there is a checker used to check if the player moves correctly. However, this checker usually makes wrong detection, and force setback the player, which makes the client-side gameplay feel lagged.

#### 5.21.2.4 max\_player\_disabler

Disable the max players limit of the server.

#### 5.22 echo

This module provides commands to send echo to players.

#### 5.22.1 Sub-Module

- 5.22.1.1 /send-message
- 5.22.1.2 /send-broadcast
- 5.22.1.3 /send-actionbar
- 5.22.1.4 /send-title

#### Example: Send title to a player

```
/send-title Steve --mainTitle "<rainbow>Hello" --subTitle "<blue>World" --fadeInTicks 60 --stayTicks 60 --fadeOutTicks 60
```

# Example: Send title to online players

```
/foreach send-title %player:name% --mainTitle "<rainbow>Hello %player:name%"
```

#### 5.22.1.5 /send-toast

#### Example: Send toast to a player

```
/send-toast Steve --icon minecraft:golden_carrot <rb>eat this carrot
```

#### 5.22.1.6 /send-chat

#### Example: Send chat as a player

```
/send-chat Steve i am steve.
```

# Example: Send chat as a player for online players

```
/foreach send-chat %player:name% i am %player:name%
```

# 5.23 fuji

# 5.23.1 Purpose

This module provides the command /fuji, which includes some operations on fuji itself.

## **5.23.2** Command

## 5.23.2.1 /fuji reload

Reload all configuration files and all modules.

#### 5.23.2.2 /fuji about

# Note: Module itself can't be hot reloaded

After you enable or disable a module, you must restart the server.

# 5.24 functional

# 5.24.1 Purpose

This module allows players to open a virtual gui of functional-block.

# 5.24.2 Sub-Module

- 5.24.2.1 /workbench
- **5.24.2.2** /enchantment
- 5.24.2.3 /grindstone
- 5.24.2.4 /stonecutter
- **5.24.2.5** /anvil
- 5.24.2.6 /cartography
- 5.24.2.7 /enderchest
- 5.24.2.8 /smithing
- **5.24.2.9** /loom

# 5.25 gameplay

## 5.25.1 Sub-Module

# 5.25.1.1 multi obsidian platform

#### **5.25.1.1.1** Purpose

This module makes every **ender portal frame** generates its own **obsidian platform** (Up to 128 in survival-mode).

You can even use creative-mode to build more ender portal frame and more obsidian platform.

#### Note: All the obsidian platforms are vanilla-respect

All the extra obsidian platforms have the same behaviour as the vanilla one which locates in (100,50,0).

#### 5.25.1.1.2 Configuration

factor The coordination-conversion factor between overworld and the \_end. In vanilla minecraft, the factor between overworld and the \_nether is 8.

#### 5.25.1.2 carpet

#### 5.25.1.2.1 Sub-Module

#### 5.25.1.2.1.1 fake player manager

#### 5.25.1.2.1.1.1 Purpose

Enable this module requires carpet-fabric mod installed. This module provides some management for fake-player.

#### 5.25.1.2.1.1.2 Command

- 1. /player who query the owner of the fake-player
- 2. /player renew renew all of your fake-players

#### **5.25.1.2.1.1.3** Configuration

caps limit rule How many fake-player can each player spawn (in different time)?

The tuple means (day\_of\_week, minutes\_of\_the\_day, max\_fake\_player\_per\_player). The range of day of week is [1,7].

The range of minutes of the day is [0, 1440].

For example: (1, 0, 2) means if the days\_of\_week >= 1, and minutes\_of\_the\_day >= 0, then the max\_fake\_player\_per\_player now is 2.

Besides, you can add multi rules, the rules are checked from up to down.

The first rule that matches current time will be used to decide the  $\max_{fake_player_per_player}$ .

You can issue /player who to see the owner of the fake-player.

Only the owner can operate the fake-player. (Op can bypass this limit)

**renew\_duration\_ms** How long should we renew when a player issue **/player renew** The command /player renew allows the player to manually renew all of his fake-player. If a fake-player don't gets renew, then it will expired and get killed. Use-case: to avoid some long-term alive fake-player.

**transform**\_**name** The rule to transform the name of fake-player. Use-case: add prefix or suffix for fake-player.

use <u>local\_random\_skins\_for\_fake\_player</u> Should we use local skin for fake-player? Enable this can prevent fetching skins from mojang official server each time the fake-player is spawned. This is mainly used in some network situation if the network to mojang official server is bad.

# ${\bf 5.25.1.2.1.2}\quad {\bf better\_info}$

# **5.25.1.2.1.2.1** Purpose

Add nbt query for /info block command. Add the command /info entity.

# 5.26 head

# 5.26.1 Purpose

This module allows players to buy decorative heads from a head-database.

# **5.26.2** Command

**5.26.2.1** /head

# 5.26.3 Configuration

economy\_type Can be ITEM or FREE

# 5.27 home

# **5.27.1** Purpose

This module allows players to set a teleportation point as their home.

# **5.27.2** Command

**5.27.2.1** /home

# 5.27.3 Meta

1. fuji.home.home\_limit The home number per player limit.

# 5.28 kit

# 5.28.1 Purpose

This module allows you to make kits.

# 5.28.2 Concept

A kit is a set of itemstack.

# **5.28.3** Command

**5.28.3.1** /kit

# 5.29 language

#### 5.29.1 Purpose

This module provides client-side multi-language support.

# Note: What is client-side language?

When the client joins a server, it will send its client options, including the client-side language value. The server can send messages in language used by the client later.

#### **5.29.2** Feature

- 1. Client-Side Respect The client-side language will be respected if possible.
- 2. Lazy-load Only load the necessary language into the memory.

#### 5.29.3 Difference

Disabled: All the players use the default\_language.

Enabled: Fuji will try to respect the player's client-side language, if the server-side supports.

# 5.30 motd

# 5.30.1 Purpose

This module provides motd customization.

# 5.30.2 Reference

1. https://colorize.fun/en/minecraft

# 5.31 multiplier

#### 5.31.1 Purpose

This module provides some numeric multiplier.

# 5.31.2 Supported Numeric Types

- 1. damage damage to player
- 2. experience experience a player gained

## **5.31.3** Example

Example: Double the damage from zombie to a player

/lp group default meta set fuji.multiplier.damage.minecraft:zombie 2

Example: Cancel the fall damage

/lp group default meta set fuji.multiplier.damage.minecraft:fall 0

Example: Double all damage to a player

/lp group default meta set fuji.multiplier.damage.all 2

Example: Double all experience a player gained

/lp group default meta set fuji.multiplier.experience.all 2

Example: Half all damage to a player

/lp group default meta set fuji.multiplier.damage.all 0.5

# 5.32 nametag

#### 5.32.1 Purpose

This module provides nametag customization.

#### 5.32.2 Configuration

update cron The cron used for the job to update the properties of display entity.

style Define the style for the nametag display entity.

render Define the nametag render behaviour.

### Note: The explanation of each field in style and render

You can refer to the minecraft wiki about **display entity**: https://minecraft.wiki/w/Display

## **5.32.3** Example

# Example: Set background to blue color

"background": -16776961

#### Example: Set half transparency

"text\_opacity": 128

#### Example: Scale the size of text into double

```
"scale": {
    "x": 2.0,
    "y": 2.0,
    "z": 2.0
},
```

#### 5.32.4 Reference

1. https://minecraft.wiki/w/Display

# 5.33 placeholder

### 5.33.1 Purpose

This module provides more placeholder for Text Placeholder API mod.

#### 5.33.2 Placeholder

- 1. %fuji:player\_mined% sum of mined blocks of a player
- 2. %fuji:server\_mined% sum of mined blocks of a server
- 3. %fuji:player\_placed% sum of placed blocks of a player
- 4. "fuji:server\_placed" sum of placed blocks of a server
- 5. %fuji:player\_killed% sum of killed entities of a player
- 6. %fuji:server\_killed% sum of killed entities of a server
- 7. %fuji:player\_moved% sum of moved distance of a player
- 8. "fuji:server\_moved" sum of moved distance of a server
- 9. %fuji:player\_playtime% sum of playtime of a player
- 10. %fuji:server\_playtime% sum of playtime of a server
- 11. %fuji:health\_bar% the health bar of a player
- 12. %fuji:rotate hello% rotate the string hello
- 13. %fuji:has\_permission% check luckperms permission
- 14. %fuji:has\_meta% get luckperms meta
- 15. %fuji:random\_player% get a random online player
- 16. %fuji:random 1 5% get a random number from 1 to 5
- 17. %fuji:escape% escape a placeholder form the parser. An optional number argument is used as the levels to escape.
- 18. %fuji:protect% protect a string form the parser.
- 19. %fuji:date% get current date.

An optional string argument is used to set the **date formatter**, for example, %fuji:date HH:MM%.

# Tip: Use placeholder in language file

It's allowed to write placeholders in language file.

Note: Some other mods that provide more placeholders

https://placeholders.pb4.eu/user/mod-placeholders/

# 5.34 profiler

# 5.34.1 Purpose

This module shows server health status, such as os, vm, cpu, ram, tps, mspt and gc.

## Warning:

Enable this module requires spark mod installed.

# 5.34.2 Command

# 5.34.2.1 /profiler

# 5.35 pvp

# 5.35.1 Purpose

This module provide pvp state toggle.

# **5.35.2** Command

**5.35.2.1** /pvp

## 5.36 rtp

## 5.36.1 Purpose

Provides random teleportation.

## 5.36.2 Feature

- 1. Per dimension configurable.
- 2. Ignore fluid blocks, such as water and lava.
- 3. Ignore powered snow.

## 5.36.3 Command

5.36.3.1 /rtp

## 5.36.3.1.1 Argument

## 1. --dimension target dimension

## Tip: Improve the performance on rtp

It's highly recommended to pre-gen the world chunks. To gen a new chunk during rtp requires about 2 10 seconds. If a chunk is pre-gen, then it will be fast.

## 5.36.4 Configuration

setup Teleport setup per dimension. Dimensions that are not in the list will be disabled to rtp.

## 5.37 skin

## 5.37.1 Purpose

This module provides skin management.

## **5.37.2** Command

## 5.37.2.1 /skin

## 5.37.3 Configuration

default\_skin The default skin used for player who has no skin set.

random\_skins Random skin for fake-player, if you enable the local skin for fake-player.

## 5.38 system message

## 5.38.1 Purpose

This module provides system message customization.

## Note: What is system message?

Here are some messages that are system message:

- 1. player join and leave server message
- 2. player advancement message
- 3. player death message
- 4. player command feedback
- 5. player whitelist message

## Note: Server-side message and Client-side message

It should be noted that, no all messages inside mojang's official language file are server-side message. If a message is client-side message, which means that the message is only used in client-side, then the module will have no effects on this message.

## Warning: Possible conflicting with StyledChat

If you are using this module with **StyledChat** mod installed, you need to remove the conflicting **language keys** in **key2value** configuration.

See also: https://github.com/sakurawald/fuji/issues/65

## Example: Custom the player join and leave message.

```
"system_message": {
    "enable": true,
    "key2value": {
        "multiplayer.player.joined": "<rainbow>+ %s",
        "multiplayer.player.left": "<dark_gray>%s leeeeeeeeft the game"
    }
},
```

CHAPTER 5. MODULE

## 

```
"system_message": {
    "enable": true,
    "key2value": {
        "commands.seed.success": "<rainbow> Seeeeeeeeeeeee* %s"
    }
},
```

## 5.39 tab\_list

## 5.39.1 Purpose

This module provides tab list customization.

## 5.39.2 Configuration

update\_cron The cron used for the job to update the tab list.
style The style for tab list.

## 5.39.3 Sub-Module

#### 5.39.3.1 sort

#### 5.39.3.1.1 Purpose

If enable this module, the player names in tab list will be sorted by weight.

The default weight is 0, the range of weight is [0, 675], which means you can set at most 676 sort groups.

#### 5.39.3.1.2 How it works

The tab list sort method is client-side decided. So the workaround is to send virtual-player entry to the client-side, and hide the real player in client-side's tablist.

In this case, the client-side will find that, all command target selector will display the virtual-player. And you can see the virtual-player in client-side's Player Reporting UI.

## Note: The virtaul player has no perforamnce issue

The virtual-player is just an entry listed in tab list, when the client ask the server tab list, the server lie with the virtual-player list.

There is not a real player entity in the server side, so no extra performance problem.

The sync method is event-based, and cached, so the performance is good.

#### 5.39.3.1.3 Example

## Example: Set a weight in a group

Issue the command /lp group default meta set fuji.tab\_list.sort.weight 1 After you set a new weight, you should issue /fuji reload or re-connect to refresh the tab-list.

#### 5.39.3.1.4 Sub-Module

**5.39.3.1.4.1** sync game profile

## 5.39.3.1.4.1.1 Purpose

Whether to copy the game profile from real-player to virtual-player.

## $\mathbf{5.39.3.2} \quad \mathbf{faker}$

## $\mathbf{5.39.3.2.1} \quad \mathbf{Purpose}$

This module is used to send random fake data to client.

## 5.40 teleport warmup

## 5.40.1 Purpose

This module adds a warmup cooldown before player-teleportation.

A teleportation will be interrupted if:

- 1. the player runs too far.
- 2. the player gets damage.
- 3. the player is in combat.

## 5.40.2 Configuration

warmup\_second The second to wait before the teleportation.

interrupt distance How far should we cancel the teleportation.

dimension Only allowed in the following dimensions.

#### Warning: Dimensions that created by other mods may have special behaviour

Some other mods will add extra dimension (like, the mod the-bumblezone-fabric). Their dimension portal may work in a different way, so this module may not be compatible with these mods.

In the default options, we only allow this module works in the vanilla minecraft dimensions.

## $5.41 \quad temp\_ban$

## 5.41.1 Purpose

This module provides temp-ban.

## 5.41.2 Command

## 5.41.2.1 /temp-ban

## 5.41.3 Example

## Example:

/temp-ban player Steve 12h30m15s bad boy

## 5.42 tester

## 5.42.1 Purpose

This module is only used for development. If you are a developer, you can register new commands into this module for test-purpose.

## **5.42.2** Command

## 5.42.2.1 /tester

## Warning:

You should not use this module at the production-environment, because it almost does nothing useful.

## 5.43 top\_chunks

## 5.43.1 Purpose

This module compute a **laggy score** for all loaded chunks, and return the topN lagged chunks. Higher score means more lagged.

#### **5.43.2** Command

#### **5.43.2.1** /chunks

## 5.43.3 Configuration

top The top chunks to show in /chunks command

nearest\_distance For a chunk, how much the radius used to search the nearest player around the chunk.

hide\_location Should we hide the chunk-position for a lagged-chunk? Hide chunk location to avoid grief or privacy purpose.

**type2score** The dict to define how lagged a type(entity\_entity\_block) should be. For example:

#### Example: What is the meaning of type2score field?

The configuration means that if there are 15 zombies inside a chunk, then the chunk gets score 15 \* 4 = 60. Any other types not specified in type2score will use the score defined for type **default**.

```
"type2score": {
    "entity.minecraft.zombie": 4,
    "default": 1
}
```

## 5.44 tpa

## 5.44.1 Purpose

This module provides teleport request for players.

## 5.44.2 Command

- 5.44.2.1 /tpa
- **5.44.2.2** /tpahere
- 5.44.2.3 /tpaacept
- 5.44.2.4 /tpadeny
- 5.44.2.5 /tpacancel

## 5.44.3 Configuration

 ${f timeout}$  Tpa request expiration duration, unit is second.

mention\_player See 5.4.2.1.4

## **5.45** view

## 5.45.1 Purpose

This module provides the player slot editor.

## **5.45.2** Command

- **5.45.2.1** /view inv
- **5.45.2.2** /view ender

## 5.46 whitelist

## 5.46.1 Purpose

This module makes the mojang vanilla whitelist system only compares the  ${\bf username}$  and  ${\bf ignore}$   ${\bf UUID}.$ 

Warning: Only enable this module in offline-mode server

If you are hosting a online-mode server, you will never need to enable this module.

## 5.47 works

## 5.47.1 Purpose

This module provides a bill-board gui for players to show their works.

## **5.47.2** Concept

A work is a teleporation point.

The types of work are as follows:

- 1. Non-Production-Work the project don't produce any resource (e.g. bone, string, coal).
- 2. Production-Work the project produce some resource.

Note: The main difference between non-production work and production-work

For a production-work, fuji provides the production sample to count the hopper and minecart-hopper

#### Tip: About the production counter

- 1. You can use the production counter provided by production work to sample the output.
- 2. This module works with carpet-fabric's hopper counter. You can use both of them at the same time.
- 3. The hopper counter provided by this module will not destroy the item.

#### **5.47.3** Command

1. /works

## 5.47.4 Configuration

sample time ms For a production-work, how long should we sample it?

sample\_distance\_limit For a production-work, how large the radius should we considered as the work's production.

sample counter top n For a production-work, we only display the topN output items.

## 5.48 world

## 5.48.1 Purpose

Provides a unified world management.

#### 5.48.2 Command

#### **5.48.2.1** /world

#### **5.48.3** Concept

#### Example: What is the difference between world, dimension and dimension type?

Well, in the early stage of minecraft, a **world** only support **single-dimension**, which means 1 world only contains 1 dimension.

But now, 1 world supports multi dimension. Sometimes, you will see **world** and **dimension** means the same thing.

But clearer, we say: 1 world can contain 1 or more dimension, and each dimension has its dimension type.

Usually, you can say a mod adds extra dimension type and creates an extra dimension with that dimension type instead of creating extra world.

See also: https://minecraft.wiki/w/Dimension\_definition See also: https://minecraft.wiki/w/Dimension\_type

## Tip: The dimension and dimension types in vanilla minecraft

In vanilla minecraft, 1 world contains 3 dimensions:

- 1. minecraft:overworld
- 2. minecraft:the nether
- 3. minecraft:the end

You can see the dimensions of a world in world/level.dat file.

A dimension type is used to create dimensions, the vanilla minecraft has the following dimension type:

- 1. minecraft:overworld
- 2. minecraft:overworld caves
- 3. minecraft: the nether
- 4. minecraft:the end

The file server properties is used for the only and default world.

## 5.48.4 Configuration

**blacklist** The dimensions in the blacklist will not be operated by this module. Use blacklist to avoid mis-operation.

## **5.48.5** Example

Example: Create an extra the nether dimension

/world create my\_nether minecraft:the\_nether

Example: Delete the extra dimension

/world delete fuji:my\_nether

Example: Reset the extra dimension with random seed

/world reset fuji:my\_nether

Example: Specify a seed for an extra dimension.

/world create my\_nether minecraft:the\_nether --seed 1234567890 /world reset --use-the-same-seed true fuji:my\_nether

Tip: Make a resource-world that automatically reset every day

You can use command-scheduler module to execute world reset command automatically.

## 5.49 world downloader

## 5.49.1 Purpose

This module allows a player to download nearby chunks.

## 5.49.2 Configuration

url\_format The url format used to broadcast.

port The port used for downloader http-service.

bytes\_per\_second\_limit Max download speed for each connection.

 ${\bf context\_cache\_size}$  Max download request saved in the memory.

## Chapter 6

# Q&A

## 6.1 Where is the configuration files?

As a convention, all the files are placed in config/fuji/ directory.

## 6.2 What is .json file?

A json file is a text file, whose name normally ends with .json.

## 6.3 How can I edit a configuration file?

To ensure the readable and transparent, most of the files are saved as pure text format. You can open them with a text editor.

## Tip: Use a moderen text editor.

Some files may have a large number of lines, so it's highly recommended to use a modern text editor, which can highlight symbols and reveal the structure of the file, such as:

- 1. Visual Studio Code
- 2. Visual Studio Code Web Online Editor
- 3. Vim
- 4. Emacs
- 5. Sublime Text

## 6.4 What is .dat file?

The file whose name ends with .dat are the vanilla minecraft NBT format file. To open such a file, you need to use a NBT Editor, such as NBTExplorer.

CHAPTER 6. Q&A

## 6.5 How to update fuji to a new version?

## 6.5.1 Backup the data

Back up the config/fuji directory.

## 6.5.2 Test the new version in your test-environment

Put the new version of fuji into mods/ directory, start the server, and adjust the configuration to what you want.

#### Warning: Don't test new changes directly in your production-environment

It's highly recommended to setup a test-environment for a network-maintainer, so that you can test and tweak installed mods into what you want, and avoid un-expected situations.

## 6.5.3 Apply the changes to production-environment

Now, it's ready to apply the changes to your production-environment.

## 6.6 Fuji conflits with one of my mods.

You can disable the conflicting module. If possible, create an issue at fuji issue page, so that we can solve this later.

## 6.7 Can I ask the forge or neoforge support?

We have no plan for forge or neoforge platform. However, you can try running this mod via **sinytra-connector** mod. It's tested the mod works in the following environment (104/104 modules works):

Loader: NeoForge v21.0.167 for Minecraft 1.21 Mods:

- connector-2.0.0-beta.1+1.21-full
- forgified-fabric-api-0.101.2+2.0.10+1.21
- fuji-1.6.3-release-1914a82a84

## 6.8 How can I report bugs or suggest new features?

You can create an issue at fuji issue page

## Chapter 7

## Transformer

## 7.1 Command Transformer

The following commands can be transformed:

```
1. /blockcycling = /give player minecraft:debug_stick
```

- 2. /blockinfo = use the command /info block provided by carpet mod.
- 3. / blocknbt = / data get block
- 4. /entityinfo = /data get entity
- 5. /entitynbt = /data get entity
- 6. /customrecipe =  $\frac{\text{recipe editor}}{}$
- 7.  $/\exp = /\exp(-i\alpha x)$
- 8. /gm, /gms, /gms = /gamemode
- 9. /findbiome = /locate biome
- $10.\ /\mathrm{tempfly} = \mathrm{use}\ \mathtt{luckperms}\ \mathtt{temporal}\ \mathtt{permission}$
- 11. /flyspeed = /attribute player minecraft:generic.flying speed
- 12. /walkspeed = /attribute player minecraft:movement\_speed
- 13. /maxhealth = /attribute player minecraft:generic.max\_health
- 14. /groundclean = /kill @e[type=...]
- 15. /spawner = interact spawner block with spawn egg
- 16. /spawnmob = /summon
- 17. /shoot = /summon with motion
- 18. /smite, /thunder = /summon minecraft:lighting bolt

- 19. /stats, /statsedit = all stats files are located in world/stats
- $20.\ /\mathrm{tree} = \mathrm{use}\ \mathrm{tree}\ \mathrm{brush}\ \mathrm{from}\ \mathrm{world-edit}\ \mathrm{mod}$
- 21. /unbreakable = /enchant player minecraft:unbreaking
- 22. /item maker = /give
- 23. /replaceblock = /setblock
- $24. \ \ chunks\ loading/unloading\ commands = These\ commands\ will\ not\ bring\ performance\ improvements.$
- 25. /note = /attachment get note
- 26.  $/\dots$  all = /foreach  $\dots$
- $27.\ /\mathrm{cuff} = \mathrm{use}$  anti-build module with string permission
- $28.\ / cheque = use \ command-attachment \ module \ to \ make \ magic \ item$

## 7.2 Command Generator

You can generate complex and powerful commands using:

- 1. https://www.digminecraft.com/generators/
- 2. https://minecraft.tools/en/public-gallery.php

# Chapter 8

# Development

## 8.1 Setup the development environment

```
1. Clone the source:
```

```
git clone https://github.com/sakurawald/fuji.git
```

2. Change the working-directory:

```
cd fuji
```

3. Compile the source:

./gradlew build

## Chapter 9

# Suggestion

## 9.1 Suggestion on server-side mods

## 9.1.1 Explanation

Here is some mods that existing and recommended to use, which can make your life easier in fabric server-side crafting.

Note that fuji doesn't require these mods installed to work, and some of these mods have the same functionality as fuji.

If you want to taste something different, and if some of the mods provides a better experience than fuji, then you can just disable the module in fuji, and go use it.

## Tip: Decide according to your situation

The suggestion is personal, you should make decision according to your preference.

## 9.1.2 Server-side mode list

- 1. anti xray
- 2. armor stand editor
- 3. ban hammer
- 4. sit
- 5. carpet
- 6. essential commands
- 7. goml
- 8. head index
- 9. image2map
- 10. inv view
- 11. krypton
- 12. ledger
- 13. lithium
- 14. luckperms
- 15. mod viewer
- 16. ouch
- 17. skin restorer
- 18. spark
- 19. styled chat
- 20. styled nickname
- 21. styled sidebar
- 22. styled player list
- 23. taterzens
- 24. universal graves
- 25. universal shop
- 26. vanilla permission
- 27. vanish
- 28. blue map

- 29. chunky
- 30. husk homes
- 31. mini motd
- 32. tab
- 33. sleep warp
- 34. world-edit