# **Rocket Snake Documentation**

Release 0.1.5

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**Rocket Snake** 

A python async API client for the https://rocketleaguestats.com/ api. Get an api key here.

## **Status**

Stable and supports all the RLS features.

## **Documentation?**

Check the docs directory or read the online documentation on readthedocs.

Installation

### At the command line:

\$ pip install rocket\_snake

### Or, if you have virtualenvwrapper installed:

\$ mkvirtualenv rocket\_snake
\$ pip install rocket\_snake

Usage

To use Rocket Snake in a project:

```
import asyncio
import rocket_snake as rs
from pprint import pprint
async def example_function():
   client = rs.RLS_Client("API KEY GOES HERE")
   print("\nPlaylists:")
   pprint(await client.get_playlists())
   print("\nSeasons:")
   pprint(await client.get_seasons())
   print("\nPlatforms:")
   pprint(await client.get_platforms())
   print("\nTiers:")
   pprint(await client.get_tiers())
print("Creating and starting an asyncio event loop...")
my_loop = asyncio.get_event_loop()
my_loop.run_until_complete(example_function())
print("The event loop has now exited after executing the example.")
```

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### **API** Reference

The following section outlines the API of Rocket Snake.

## **The Client**

#### **Parameters**

- api\_key (str) The key for the https://rocketleaguestats.com api. If not supplied, an InvalidArgumentException will be thrown.
- auto\_rate\_limit (bool, default is True.) If the api should automatically delay execution of request to satisfy the default ratelimiting. When this is True automatic ratelimiting is enabled.
- event\_loop (asyncio.AbstractEventLoop) The asyncio event loop that should be used. If not supplied, the default one returned by asyncio.get\_event\_loop() is used.
- \_api\_version What version endpoint to use. Do not change if you don't know what you're doing.
- \_api\_version int, default is 1.

### get\_platforms()

Gets the supported platforms for the api.

:return The platforms. :rtype list of str.

get\_player (unique\_id: str, platform: str)

Gets a single player from the api for a single player.

#### **Parameters**

- unique\_id (str.) The string to search for. Depending on the platform parameter, this can represent Xbox Gamertag, Xbox user ID, steam 64 ID, or PSN username.
- platform (One of the platform constants in rocket\_snake.constants, they are all str.) The platform to search on. This should be one of the platforms defined in rocket\_snake/constants.py.

:return A data\_classes.Player object. :rtype A data\_classes.Player, which is the player that was requested. :raise: exceptions.APINotFoundError if the player could be found.

#### get\_players (unique\_id\_platform\_pairs: list)

Does what RLS\_Client.get\_player() does but for up to 10 players at once.

**Warning:** This function can take really long to execute, sometimes up to 15 seconds or more. This is because the API automatically updates the users' data from Rocket League itself, and sometimes doesn't. There is currently no way of finding out how long using this function will take, as the API sometimes doesn't update the users' data, and therefore returns the data quickly.

Parameters unique\_id\_platform\_pairs (A list of :tuples:'tuple's of unique ids and platform, where both the unique ids and platforms are strings. The platform strings can be found in :mod:'rocket\_snake.constants', and the unique ids are of the same type as what RLS\_Client.get\_player() uses. Example: [("ExampleUniqueID1", constants.STEAM), ("ExampleUniqueID1OnXBOX", constants. XBOX1)]) - The users you want to search for. These are specified by unique id and platform.

:return The players that could be found. :rtype A list of data\_classes.Player objects.

If a player could not be found, the corresponding index (the index in the unique\_id\_platform\_pairs list) in the returned list will be None.

#### get\_playlists()

Gets the supported playlists for the api.

:return The supported playlists (basically gamemodes, separate per platform) for the api. :rtype A list of data\_classes.Playlists.

### get\_ranked\_leaderboard(playlist)

Gets the leaderboard for ranked playlists from RLS.

**Parameters playlist** (A data\_classes.Playlist or int if you pass a playlist id.) — The playlist you want to get a leaderboard for.

**:return The leaderboard, that is, the top players in the requested ranked playlist.** The list is usually around 100 players long.

:rtype A list of data\_classes.Player objects, where the first one is the one with the highest rank in the requested playlist and current season, and the list is descending.

#### get seasons()

Gets the supported seasons for the api.

:return The supported seasons for the api. One of them has Season.time\_ended == None, and Season.is\_c which means it's the current season.

 $: rtype\ A\ \texttt{list}\ of\ \texttt{data\_classes}. \texttt{Seasons}.$ 

#### get stats leaderboard(stat type: str)

Gets a list of the top 100 rocket league players according to a specified stat.

**Parameters stat\_type** (One of the LEADERBOARD\_\* constants in rocket\_snake. constants.) – What statistic you want to get a leaderboard for.

return A ordered list of Player objects, where the first one is the one with the highest stat (descending). rtype A list of data\_classes.Player objects, where the first one is the one with the highest amount of the requested stat, and the list is descending.

#### get\_tiers()

Gets the supported tiers for the api.

:return The supported tiers for the api. :rtype A list of data\_classes. Tiers.

```
search_player (display_name: str, get_all: bool = False)
```

Searches for a displayname and returns the results, this does not search all of Rocket League, but only the https://rocketleaguestats.com database.

#### **Parameters**

- **display\_name** (str) The displayname you want to search for.
- get\_all Whether to get all search results or not. If this is True, the function may take many seconds to return, since it will get all the search results from the API one page at a time. If this is False, the function will only return with the first (called "page" in the http api) 20 results or less.

:type bool, default is False. :return The search results. :rtype A list of data\_classes.Player objects, where the first one is the top result.

If the search didn't return any players, this list is empty ([]).

## The Exceptions

This module (rocket\_snake.exceptions) defines the exceptions that are specific to Rocket Snake. All of them are subclasses of some builtins exception, but not all of them are direct subclasses.

```
class exceptions.NoAPIKeyError
```

A subclass of ValueError, and is raised when an API key isn't provided to the RLS\_Client.

```
class exceptions.APIServerError
```

A subclass of ConnectionError, and is raised when the client gets an error when trying to request something from the API server.

```
{f class} exceptions. APINotFoundError
```

A subclass of ConnectionError, and is raised when the API server can't find what was requested (e.g. if a player with the requested displayname doesn't exists)

#### class exceptions.APIBadResponseCodeError

A subclass of ConnectionError, and is raised when the API returns a response code that isn't successful, but can't be identified as a more specific error.

```
{\bf class} \; {\tt exceptions.RatelimitError} \\
```

A subclass of APIBadResponseCodeError, and is raised when the RLS\_Client gets ratelimited by the API server but didn't handle ratelimiting at all or not properly.

class exceptions.InvalidAPIKeyError

A subclass of APIBadResponseCodeError, and is raised when the  $RLS\_Client$  has been initialised with an invalid API key and tries to execute a request to the API server.

### **The Constants**

This module (rocket\_snake.constants) defines constants that are used when requesting information from the API.

**Note:** The value of these should not be hardcoded in your code, since these might change at any time.

These constants are all uppercase. Here is the rundown:

Platform related constants	
Name	Description
STEAM	This is the string that represents Steam as a platform.
PS4	^ But for Playstation 4.
XBOX1	^ But for Xbox One.
ALL_PLATFORMS	A set of the previous platform strings.
STEAM_ID	This is the ID of the steam platform string.
PS4_ID	^ But for Playstation 4.
XBOX1_ID	^ But for Xbox One.
ALL_IDS	A set of the previous platform IDs.
ID_PLATFORM_LUT	A dict with the members of ALL_IDS as keys and the members of ALL_PLATFORMS
	as values.
PLATFORM_ID_LUT	The inverse of ID_PLATFORM_LUT, that is, platforms as keys and IDs as values.

Leaderboard related constants		
Name	Description	
LEADERBOARD_WINS	This is the string that represents a leaderboard based/filtered on number of wins.	
LEADERBOARD_GOALS	^ But for number of goals.	
LEADERBOARD_MVPS	^ But for number of MVPs.	
LEADERBOARD_SAVES	^ But for number of saves.	
LEADERBOARD_SHOTS	^ But for number of shots.	
LEADERBOARD_ASSISTS	^ But for number of assists	
LEADERBOARD_TYPES	A set of all the previous leaderboard filter types.	

Platform related constants	
Name	Description
RANKED_DUEL_ID	This is the ID of the ranked duels playlist.
RANKED_DOUBLES_ID	^ But for the ranked doubles playlist.
RANKED_SOLO_STANDARD_ID	^ But for the ranked solo standard playlist.
RANKED_STANDARD_ID	^ But for the ranked standard playlist.
RANKED_PLAYLISTS_IDS	A set of all the previous playlist IDs.

## Contributing

Contributions are welcome, and they are greatly appreciated! Every little bit helps, and credit will always be given. You can contribute in many ways:

## **Types of Contributions**

### **Report Bugs**

Report bugs at https://github.com/drummersbrother/rocket\_snake/issues.

If you are reporting a bug, please include:

- Your operating system name and version.
- Any details about your local setup that might be helpful in troubleshooting.
- Detailed steps to reproduce the bug.

### **Fix Bugs**

Look through the GitHub issues for bugs. Anything tagged with "bug" is open to whoever wants to implement it.

### **Implement Features**

Look through the GitHub issues for features. Anything tagged with "feature" is open to whoever wants to implement it.

### **Write Documentation**

Rocket Snake could always use more documentation, whether as part of the official Rocket Snake docs, in docstrings, or even on the web in blog posts, articles, and such.

### **Submit Feedback**

The best way to send feedback is to file an issue at https://github.com/drummersbrother/rocket\_snake/issues.

If you are proposing a feature:

- Explain in detail how it would work.
- Keep the scope as narrow as possible, to make it easier to implement.
- Remember that this is a volunteer-driven project, and that contributions are welcome:)

### **Get Started!**

Ready to contribute? Here's how to set up rocket\_snake for local development.

- 1. Fork the *rocket\_snake* repo on GitHub.
- 2. Clone your fork locally:

```
$ git clone git@github.com:your_name_here/rocket_snake.git
```

3. Install your local copy into a virtualenv. Assuming you have virtualenvwrapper installed, this is how you set up your fork for local development:

```
$ mkvirtualenv rocket_snake
$ cd rocket_snake/
$ python setup.py develop
```

4. Create a branch for local development:

```
$ git checkout -b name-of-your-bugfix-or-feature
```

Now you can make your changes locally.

5. Commit your changes and push your branch to GitHub:

```
$ git add .
$ git commit -m "Your detailed description of your changes."
$ git push origin name-of-your-bugfix-or-feature
```

6. Submit a pull request through the GitHub website.

## **Pull Request Guidelines**

Before you submit a pull request, check that it meets these guidelines:

- 1. The pull request should include tests.
- 2. If the pull request adds functionality, the docs should be updated. Put your new functionality into a function with a docstring, and add the feature to the list in README.rst.

3. The pull request should work for Python 3.5 and 3.6. Check https://travis-ci.org/drummersbrother/rocket_snake/pull_requests and make sure that the tests pass for all supported Python versions.		

Credits

# **Development Lead**

• Hugo Berg <hb11002@icloud.com>

## **Contributors**

None yet. Why not be the first?

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History	

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0.1.5 (2017-08-10)

- Fix possible authorisation key leak in error logs.
- Fix indexing on RankedSeason objects.

# $\mathsf{CHAPTER}\, 9$

0.1.4 (2017-07-24)

• Use the correct loop for async timeouts.

0.1.3 (2017-07-24)

- Add proper CI.
- Improve the documentation.
- Stop checking SSL certs to allow machines with broken cert validation chains.

0.1.2 (2017-07-21)

• First release on PyPI.

0.1.0 (2017-07-21)

• First release on TestPyPI.

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