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# **FoolFuuka**

*Release 2.1.0*

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<b>1</b>	<b>Introduction</b>	<b>1</b>
1.1	Features . . . . .	1
<b>2</b>	<b>Requirements</b>	<b>3</b>
2.1	Web Server . . . . .	3
2.2	Database . . . . .	3
2.3	Git/Composer . . . . .	3
2.4	PHP/HHVM . . . . .	3
2.5	Search Server . . . . .	4
2.6	ImageMagick . . . . .	4
<b>3</b>	<b>Installation</b>	<b>5</b>
3.1	Install . . . . .	5
3.2	Upgrading . . . . .	5
<b>4</b>	<b>Configuration</b>	<b>7</b>
4.1	FoolFrame . . . . .	7
4.2	FoolFuuka . . . . .	10
<b>5</b>	<b>CHANGELOG</b>	<b>11</b>
5.1	What's New in FoolFuuka 2.2.0 . . . . .	11
<b>6</b>	<b>User Guide</b>	<b>13</b>
6.1	Asagi . . . . .	13
6.2	Upgrade Guide . . . . .	14
<b>7</b>	<b>Developer Guide</b>	<b>17</b>
7.1	Code Documentation . . . . .	17
7.2	Contribute . . . . .	24



# Introduction

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FoolFuuka was designed to accomplish two different goals: (1) function as an image-based bulletin board software, and (2) provide a functional front-end interface for *Asagi*. In order to accomplish the latter, you'll need to prepare and configure your server environment properly.

## 1.1 Features



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## Requirements

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### 2.1 Web Server

You'll need to install one of the following web servers to allow users to access the web interface:

- Apache
- nginx (Recommended)

**See also:**

[Virtual Hosts Examples](#)

### 2.2 Database

FoolFuuka supports the following database servers:

- MariaDB 5.5+ (Recommended)
- MySQL 5.5+

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**Note:** When dealing with large amounts of data, we recommend using the `TokuDB` storage engine for all board tables which is available with MariaDB. This mainly applies to deployments used to provide a front-end for [Asagi](#) and archives.

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### 2.3 Git/Composer

FoolFuuka utilizes both [Git](#) and [Composer](#) to manage all of its dependencies, software updates, and web assets.

### 2.4 PHP/HHVM

While FoolFuuka is designed to work on PHP 5.4 or newer, it is also compatible with HHVM.

## 2.5 Search Server

FoolFuuka requires an additional software to index and serve search results to users. This is achieved with [Sphinx Open Source Search Server](#) which must be installed to provide users with search capabilities.

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**Note:** FoolFuuka includes a Sphinx configuration file generator in the web administration interface and should be used to generate a new sphinx configuration file accordingly.

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## 2.6 ImageMagick

If you plan to use FoolFuuka as an image-based bulletin board, ImageMagick must be installed on the server. The binary files are used to generate and manipulate image files.

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**Note:** You may be required to specify the path for ImageMagick's `convert` binary in the administrative panel.

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## Installation

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### 3.1 Install

#### 3.1.1 Via Composer

```
$ composer create-project foolz/foolfuuka foolfuuka --prefer-source
$ cd foolfuuka
$ composer dump-autoload --optimize
```

**Warning:** When asked to remove the VCS files (.git), you must choose N so that the version control system remains intact. This will allow you to perform future upgrades.

#### 3.1.2 Via Source Code

```
$ git clone https://github.com/FoolCode/FoolFuuka foolfuuka
$ cd foolfuuka
$ git checkout 2-2-stable
$ composer install --optimize-autoloader
```

### 3.2 Upgrading

```
$ git fetch --all
$ git checkout 2-2-stable
$ composer update --optimize-autoloader
```

**Note:** The commands provided above will only upgrade the FoolFuuka code. You may be required to complete some additional steps to completely upgrade FoolFuuka to the next version. Please consult the upgrade guides to ensure that the upgrade process is done properly.

**See also:**

[Upgrade Guide](#)



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## Configuration

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While most of the configurable settings are exposed through the web administrative panel, there are still a number of settings that can only be modified manually due to security concerns.

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**Note:** In this documentation, we will use `dot` notations to specify the location of the config key being listed.

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### 4.1 FoolFrame

These config files are used to manage many of the core settings in the FoolFuuka framework. You can locate these files in the following path after installation: `vendor/foolz/foolframe/config/`.

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**Note:** We recommend that you copy these config files into and edit them in the following directory: `app/foolz/foolframe/config/`. The software is designed to load these files instead of the default config files.

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#### 4.1.1 cache

**type**

**Type** STRING

**Default** dummy

**format**

**Type** STRING

**Default** smart\_json

**prefix**

**Type** STRING

**Default** empty

**servers**

**Type** ARRAY

**Default** empty

## 4.1.2 config

**config.cookie\_prefix**

Type STRING

Default empty

**install.installed**

Type BOOLEAN

Default false

**modules.installed**

Type ARRAY

## 4.1.3 db

**active**

Type STRING

Default default

**default.driver**

Type STRING

Default pdo\_mysql

**default.host**

Type STRING

Default localhost

**default.port**

Type INT

Default 3306

**default.dbname**

Type STRING

Default empty

**default.user**

Type STRING

Default empty

**default.password**

Type STRING

Default empty

**default.persistent**

Type BOOLEAN

Default false

**default.prefix**

Type STRING

Default empty

**default.charset**

Type STRING

Default utf8mb4

#### 4.1.4 foolauth

**db\_connection**

Type STRING

Default null

**table\_name**

Type STRING

Default users

**table\_autologin\_name**

Type STRING

Default user\_autologin

**table\_login\_attempts\_name**

Type STRING

Default user\_login\_attempts

**table\_columns**

Type ARRAY

**guest\_login**

Type BOOLEAN

Default true

**groups**

Type ARRAY

**roles**

Type ARRAY

**login\_hash\_salt**

Type STRING

Default empty

**salt**

Type STRING

Default empty

**username\_post\_key**

**Type** STRING

**Default** username

**password\_post\_key**

**Type** STRING

**Default** password

**attempts\_to\_lock**

**Type** INT

**Default** 10

## 4.2 FoolFuuka

These config files are used to manage many of the core settings in FoolFuuka that we considered very important and shouldn't be exposed in the web interface. You can locate these files in the following path after installation: `assets/config/`.

---

**Note:** We recommend that you copy these config files into and edit them in the following directory: `app/foolz/foolfuuka/config/`. The software is designed to load these files instead of the default config files.

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### 4.2.1 config

**comment.secure\_tripcode\_salt**

**Type** STRING

**Default** null

This is the salt used to for secure tripcodes. It is recommend that this salt key be changed when exposed or kept consistent between installations.

**media.filecheck**

**Type** BOOLEAN

**Default** true

Checks if the media file exists on the disk. The setting does impact disk performance when enabled due to `lstat` calls for each file being checked.

Value	Effect
<code>true</code>	enables the check and returns a generated link based on file existence
<code>false</code>	disables the check and returns a full link

### 4.2.2 foolauth

**roles**

**Type** ARRAY

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## CHANGELOG

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### 5.1 What's New in FoolFuuka 2.2.0

FoolFuuka 2.2.0 includes a few new features and an overhaul in parts of the code base. The most notable change is the removal of all plugins from the standard distribution which will need to be re-installed manually.

#### 5.1.1 Features

- added GroupByThread option for search results
- added highlight.js for code highlighting
- added configurable *swiftmailer* config file for Mailer

#### 5.1.2 Performance

- changed autoloading of themes and various components to PSR-4
- removed entire *media.filecheck* logic

#### 5.1.3 Fixes

- removed trailing forward-slash in default media url
- reports view now displays board name and view button
- rewrote sticky/locked toggle logic on archive boards

#### 5.1.4 Misc.

- added additional software hooks in *Comment*
- decoupled all plugins from standard distribution
- moved 4chan specific BBCode to separate plugin
- replaced StringParser with jBBCode
- updated FoolFuuka namespace
- updated FoolFuuka dependencies





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## 6.1 Asagi

### 6.1.1 Requirements

- Asagi
- JDK 7
- Maven

### 6.1.2 Compiling Asagi

```
$ git clone https://github.com/FoolCode/asagi.git
$ mvn package assembly:single
```

### 6.1.3 Configuring Asagi

Asagi uses a JSON configuration file named `asagi.json`. An example configuration file is included within the git repository as `asagi.json.example`.

**Warning:** If you are using MySQL/MariaDB as your database server, you must set the `character_set_server` setting under the `[mysqld]` section to `utf8mb4` in your `my.cnf` file. This will allow you to properly store multi-byte unicode characters properly.

**Note:** We recommend that you configure [Asagi](#) to use its own database and configure your database server to allow the account created for FoolFuuka to have full access to the [Asagi](#) database as well.

### 6.1.4 Running Asagi

```
$ java -Xmx256m -XX:+UseParNewGC -XX:MaxPermSize=24m -jar asagi.jar
```

**Note:** We strongly recommend the usage of `screen` or `tmux` with `Asagi`. Also, you may be required to adjust the `Xmx` and `XX:MaxPermSize` values accordingly.

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### 6.1.5 Configuring FoolFuuka

**Warning:** It is very crucial that you configure and run/restart `Asagi` before adding the board to FoolFuuka. This will allow `Asagi` to create the board tables properly with some additional steps that aren't included in FoolFuuka. If this is not done, the board tables will not be populated properly.

You must first configure FoolFuuka to use the `Asagi` database created in the previous steps. This can be done by following the steps listed below:

1. Access the FoolFuuka Administrative Panel
2. Navigate to `Preferences` under the `Boards` section
3. Set the `Boards Database` field to the same database name used in the `asagi.json` config file
4. Save your changes

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**Note:** The steps listed above only need to be completed once.

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In order to access the boards being archived with `Asagi`, you will need to add the boards to FoolFuuka by following the steps listed below:

1. Access the FoolFuuka Administrative Panel
2. Navigate to `Manage` under the `Boards` section
3. Click “Add Board”
4. Fill out the required fields properly
5. Check the “Is this an archived board?” checkbox
6. Click “Submit” to add the board to the database

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**Note:** You will need to repeat the steps listed above each time you wish to add a board archived by `Asagi`.

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## 6.2 Upgrade Guide

### 6.2.1 From 2.0 to 2.1

As of 2.1.0, we've deprecated the original FoolFuuka installer repository and changed the folder structure of the FoolFuuka installations.

#### Backup

You will need to create a backup of the following folders or move them to a new location:

- app/
- public/foolfuuka/boards/

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**Note:** Depending upon your configuration, you may not need to backup the `public/foolfuuka/boards/` directory.

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## Obtain the Latest Code

You can install the latest stable version of 2.1 by using one of the following methods:

### Via Composer

```
$ composer create-project foolz/foolfuuka foolfuuka 2.1.0
$ cd foolfuuka
$ composer dump-autoload --optimize
```

### Via Source Code

```
$ git clone https://github.com/FoolCode/FoolFuuka foolfuuka
$ cd foolfuuka
$ git checkout 2-1-stable
$ composer install --optimize-autoloader
```

## Copy App Files and Data

You will need to restore the following folders from the backup to the same locations:

- app/
- public/foolfuuka/boards/

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**Note:** Depending upon your configuration, you may not need to restore the `public/foolfuuka/boards/` directory.

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## 6.2.2 From 2.1 to 2.2

### Backup

We recommend that you create a backup of the following folders or move them to a safe location:

- app/
- public/foolfuuka/boards/

---

**Note:** Depending upon your configuration, you may not need to backup the `public/foolfuuka/boards/` directory.

---

### Obtain the Latest Code

```
$ cd /path/to/foolfuuka
$ git checkout 2-2-stable
$ composer update --optimize-autoloader
```

### Update Core Framework Config Files

You are required to update the `app/foolz/foolframe/config/config.php` file to match the following config provided:

```
<?php
return array(
    'config' => array(
        'cookie_prefix' => 'foolframe_NEW_',
    ),
    'install' => array(
        'installed' => true,
    ),
    'modules' => array(
        'installed' => array(
            'foolframe' => array(
                'context' => '\\Foolz\\FoolFrame\\Model\\Context',
                'namespace' => 'foolz/foolframe',
            ),
            'foolfuuka' => array(
                'context' => '\\Foolz\\FoolFuuka\\Model\\Context',
                'namespace' => 'foolz/foolfuuka',
            ),
        ),
    ),
);
```

### Restart Services

You may need to restart the following services:

- PHP/HHVM
- Apache/Nginx/etc.

## 7.1 Code Documentation

### 7.1.1 REST API

#### Index

GET `/_/api/chan/index/`

Property	Type	Description	Required
board	<i>string</i>	This is the shortname for the board.	Y
page	<i>integer</i>	The page number of the index.	Y

```
{
  "2": {
    "omitted": 10,
    "images_omitted": 10,
    "op": {
      "<POST OBJECT>"
    },
    "posts": [
      {
        "<POST OBJECT>"
      }
    ]
  },
  "1": {
    "omitted": 10,
    "images_omitted": 10,
    "op": {
      "<POST OBJECT>"
    },
    "posts": [
      {
        "<POST OBJECT>"
      }
    ]
  }
}
```

## Search

GET `/_/api/chan/search/`

Property	Type	Description	Required
board	<i>mixed</i>	This is the shortname for the board.	Y
email	<i>string</i>		N
username	<i>string</i>		N
tripcode	<i>string</i>		N
capcode	<i>string</i>		N
subject	<i>string</i>		N
text	<i>string</i>		N
filename	<i>string</i>		N
filehash	<i>string</i>		N
deleted	<i>integer</i>		N
ghost	<i>integer</i>		N
filter	<i>integer</i>		N
date_start	<i>string</i>		N
date_end	<i>string</i>		N
order	<i>string</i>		N

```
[
  {
    "posts": [
      {
        "<POST OBJECT>"
      },
      {
        "<POST OBJECT>"
      }
    ]
  }
]
```

## Thread

GET `/_/api/chan/thread/?board=dev&num=1`

Property	Type	Description	Required
board	<i>string</i>	This is the shortname for the board.	Y
num	<i>integer</i>	This is the post number of the thread.	Y
latest_doc_id	<i>integer</i>	This is the latest <i>doc_id</i> used as a starting point.	N
last_limit	<i>integer</i>	This limits the results to the last <i>x</i> posts.	N

```
{
  "1": {
    "op": {
      "<POST OBJECT>"
    },
    "posts": {
      "2": {
        "<POST OBJECT>"
      },
      "3": {
        "<POST OBJECT>"
      }
    }
  }
}
```

```

}
}
}

```

## Post

GET `/_/api/chan/post/?board=dev&num=1`

Property	Type	Description	Required
board	<i>string</i>	This is the shortname for the board.	Y
num	<i>mixed</i>	This is the post number.	Y

```

{
  "doc_id": "1",
  "poster_ip": "1111111111",
  "num": "1",
  "subnum": "0",
  "thread_num": "1",
  "op": "1",
  "timestamp": "1339024666",
  "timestamp_expired": "0",
  "capcode": "A",
  "email": null,
  "name": "Anonymous",
  "trip": null,
  "title": null,
  "comment": "COMMENT DATA HERE",
  "poster_hash": "fUSBgQ2y",
  "poster_country": null,
  "deleted": "0",
  "sticky": "0",
  "comment_processed": "COMMENT DATA HERE",
  "title_processed": "",
  "name_processed": "Anonymous",
  "email_processed": "",
  "trip_processed": "",
  "poster_hash_processed": "fUSBgQ2y",
  "fourchan_date": "6\6\12(Wed)23:17",
  "comment_sanitized": "COMMENT DATA HERE",
  "poster_country_name_processed": null,
  "media": {
    "op": "1",
    "media_id": "1024",
    "spoiler": "0",
    "preview_orig": "13390246665411s.jpg",
    "preview_w": "216",
    "preview_h": "250",
    "media_filename": "8211205.jpg",
    "media_w": "742",
    "media_h": "860",
    "media_size": "130990",
    "media_hash": "P2asAleYuUWVvEFBotaaxA==",
    "media_orig": "13390246665411.jpg",
    "exif": null,
    "total": "1",
    "banned": "0",
    "media": "13390246665411.jpg",

```

```
"preview_op": "13390246665411s.jpg",
"preview_reply": null,
"media_status": "normal",
"safe_media_hash": "P2asAleYuUWVvEFBotaaxA",
"preview_orig_processed": "13390246665411s.jpg",
"media_filename_processed": "8211205.jpg",
"media_hash_processed": "P2asAleYuUWVvEFBotaaxA==",
"media_link": "https://0-media-cdn.foolz.us/ffuuka/board/dev/image/1339/02/13390246665411s.jpg",
"remote_media_link": "https://0-media-cdn.foolz.us/ffuuka/board/dev/image/1339/02/13390246665411s.jpg",
"thumb_link": "https://0-media-cdn.foolz.us/ffuuka/board/dev/thumb/1339/02/13390246665411s.jpg"
}
}
```

## 7.1.2 Software Hooks

### Plugin

#### Foolz\Plugin\Plugin::execute#<plugin-name>

```
->setObject($plugin)
->setParam('context', $this->getContext())
```

#### Foolz\FoolFrame\Model\Plugin::install#<plugin-name>

```
->setParam('context', $this->getContext())
->setParam('schema', $sm->getCodedSchema())
```

### FoolFrame

#### Foolz\FoolFrame\Controller\Admin::before#var.sidebar

```
->setObject($this)
->setParam('sidebar', [])
```

#### Foolz\FoolFrame\Model\Context::handleConsole#obj.app

```
->setObject($this)
->setParam('application', $application)
```

#### Foolz\FoolFrame\Model\Context::handleWeb#obj.afterAuth

```
->setObject($this)
->setParam('route_collection', $this->route_collection)
```



**Foolz\FoolFrame\Model\Context::handleWeb#obj.routing**

```
->setObject($this)
->setParam('route_collection', $this->route_collection)
```

**Foolz\FoolFrame\Model\Context::handleWeb#obj.context**

```
->setObject($this)
```

**Foolz\FoolFrame\Model\Context::handleWeb#obj.request**

```
->setObject($this)
->setParam('request', $request)
```

**Foolz\FoolFrame\Model\Context::handleWeb#obj.response**

```
->setObject($this)
->setParam('request', $request)
```

**Foolz\FoolFrame\Model\Preferences::load#var.preferences**

```
->setObject($this)
->setParam('preferences', $this->preferences)
```

**Foolz\FoolFrame\Model\SchemaManager::forge#var.ignorePrefix**

```
->setObject(new static())
->setParam('prefixes', $prefixes)
```

**Foolz\FoolFrame\Model\SchemaManager::forge#var.tables**

```
->setObject(new static())
->setParam('tables', $tables)
```

**Foolz\FoolFrame\Model\System::getEnvironment#var.environment**

```
->setParam('environment', $environment)
```

**FoolFuuka****Foolz\FoolFuuka\Model\Comment::processComment#var.greentext**

```
->setParam('html', $html)
```

### Foolz\FoolFuuka\Model\Comment::processComment#var.originalComment

```
->setObject($this)  
->setParam('comment', $this->comment->comment)
```

### Foolz\FoolFuuka\Model\Comment::processComment#var.processedComment

```
->setObject($this)  
->setParam('comment', $this->comment->comment)
```

### Foolz\FoolFuuka\Model\Comment::processCommentBBCode#var.definitions

```
->setObject($this)  
->setParam('definitions', $definitions)
```

### Foolz\FoolFuuka\Model\Comment::processExternalLinks#var.link

```
->setObject($this)  
->setParam('data', $data)  
->setParam('build_href', $build_href)
```

### Foolz\FoolFuuka\Model\Comment::processInternalLinks#var.link

```
->setObject($this)  
->setParam('data', $data)  
->setParam('build_url', $build_url)
```

### Foolz\FoolFuuka\Model\CommentInsert::insert#obj.captcha

```
->setObject($this)
```

### Foolz\FoolFuuka\Model\CommentInsert::insert#obj.afterInputCheck

```
->setObject($this)
```

### Foolz\FoolFuuka\Model\CommentInsert::insert#obj.comment

```
->setObject($this)
```

**Fool\FoolFuuka\Model\Context::loadRoutes#obj.beforeRouting**

```
->setObject($this)
->setParam('route_collection', $route_collection)
```

**Fool\FoolFuuka\Model\Context::loadRoutes#var.collection**

```
->setParam('default_suffix', page)
->setParam('suffix', page)
->setParam('controller', 'Foolz\FoolFuuka\Controller\Chan::*')
```

**Fool\FoolFuuka\Model\Context::loadRoutes#obj.afterRouting**

```
->setObject($this)
->setParam('route_collection', $route_collection)
```

**Fool\FoolFuuka\Model\Media::getLink#exec.beforeMethod**

```
->setObject($this)
->setParam('thumbnail', $thumbnail)
```

**Fool\FoolFuuka\Model\Media::insert#var.media**

```
->setParam('dimensions', $dimensions)
->setParam('file', $file)
->setParam('name', $name)
->setParam('path', $path)
->setParam('hash', $hash)
->setParam('size', $size)
->setParam('time', $time)
->setParam('media_orig', $media_orig)
->setParam('preview_orig', $preview_orig)
```

**Fool\FoolFuuka\Model\Media::insert#exec.createThumbnail**

```
->setObject($this)
->setParam('is_op', $is_op)
->setParam('media', $media)
->setParam('thumb', $thumb)
->setParam('thumb_width', $thumb_width)
->setParam('thumb_height', $thumb_height)
->setParam('exec', $exec)
```

**Fool\FoolFuuka\Model\MediaFactory::forgeFromUpload#var.config**

```
->setParam('ext_whitelist', [])
->setParam('mime_whitelist', [])
```

### Fool\FoolFuuka\Model\RadixCollection::structure#var.structure

```
->setParam('structure', $structure)
```

### Fool\FoolFuuka\Model\RadixCollection::preload#var.radixes

```
->setObject($this)  
->setParam('preloaded_radixes', $this->preloaded_radixes)
```

## 7.2 Contribute

### 7.2.1 Coding Guidelines

FoolFuuka follows the *PSR-0* and *PSR-0* coding standards. In addition to these standards, the guidelines listed below must be followed as well:

- Function and Control Structure opening { MUST BE on a separate line

### 7.2.2 IRC Channel

We have an IRC channel on the IRCHighWay network that can be used to discuss issues, feature requests, and various other related topics at #fooldriver.

### 7.2.3 Issue Tracker

You can find our issue tracker at our [FoolFuuka GitHub](#) repository.