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**aPRAW**  
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# GETTING STARTED

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aPRAW is an asynchronous Reddit API wrapper.

**Features:**

- Modern Pythonic design using *async/await* syntax.
- Automatic handling of rate-limits.
- Built-in listings and streams for list endpoints.
- Compatible with previous *praw.ini* files.
- Proper OAuth2 support.



## COMMUNITY AND SUPPORT

If you have any questions regarding aPRAW and its usage...

- Join the [/r/aPRAW](#) subreddit
  - Feel free to post a question in the questions thread or make your own post if it could start a big discussion!
- Join the [aPRAW Discord server](#)
  - Use the `#general` chat for discussion about the library and talking to other users.
  - Use the `#questions` to post questions. The developers will try to get back to you as quickly as possible, but other users can help as well!
  - Use the `#ideas` if you have any ideas for the framework but don't know how to implement them, or just want to throw in the suggestion.





## DOCUMENTATION CONTENTS

This is the documentation for aPRAW, a wrapper library for Python to aid in performing asynchronous requests to the Reddit API and interacting with its data. It's split into the following sections.

### 2.1 Introduction

aPRAW serves as an asynchronous alternative to PRAW, and offers certain features and a more modern class design. Those familiar with PRAW will be able to use many features without much additional changes to the code, besides the usage of `async` and `await` syntax.

aPRAW was specifically built with Discord bots in mind, so those interested in creating a Discord bot with `Discord.py` and combining Reddit streams should be able to make use of its asynchronous functionalities.

#### 2.1.1 Prerequisites

aPRAW works with Python 3.6 or higher.

#### 2.1.2 Installing

aPRAW can be installed directly from PyPi:

```
$ pip install aPRAW
```

### 2.2 Quickstart

This section contains a small guide to get started with using aPRAW and its various features.

#### Contents

- *Quickstart*
  - *Creating a Reddit Instance*
  - *Running Asynchronous Code*
  - *Basic Concepts*
    - \* *Instantiating Models*

- \* *Looping Through Items*
- \* *Streaming Items*

## 2.2.1 Creating a Reddit Instance

Currently aPRAW only supports the use of a script auth flow to log in to Reddit and perform requests. Read-only modes as well as the application flow are WIP.

To obtain a `client_id` and `client_secret` for your application, head to Reddit's [App Preferences](#) and create a new app. Follow the guidelines on [Reddit's Quick Start Example](#) to obtain your credentials.

Those credentials can now be used to create a Reddit instance:

```
import apraw

# instantiate a `Reddit` instance
# you can also supply a key to an entry within a praw.ini
# file, making your login compatible with praw as well
reddit = apraw.Reddit(username="USERNAME", password="PASSWORD",
                      client_id="CLIENT_ID", client_secret="CLIENT_SECRET",
                      user_agent="USERAGENT")
```

Those previously making use of a `praw.ini` file can continue to do so, by specifying the key that was used for the client in place of the credentials. aPRAW will then automatically search for the file and save those credentials.

For more information on `praw.ini` files visit [PRAW's documentation](#).

## 2.2.2 Running Asynchronous Code

Since most of aPRAW's code are asynchronous functions or generators, you will want to add your tasks to an event loop such as the `asyncio` one.

For that do the following:

```
import apraw
import asyncio

# instantiate a `Reddit` instance
reddit = apraw.Reddit(client_id="CLIENT_ID", client_secret="CLIENT_SECRET",
                      password="PASSWORD", user_agent="USERAGENT",
                      username="USERNAME")

async def scan_posts():
    # get an instance of a subreddit
    subreddit = await reddit.subreddit("aprawtest")

    # loop through new posts
    async for submission in subreddit.new():
        print(submission.title)

if __name__ == "__main__":
```

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```
# get the asyncio event loop
loop = asyncio.get_event_loop()

# add scan_posts() to the queue and run it
loop.run_until_complete(scan_posts())
```

## 2.2.3 Basic Concepts

aPRAW assumes that all the Reddit items know the logged-in Reddit instance. When grabbing items by using the built-in functions, this will be done automatically through dependency injection.

### Instantiating Models

Most items can be retrieved from the base Reddit object like so:

```
# instantiate a `Reddit` instance
reddit = apraw.Reddit(client_id="CLIENT_ID", client_secret="CLIENT_SECRET",
                    password="PASSWORD", user_agent="USERAGENT",
                    username="USERNAME")

# grab an instance of the /r/aPRAWTest subreddit
subreddit = await reddit.subreddit("aprawtest")

# grab an instance of the /u/aPRAWBot Redditor
redditor = await reddit.redditor("aprawbot")

# grab a test submission made on /r/aPRAWTest
submission = await reddit.submission("h7mna9")

# grab a test comment made on /r/aPRAWTest
comment = await reddit.comment("fulsybg")
```

### Looping Through Items

Most endpoints returning list or “listings” of items are represented by async generators in aPRAW. To grab a set of new posts on a subreddit try this:

```
# get an instance of a subreddit
subreddit = await reddit.subreddit("aprawtest")

# loop through new posts
async for submission in subreddit.new():
    print(submission.id)
```

In cases where *ListingGenerator* is used, **\*\*kwargs** can be passed into the endpoint as well.

## Streaming Items

*ListingGenerator* has a built-in `stream()` method that will poll the Reddit API endpoint it's mapped to, and yield items as they come. This is done in a very efficient manner with an internal tracker for items, an exponential function to increase wait times and the use of `asyncio.sleep()` to ensure non-blocking streams.

Polling an endpoint with *ListingGenerator* is as simple as writing:

```
# get an instance of a subreddit
subreddit = await reddit.subreddit("aprawtest")

# stream new posts
async for submission in subreddit.new.stream():
    print(submission.id)
```

## 2.3 Reddit

### 2.3.1 User

This section describes `User` class as well as `AuthenticatedUser` that contain information about the logged-in user and request credentials.

#### Contents

- *User*
  - *AuthenticatedUser*
  - *Karma*

```
class apraw.models.User(reddit: Reddit, username: str, password: str, client_id: str, client_secret: str,
                        user_agent: str)
```

A class to store the authentication credentials and handle ratelimit information.

**reddit:** **Reddit** The *Reddit* instance with which requests are made.

**username:** **str** The username given to the *Reddit* instance or obtained via `praw.ini`.

**password:** **str** The password given to the *Reddit* instance or obtained via `praw.ini`.

**client\_id:** **str** The client ID given to the *Reddit* instance or obtained via `praw.ini`.

**client\_secret:** **str** The client secret given to the *Reddit* instance or obtained via `praw.ini`.

**user\_agent:** **str** The user agent given to the *Reddit* instance or defaulted to aPRAW's version.

**password\_grant:** **str** The data to be used when making a token request with the 'password' `grant_type`.

**access\_data:** **Dict** A dictionary containing the access token and user agent for request headers.

**token\_expires:** **datetime** The datetime on which the previously retrieved token will expire. Defaults to the past to obtain a token immediately the first time.

**ratelimit\_remaining:** **int** The number of requests remaining in the current ratelimit window.

**ratelimit\_used:** **int** The number of requests previously used in the current ratelimit window.

**ratelimit\_reset:** **datetime** The datetime on which the ratelimit window will be reset.

**async auth\_session()** → aiohttp.client.ClientSession  
 Retrieve an aiohttp.ClientSession with which the authentication token can be obtained.

**Returns session** – The session using the BasicAuth setup to obtain tokens with.

**Return type** aiohttp.ClientSession

**async client\_session()** → aiohttp.client.ClientSession  
 Retrieve the aiohttp.ClientSession with which regular requests are made.

**Returns session** – The session with which requests should be made.

**Return type** aiohttp.ClientSession

**async me()** → *apraw.models.user.AuthenticatedUser*  
 Retrieve an instance of *AuthenticatedUser* for the logged-in user.

**Returns user** – The logged-in user.

**Return type** *AuthenticatedUser*

## AuthenticatedUser

**class** `apraw.models.AuthenticatedUser`(*reddit: Reddit, data: Dict*)

The model representing the logged-in user.

This model inherits from *Reddit* and thus all its attributes and features. View those docs for further information.

**reddit: Reddit** The *Reddit* instance with which requests are made.

**data: Dict** The data obtained from the /about endpoint.

**async karma()** → List[*apraw.models.user.Karma*]

Retrieve the karma breakdown for the logged-in user.

**Returns karma** – The parsed KarmaList for the logged-in user.

**Return type** List[*Karma*]

## Karma

The Karma model represents items in a KarmaList and contains information about the subreddit the karma was obtained on, as well as the amount of link and comment karma.

**class** `apraw.models.Karma`(*reddit: Reddit, data: Dict*)

A model representing subreddit karma.

**reddit: Reddit** The *Reddit* instance with which requests are made.

**data: Dict** The data obtained from the /about endpoint.

### Typical Attributes

This table describes attributes that typically belong to objects of this class. Attributes are dynamically provided by the *aPRAWBase* class and may vary depending on the status of the response and expected objects.

Attribute	Description
<code>sr</code>	The name of the subreddit the karma was obtained on
<code>comment_karma</code>	The amount of karma obtained on the subreddit.
<code>link_karma</code>	The amount of link karma obtained on the subreddit.

**async subreddit()**

Retrieve the subreddit on which the karma was obtained.

**Returns** `subreddit` – The subreddit on which the karma was obtained.

**Return type** *Subreddit*

**Contents**

- *Reddit*

```
class apraw.Reddit(praw_key: str = "", username: str = "", password: str = "", client_id: str = "", client_secret: str = "", user_agent='aPRAW by Dan6erbond')
```

The Reddit instance with which root requests can be made.

**user:** `User` An instance of the logged-in Reddit user.

**comment\_kind:** `str` The prefix that represents *Comment* in API responses, such as `t1`.

**account\_kind:** `str` The prefix that represents *Redditor* in API responses, such as `t2`.

**link\_kind:** `str` The prefix that represents *Submission* in API responses, such as `t3`.

**message\_kind:** `str` The prefix that represents *Message* in API responses, such as `t4`.

**subreddit\_kind:** `str` The prefix that represents *Subreddit* in API responses, such as `t5`.

**award\_kind:** `str` The prefix that represents awards in API responses, such as `t6`.

**modaction\_kind:** `str` The prefix that represents *ModAction* in API responses, such as `modaction`.

**listing\_kind:** `str` The prefix that represents *Listing* in API responses, such as `listing`.

**wiki\_revision\_kind:** `str` The prefix that represents *WikipediaRevision* in API responses, such as `WikiRevision`.

**wikipage\_kind:** `str` The prefix that represents *SubredditWikipedia* in API responses, such as `wikipage`.

**more\_kind:** `str` The prefix that represents *MoreComments* in API responses, such as `more`.

**request\_handler:** `RequestHandler` An instance of `RequestHandler` with which this `Reddit` instance will perform HTTP requests.

```
async comment(id: str = "", url: str = "") → apraw.models.reddit.comment.Comment
```

Get a *Comment* object based on its ID or URL.

**Parameters**

- **id** (`str`) – The ID of a comment (with or without kind).
- **url** (`str`) – The URL of a comment.

**Returns** `comment` – The requested comment.

**Return type** *Comment*

```
async delete(*args, **kwargs) → Any
```

Perform an HTTP DELETE request on the Reddit API.

**Parameters**

- **endpoint** (`str`) – The endpoint to be appended after the base URL (`https://oauth.reddit.com/`).
- **url** (`str`) – The direct URL to perform the request on.

- **kwargs** – Query parameters to be appended after the URL.

**Returns** **resp** – The response JSON data.

**Return type** Any

**async get**(\*args, \*\*kwargs) → Any

Perform an HTTP GET request on the Reddit API.

**Parameters**

- **endpoint** (*str*) – The endpoint to be appended after the base URL (<https://oauth.reddit.com/>).
- **kwargs** – Query parameters to be appended after the URL.

**Returns** **resp** – The response JSON data.

**Return type** Any

**async get\_listing**(*endpoint: str, subreddit: Optional[apraw.models.subreddit.subreddit.Subreddit] = None, kind\_filter: Optional[List[str]] = None, \*\*kwargs*) → *apraw.models.reddit.listing.Listing*

Retrieve a listing from an endpoint.

**Parameters**

- **endpoint** (*str*) – The endpoint to be appended after the base URL (<https://oauth.reddit.com/>).
- **subreddit** (*Subreddit*) – The subreddit to dependency inject into retrieved items when possible.
- **kind\_filter** – Kinds to return if given, otherwise all are returned.
- **kwargs** (*\*\*Dict*) – Query parameters to be appended after the URL.

**Returns** **listing** – The listing containing all the endpoint’s children.

**Return type** *Listing*

**info**(*id: str = "", ids: List[str] = [], url: str = ""*)

Get a Reddit item based on its ID or URL.

**Parameters**

- **id** (*str*) – The item’s ID.
- **ids** (*List[str]*) – Multiple IDs to fetch multiple items at once (max 100).
- **url** (*str*) – The item’s URL.

**Yields**

- **comment** (*Comment*) – A *Comment* object.
- **submission** (*Submission*) – A *Submission* object.

**async message**(*to: Union[str, apraw.models.reddit.redditor.Redditor], subject: str, text: str, from\_sr: Union[str, apraw.models.subreddit.subreddit.Subreddit] = ""*) → bool

Message a Redditor or Subreddit.

**Parameters**

- **to** (*str or Redditor or Subreddit*) – The Redditor or Subreddit the message should be sent to.
- **subject** (*str*) – The subject of the message.

- **text** (*str*) – The text contents of the message.
- **from\_sr** (*str* or `Subreddit`) – Optional if the message is being sent from a subreddit.

**Returns result** – The response JSON data.

**Return type** `Dict`

**async post** (*\*args*, *\*\*kwargs*) → `Any`

Perform an HTTP POST request on the Reddit API.

**Parameters**

- **endpoint** (*str*) – The endpoint to be appended after the base URL (<https://oauth.reddit.com/>).
- **url** (*str*) – The direct URL to perform the request on.
- **data** – The data to add to the POST body.
- **kwargs** – Query parameters to be appended after the URL.

**Returns resp** – The response JSON data.

**Return type** `Any`

**async put** (*\*args*, *\*\*kwargs*) → `Any`

Perform an HTTP PUT request on the Reddit API.

**Parameters**

- **endpoint** (*str*) – The endpoint to be appended after the base URL (<https://oauth.reddit.com/>).
- **url** (*str*) – The direct URL to perform the request on.
- **data** – The data to add to the POST body.
- **kwargs** – Query parameters to be appended after the URL.

**Returns resp** – The response JSON data.

**Return type** `Any`

**async redditor** (*username: str*) → `apraw.models.reddit.redditor.Redditor`

Get a `Redditor` object based the Redditor's username.

**Parameters username** (*str*) – The Redditor's username (without `'/u/'`).

**Returns redditor** – The requested Redditor, returns `None` if not found.

**Return type** `Redditor` or `None`

**async submission** (*id: str = "*, *url: str = ""*) → `apraw.models.reddit.submission.Submission`

Get a `Submission` object based on its ID or URL.

**Parameters**

- **id** (*str*) – The ID of a submission (with or without kind).
- **url** (*str*) – The URL of a submission.

**Returns submission** – The requested submission.

**Return type** `Submission`

**async subreddit** (*display\_name: str*) → `apraw.models.subreddit.subreddit.Subreddit`

Get a `Subreddit` object according to the given name.



**Parameters** `display_name` (*str*) – The display name of the subreddit.

**Returns** `subreddit` – The subreddit if found.

**Return type** *Subreddit*

**subreddits**(\*args, \*\*kwargs)

A *ListingGenerator* that returns newly created subreddits, which can be streamed using `reddit.subreddits.stream()`.

**Parameters** `kwargs` (\*\*Dict) – *ListingGenerator* kwargs.

**Returns** `generator` – A *ListingGenerator* that retrieves newly created subreddits.

**Return type** *ListingGenerator*

## 2.4 aPRAW Models

This section contains the documentation and API of the implemented aPRAW models.

### 2.4.1 Subreddit

This section contains the documentation and API of the subreddit models and helpers.

#### Subreddit

This section describes the usage and members of the Subreddit model.

A subreddit can be instantiated as follows:

```
sub = await reddit.subreddit("aprawtest")
```

**class** `apraw.models.Subreddit`(*reddit: Reddit, data: Dict = None*)

The model representing subreddits.

**kind:** `str` The item's kind / type.

**mod:** `SubredditModeration` Returns an instance of *SubredditModeration*.

**modmail:** `SubredditModmail` Returns an instance of *SubredditModmail*.

**wiki:** `SubredditWiki` Returns an instance of *SubredditWiki*.

#### Examples

To grab new submissions made on a subreddit:

```
sub = await reddit.subreddit("aprawtest")
async for submission in sub.new(): # use .new.stream() for endless polling
    print(submission.title, submission.body)
```

#### Typical Attributes

This table describes attributes that typically belong to objects of this class. Attributes are dynamically provided by the *aPRAWBase* class and may vary depending on the status of the response and expected objects.

Attribute	Description
accounts_active_is_fuzzed	bool
accounts_active	null
active_user_count	The number of active users on the subreddit.
advertiser_category	string
all_original_content	Whether the subreddit requires all content to be OC.
allow_discovery	Whether the subreddit can be discovered.
allow_images	Whether images are allowed as submissions.
allow_videogifs	Whether GIFs are allowed as submissions.
allow_videos	Whether videos are allowed as submissions.
banner_background_color	The banner's background color if applicable, otherwise empty.
banner_background_image	A URL to the subreddit's banner image.
banner_img	A URL to the subreddit's banner image if applicable.
banner_size	The subreddit's banner size if applicable.
can_assign_link_flair	Whether submission flairs can be assigned.
can_assign_user_flair	Whether the user can assign their own flair on the subreddit.
collapse_deleted_comments	Whether deleted comments should be deleted by clients.
comment_score_hide_mins	The minimum comment score to hide.
community_icon	A URL to the subreddit's community icon if applicable.
created_utc	The date on which the subreddit was created in UTC datetime.
created	The time the subreddit was created on.
description_html	The subreddit's description as HTML.
description	The subreddit's short description.
disable_contributor_requests	bool
display_name_prefixed	The subreddit's display name prefixed with 'r/'.
display_name	The subreddit's display name.
emojis_custom_size	The custom size set for emojis.
emojis_enabled	Whether emojis are enabled on this subreddit.
free_form_reports	Whether it's possible to submit free form reports.
has_menu_widget	Whether the subreddit has menu widgets.
header_img	A URL to the subreddit's header image if applicable.
header_size	The subreddit's header size.
header_title	The subreddit's header title.
hide_ads	Whether ads are hidden on this subreddit.
icon_img	A URL to the subreddit's icon image if applicable.
icon_size	The subreddit's icon size.
id	The subreddit's ID.
is_enrolled_in_new_modmail	Whether the subreddit is enrolled in new modmail.
key_color	string
lang	The subreddit's language.
link_flair_enabled	Whether link flairs have been enabled for the subreddit.
link_flair_position	The position of link flairs.
mobile_banner_size	A URL to the subreddit's mobile banner if applicable.
name	The subreddit's fullname (t5_ID).
notification_level	
original_content_tag_enabled	Whether the subreddit has the OC tag enabled.
over18	Whether the subreddit is NSFW.
primary_color	The subreddit's primary color.
public_description_html	The subreddit's public description as HTML.
public_description	The subreddit's public description string.
public_traffic	bool

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Attribute	Description
quarantine	Whether the subreddit is quarantined.
restrict_commenting	Whether comments by users are restricted on the subreddit.
restrict_posting	Whether posts to the subreddit are restricted.
show_media_preview	Whether media previews should be displayed by clients.
show_media	
spoilers_enabled	Whether the spoiler tag is enabled on the subreddit.
submission_type	The types of allowed submissions. Default is “any”.
submit_link_label	The subreddit’s submit label if applicable.
submit_text_html	The HTML submit text if a custom one is set on the subreddit.
submit_text_label	The text used for the submit button.
submit_text	The markdown submit text if a custom one is set on the subreddit.
subreddit_type	The subreddit type, either “public”, “restricted” or “private”.
subscribers	The number of subreddit subscribers.
suggested_comment_sort	The suggested comment sort algorithm, can be null.
title	The subreddit’s banner title.
url	The subreddit’s display name prepended with “/r”.
user_can_flair_in_sr	Whether the user can assign custom flairs (nullable).
user_flair_background_color	The logged in user’s flair background color if applicable.
user_flair_css_class	The logged in user’s flair CSS class.
user_flair_enabled_in_sr	Whether the logged in user’s subreddit flair is enabled.
user_flair_position	The position of user flairs on the subreddit (right or left).
user_flair_richtext	The logged in user’s flair text if applicable.
user_flair_template_id	The logged in user’s flair template ID if applicable.
user_flair_text_color	The logged in user’s flair text color.
user_flair_text	The logged in user’s flair text.
user_flair_type	The logged in user’s flair type.
user_has_favorited	Whether the logged in user has favorited the subreddit.
user_is_banned	Whether the logged in user is banned from the subreddit.
user_is_contributor	Whether the logged in user has contributed to the subreddit.
user_is_moderator	Whether the logged in user is a moderator on the subreddit.
user_is_muted	Whether the logged in user has been muted by the subreddit.
user_is_subscriber	Whether the logged in user is subscribed to the subreddit.
user_sr_flair_enabled	Whether the logged in user’s subreddit flair is enabled.
user_sr_theme_enabled	Whether the logged in user has enabled the custom subreddit theme.
videostream_links_count	The number of submissions with videostream links.
whitelist_status	
wiki_enabled	Whether the subreddit has the wiki enabled.
wls	null

`comments(*args, **kwargs)`

Returns an instance of *ListingGenerator* mapped to the comments endpoint.

**Note:** This listing can be streamed doing the following:

```
for comment in subreddit.comments.stream():
    print(comment)
```

Parameters `kwargs (**Dict)` – *ListingGenerator* kwargs.

**Returns generator** – A *ListingGenerator* mapped to the comments endpoint.

**Return type** *ListingGenerator*

**async fetch()**

Fetch this item's information from a suitable API endpoint.

**Returns self** – The Subreddit model with updated data.

**Return type** *Subreddit*

**hot(\*args, \*\*kwargs)**

Returns an instance of *ListingGenerator* mapped to the hot submissions endpoint.

**Parameters kwargs** (*\*\*Dict*) – *ListingGenerator* kwargs.

**Returns generator** – A *ListingGenerator* mapped to the hot submissions endpoint.

**Return type** *ListingGenerator*

**async message(subject: str, text: str, from\_sr: Union[str, *apraw.models.subreddit.subreddit.Subreddit*] = "")**  
→ *Dict*

Send a message to the subreddit.

**Parameters**

- **subject** (*str*) – The message subject.
- **text** (*str*) – The message contents as markdown.
- **from\_sr** (*str or Subreddit*) – The subreddit the message is being sent from if applicable.

**Returns response** – The API response JSON as a dictionary.

**Return type** *Dict*

**moderators(\*\*kwargs)** → *AsyncIterator[*apraw.models.subreddit.moderation.SubredditModerator*]*

Yields all the subreddit's moderators.

**Parameters kwargs** (*\*\*Dict*) – The query parameters to be added to the GET request.

**Yields moderator** (*SubredditModerator*) – An instance of the moderators as *SubredditModerator*.

**new(\*args, \*\*kwargs)**

Returns an instance of *ListingGenerator* mapped to the new submissions endpoint.

---

**Note:** This listing can be streamed doing the following:

```
for comment in submissions.new.stream():
    print(comment)
```

**Parameters kwargs** (*\*\*Dict*) – *ListingGenerator* kwargs.

**Returns generator** – A *ListingGenerator* mapped to the new submissions endpoint.

**Return type** *ListingGenerator*

**async random()**

Retrieve a random submission from the subreddit.

**Returns submission** – A random submission from the subreddit.

**Return type** *Submission*

**rising**(\*args, \*\*kwargs)

Returns an instance of *ListingGenerator* mapped to the rising submissions endpoint.

**Parameters** **kwargs** (\*\*Dict) – *ListingGenerator* kwargs.

**Returns** **generator** – A *ListingGenerator* mapped to the rising submissions endpoint.

**Return type** *ListingGenerator*

**async submit**(title: str, kind: SubmissionKind, \*\*kwargs) → *Submission*

Make a new post to the subreddit. If *kind* is SubmissionKind.LINK then *url* is expected to be a valid url, otherwise *text* is expected (and it can be markdown text)

**Parameters**

- **title** (str) – The post’s title.
- **kind** (SubmissionKind) – The post’s kind.
- **url** (str) – Optional, the url if kind is LINK.
- **text** (str) – Optional, the text body of the post.
- **nsfw** (bool = False) – If the post is nsfw or not.
- **resubmit** (bool = False) – If the post is a re-submit or not. Needs to be True if a link with the same URL has already been submitted to the specified subreddit
- **spoiler** (bool = False) – If the post is a spoiler or not.

**top**(\*args, \*\*kwargs)

Returns an instance of *ListingGenerator* mapped to the top submissions endpoint.

**Parameters** **kwargs** (\*\*Dict) – *ListingGenerator* kwargs.

**Returns** **generator** – A *ListingGenerator* mapped to the top submissions endpoint.

**Return type** *ListingGenerator*

## Subreddit Moderation

This section details the usage of models related to subreddit moderation.

### Contents

- *Subreddit Moderation*
  - *SubredditModerator*
  - *SubredditModeration*
  - *SubredditSettings*
  - *ModAction*

## SubredditModerator

Subreddit moderators are usually retrieved as follows:

```
sub = await reddit.subreddit("aprawtest")
moderators = []
async for moderator in sub.moderators():
    moderators.append(str(moderator))
```

**class** `apraw.models.SubredditModerator`(*reddit: Reddit, data: Dict*)

The model representing subreddit moderators. Redditors can be retrieved via `redditor()`.

### Typical Attributes

This table describes attributes that typically belong to objects of this class. Attributes are dynamically provided by the `aPRAWBase` class and may vary depending on the status of the response and expected objects.

Attribute	Description
<code>added</code>	The parsed UTC date on which the moderator was added.
<code>author_flair_css_class</code>	The moderator's flair CSS class in the respective subreddit.
<code>author_flair_text</code>	The moderator's flair text in the respective subreddit.
<code>date</code>	The UTC timestamp on which the moderator was added.
<code>id</code>	The Redditor's fullname ( <code>t2_ID</code> ).
<code>mod_permissions</code>	A list of all the moderator permissions or ["all"].
<code>name</code>	The Redditor's name.

### `__str__()`

Returns the Redditor's name.

**Returns** `name` – The Redditor's name.

**Return type** `str`

### `async fetch()`

Fetch this item's information from a suitable API endpoint.

**Returns** `self` – The updated model.

**Return type** `aPRAWBase`

### property `fullname`

Get the ID prepended with its kind.

**Returns** `fullname` – The item's ID prepended with its kind such as `t1_`.

**Return type** `str`

### `async redditor()` → `apraw.models.reddit.redditor.Redditor`

Retrieve the Redditor this Moderator represents.

**Returns** `redditor` – The Redditor that is represented by this object.

**Return type** `Redditor`

## SubredditModeration

Items in the modqueue can be fetched using the modqueue listing:

```
sub = await reddit.subreddit("aprawtest")
async for item in sub.mod.modqueue(): # can also be streamed
    print(type(item))
>>> apraw.models.Comment or apraw.models.Submission
```

**class** `apraw.models.SubredditModeration`(*reddit: Reddit, subreddit: Subreddit*)

A helper class for grabbing listings to Subreddit moderation items.

**edited**(\*args, \*\*kwargs)

Returns an instance of *ListingGenerator* mapped to grab edited items.

---

**Note:** This listing can be streamed doing the following:

```
for comment in subreddit.mod.edited.stream():
    print(comment)
```

---

**Parameters** `kwargs` (\*\*Dict) – *ListingGenerator* kwargs.

**Returns generator** – A *ListingGenerator* mapped to grab edited items.

**Return type** *ListingGenerator*

**log**(\*args, \*\*kwargs)

Returns an instance of *ListingGenerator* mapped to grab mod actions in the subreddit log.

---

**Note:** This listing can be streamed doing the following:

```
for comment in subreddit.mod.log.stream():
    print(comment)
```

---

**Parameters** `kwargs` (\*\*Dict) – *ListingGenerator* kwargs.

**Returns generator** – A *ListingGenerator* mapped to grab mod actions in the subreddit log.

**Return type** *ListingGenerator*

**modqueue**(\*args, \*\*kwargs)

Returns an instance of *ListingGenerator* mapped to grab items in the modqueue.

---

**Note:** This listing can be streamed doing the following:

```
for comment in subreddit.mod.modqueue.stream():
    print(comment)
```

---

**Parameters** `kwargs` (\*\*Dict) – *ListingGenerator* kwargs.

**Returns generator** – A *ListingGenerator* mapped to grab items in the modqueue.

**Return type** *ListingGenerator*

**reports**(\*args, \*\*kwargs)

Returns an instance of *ListingGenerator* mapped to grab reported items.

---

**Note:** This listing can be streamed doing the following:

```
for comment in subreddit.mod.reports.stream():
    print(comment)
```

---

**Parameters** **kwargs** (\*\*Dict) – *ListingGenerator* kwargs.

**Returns** **generator** – A *ListingGenerator* mapped to grab reported items.

**Return type** *ListingGenerator*

**async settings**() → *apraw.models.subreddit.settings.SubredditSettings*

Retrieve the settings for the subreddit this helper works for.

**Returns** **settings** – The subreddit’s settings with their data prefetched.

**Return type** *SubredditSettings*

**spam**(\*args, \*\*kwargs)

Returns an instance of *ListingGenerator* mapped to grab items marked as spam.

---

**Note:** This listing can be streamed doing the following:

```
for comment in subreddit.mod.spam.stream():
    print(comment)
```

---

**Parameters** **kwargs** (\*\*Dict) – *ListingGenerator* kwargs.

**Returns** **generator** – A *ListingGenerator* mapped to grab items marked as spam.

**Return type** *ListingGenerator*

**unmoderated**(\*args, \*\*kwargs)

Returns an instance of *ListingGenerator* mapped to grab unmoderated items.

---

**Note:** This listing can be streamed doing the following:

```
for comment in subreddit.mod.unmoderated.stream():
    print(comment)
```

---

**Parameters** **kwargs** (\*\*Dict) – *ListingGenerator* kwargs.

**Returns** **generator** – A *ListingGenerator* mapped to grab unmoderated items.

**Return type** *ListingGenerator*



## SubredditSettings

**class** `apraw.models.SubredditSettings`(*reddit: Reddit, data: Dict[str, Any], subreddit: Subreddit = None*)

A model representing subreddit settings.

### Typical Attributes

This table describes attributes that typically belong to objects of this class. Attributes are dynamically provided by the `aPRAWBase` class and may vary depending on the status of the response and expected objects.

Attribute	Description
<code>all_original_content</code>	Whether the subreddit only allows original content.
<code>allow_chat_post_creation</code>	Whether the subreddit allows chat post creation.
<code>allow_discovery</code>	Whether this subreddit can be discovered through the recommendations.
<code>allow_galleries</code>	Whether this subreddit allows submissions with galleries.
<code>allow_images</code>	Whether this subreddit allows image posts.
<code>allow_polls</code>	Whether this subreddit allows poll posts.
<code>allow_post_crossposts</code>	Whether this subreddit allows crossposts.
<code>allow_videos</code>	Whether this subreddit allows video submissions.
<code>collapse_deleted_comments</code>	Whether deleted comments in threads should be automatically collapsed.
<code>comment_score_hide_mins</code>	The comment score below which comments should be hidden.
<code>content_options</code>	string
<code>crowd_control_chat_level</code>	int
<code>crowd_control_level</code>	int
<code>crowd_control_mode</code>	bool
<code>default_set</code>	bool
<code>description</code>	The subreddit's short description.
<code>disable_contributor_requests</code>	bool
<code>domain</code>	None
<code>exclude_banned_modqueue</code>	Whether banned users should be excluded from the modqueue.
<code>free_form_reports</code>	Whether users can submit custom text reports.
<code>header_hover_text</code>	The hover text for the subreddit's header.
<code>hide_ads</code>	Whether ads should be hidden on this subreddit.
<code>key_color</code>	string
<code>language</code>	The subreddit's default language as a language code (i.e. "en" for English).
<code>original_content_tag_enabled</code>	Whether the subreddit has the OC tag enabled.
<code>over_18</code>	Whether this subreddit is marked NSFW.
<code>public_description</code>	The subreddit's public description.
<code>public_traffic</code>	bool
<code>restrict_commenting</code>	Whether comments are restricted on the subreddit.
<code>restrict_posting</code>	Whether posts are restricted on the subreddit.
<code>show_media_preview</code>	Whether media previews should be displayed by clients.
<code>show_media</code>	bool
<code>spam_comments</code>	The comment spam filter's setting, either "low", "medium" or "high".
<code>spam_links</code>	The link spam filter's setting, either "low", "medium" or "high".
<code>spam_selfposts</code>	The selfpost spam filter's setting, either "low", "medium" or "high".
<code>spoilers_enabled</code>	Whether the spoiler marker has been enabled on this subreddit.
<code>submit_link_label</code>	The submit button's label.
<code>submit_text_label</code>	The submit text's label.
<code>submit_text</code>	string
<code>subreddit_id</code>	The ID of the subreddit with the prepended kind i.e. t5_.
<code>subreddit_type</code>	One of "public", "private" or "restricted".

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Table 2 – continued from previous page

Attribute	Description
suggested_comment_sort	The default comment sort for submissions.
title	The subreddit's name.
toxicity_threshold_chat_level	int
welcome_message_enabled	Whether the subreddit has enabled welcome messages.
welcome_message_text	The welcome message's text of this subreddit.
wiki_edit_age	The minimum account age requirement for wiki editors.
wiki_edit_karma	The minimum account karma requirement for wiki editors.
wikimode	The mode the wiki is in e.g. "modonly".

**async fetch()** → *apraw.models.subreddit.settings.SubredditSettings*

Fetch this item's information from a suitable API endpoint.

**Returns self** – The SubredditSettings model with updated data.

**Return type** *SubredditSettings*

**property fullname**

Get the ID prepended with its kind.

**Returns fullname** – The item's ID prepended with its kind such as *t1\_*.

**Return type** str

**async subreddit()** → *Subreddit*

Retrieve the subreddit this item was made in as a *Subreddit*.

**Returns subreddit** – The subreddit this item was made in.

**Return type** *Subreddit*

## ModAction

**class** `apraw.models.ModAction(reddit, data, subreddit=None)`

A model representing mod actions taken on specific items.

**reddit: Reddit** The *Reddit* instance with which requests are made.

**data: Dict** The data obtained from the /about endpoint.

**kind: str** The item's kind / type.

### Typical Attributes

This table describes attributes that typically belong to objects of this class. Attributes are dynamically provided by the *aPRAWBase* class and may vary depending on the status of the response and expected objects.

Attribute	Description
action	The type of action performed.
created_utc	The parsed UTC datetime of when the action was performed.
description	The description added to the action if applicable.
details	The details of the action performed.
id	The ID of the mod action prepended with “ <i>ModAction</i> ”.
mod_id36	The ID36 of the moderator who performed the action.
mod	The username of the moderator who performed the action.
sr_id36	The ID36 of the subreddit the action was performed on.
subreddit_name_prefixed	The name of the subreddit the action was performed on prefixed with “r/”.
subreddit	The name of the subreddit the action was performed on.
target_author	The author of the target item if applicable.
target_body	The body of the target item if applicable.
target_fullname	The id of the target with its kind prepended. (e.g. “t3_d5229o”)
target_permalink	The target of the comment or submission if applicable.
target_title	The title of the submission if applicable.

**async mod()** → *apraw.models.reddit.redditor.Redditor*

Returns the Redditor who performed this action.

**Returns redditor** – The Redditor who performed this action.

**Return type** *Redditor*

## Subreddit Banned

This section details the usage of models related to banned users of a subreddit.

### Contents

- *Subreddit Banned*
  - *SubredditBanned*
  - *BannedUser*

## SubredditBanned

A helper class to aid in interacting with a subreddit’s banned users.

## BannedUser

Banned users can be fetched doing the following:

```
sub = await reddit.subreddit("aprawtest")
async for item in sub.banned(): # can also be streamed
    print(type(item))
>>> apraw.models.BannedUser
```

**class** `apraw.models.BannedUser`(*reddit: Reddit, data: Dict, subreddit: Subreddit*)

The model representing banned users on a subreddit. The Redditor can be retrieved via *redditor()*.

### Typical Attributes

This table describes attributes that typically belong to objects of this class. Attributes are dynamically provided by the *aPRAWBase* class and may vary depending on the status of the response and expected objects.

Attribute	Description
<code>banned</code>	The parsed UTC date on which the user was banned.
<code>date</code>	The UTC timestamp on which the user was banned.
<code>days_left</code>	The number of days left for the ban. 0 if permanent.
<code>id</code>	The Redditor's fullname ( <code>t2_ID</code> ).
<code>name</code>	The Redditor's name.
<code>note</code>	The ban note added by the subreddit moderators.
<code>rel_id</code>	<code>str</code>

#### `__str__()`

Returns the Redditor's name.

**Returns** `name` – The Redditor's name.

**Return type** `str`

#### `async fetch()`

Fetch this item's information from a suitable API endpoint.

**Returns** `self` – The updated model.

**Return type** *aPRAWBase*

#### property `fullname`

Get the ID prepended with its kind.

**Returns** `fullname` – The item's ID prepended with its kind such as `t1_`.

**Return type** `str`

#### `async redditor()` → *apraw.models.reddit.redditor.Redditor*

Retrieve the Redditor this Moderator represents.

**Returns** `redditor` – The Redditor that is represented by this object.

**Return type** *Redditor*

## Subreddit Modmail

This section details the usage of models related to subreddit modmail.

### Contents

- *Subreddit Modmail*
  - *ModmailMessage*
  - *SubredditModmail*
  - *ModmailConversation*

## ModmailMessage

**class** `apraw.models.ModmailMessage`(*reddit: Reddit, data: Dict, conversation: apraw.models.subreddit.modmail.ModmailConversation*)

The model for modmail messages.

**conversation: ModmailConversation** The *ModmailConversation* instance this message belongs to.

### Typical Attributes

This table describes attributes that typically belong to objects of this class. Attributes are dynamically provided by the *aPRAWBase* class and may vary depending on the status of the response and expected objects.

Attribute	Description
<code>id</code>	The ID of this message.
<code>body</code>	The HTML body of this message.
<code>body_markdown</code>	The raw body of this message.
<code>body_md</code>	An alias to <code>body_markdown</code> .
<code>is_internal</code>	Whether the message was sent internally.
<code>date</code>	The datetime string on which the message was sent.

**async** `author()` → Optional[*Redditor*]  
Retrieve the author of this message as a *Redditor*.

**Returns** `author` – The author of this modmail message if they haven't been deleted yet.

**Return type** *Redditor* or None

## SubredditModmail

**class** `apraw.models.SubredditModmail`(*reddit: Reddit, subreddit: Subreddit*)  
Helper class to aid in retrieving subreddit modmail.

**async** `__call__(id: str, mark_read=False)` → *apraw.models.subreddit.modmail.ModmailConversation*  
Fetch a *ModmailConversation* by its ID.

**Parameters** `id` (*str*) – The conversation's ID.

**Returns** `conversation` – The conversation requested if it exists.

**Return type** *ModmailConversation*

**conversations() → *apraw.models.subreddit.modmail.ModmailConversation*  
Retrieve a list of modmail conversations.**

**Yields** `conversation` (*ModmailConversation*) – A modmail conversation held in the subreddit.

## ModmailConversation

**class** `apraw.models.ModmailConversation`(*reddit: Reddit, data: Dict, owner: Subreddit = None*)

The model for modmail conversations.

### Typical Attributes

This table describes attributes that typically belong to objects of this class. Attributes are dynamically provided by the `aPRAWBase` class and may vary depending on the status of the response and expected objects.

Attribute	Description
<code>authors</code>	A list of dictionaries containing authors by name with additional meta information such as <code>isMod</code> , <code>isAdmin</code> , <code>isOp</code> , <code>isParticipant</code> , <code>isHidden</code> , <code>id</code> , <code>isDeleted</code> .
<code>id</code>	The ID of this conversation.
<code>is_auto</code>	bool
<code>is_highlighted</code>	Whether the conversation has been highlighted.
<code>is_internal</code>	Whether it's an internal mod conversation.
<code>is_repliable</code>	Whether the conversation can be replied to.
<code>last_mod_update_time</code>	Timestamp of the last moderator update or None.
<code>last_unread</code>	None
<code>last_updated</code>	A timestamp of the last update made overall.
<code>last_user_update_time</code>	Timestamp of the last user update or None.
<code>num_messages</code>	The number of messages in this conversation.
<code>obj_ids</code>	A list of dictionaries containing the objects with their IDs and keys.
<code>owner</code>	A dictionary describing the subreddit this conversation is held in.
<code>participant</code>	Dict
<code>state</code>	int
<code>subject</code>	The subject of this conversation.

### `async archive()`

Archive the modmail conversation.

**Returns** `self` – The updated model.

**Return type** `ModmailConversation`

### `async fetch(mark_read=False)`

Fetch this item's information from a suitable API endpoint.

**Returns** `self` – The updated model.

**Return type** `ModmailConversation`

### `async highlight()`

Highlight the modmail conversation.

**Returns** `self` – The updated model.

**Return type** `ModmailConversation`

### `messages()` → `apraw.models.subreddit.modmail.ModmailMessage`

Retrieve the messages sent in this conversation.

**Yields** `message` (`ModmailMessage`) – A message sent in this conversation.

### `async mute()`

Mute the modmail conversation.

**Returns** `self` – The updated model.

**Return type** *ModmailConversation*

**async owner()** → *Subreddit*

Retrieve the owner subreddit of this conversation.

**Returns owner** – The subreddit this conversation was held in.

**Return type** *Subreddit*

**async remove\_highlight()**

Remove the highlight from the modmail conversation.

**Returns self** – The updated model.

**Return type** *ModmailConversation*

**async reply(*body: str, author\_hidden: bool = False, internal: bool = False*)**

Reply to the modmail conversation.

**Parameters**

- **body** (*str*) – The markdown reply body.
- **author\_hidden** (*bool*) – Whether the author of this reply should be hidden.
- **internal** (*bool*) – Whether the reply is internal.

**Returns self** – The updated model.

**Return type** *ModmailConversation*

**async unarchive()**

Unarchive the modmail conversation.

**Returns self** – The updated model.

**Return type** *ModmailConversation*

**async unmute()**

Unmute the modmail conversation.

**Returns self** – The updated model.

**Return type** *ModmailConversation*

## Subreddit Wiki

This section details the usage of models related to subreddit wiki.

### Contents

- *Subreddit Wiki*
  - *SubredditWiki*
  - *SubredditWikipage*
  - *WikipageRevision*

## SubredditWiki

**class** `apraw.models.SubredditWiki`(*reddit: Reddit, subreddit: Subreddit*)

A helper class to aid in retrieving subreddit wiki pages, revisions as well as creating items.

**async** `__call__`() → List[str]

Retrieve a list of the available wikipages.

**Returns** `pages` – A list of all the wikipages in the subreddit by name.

**Return type** List[str]

**async** `create`(*page: str, content\_md: str = "", reason: str = ""*) →  
*apraw.models.subreddit.wiki.SubredditWikipedia*

Create a new wikipage on the subreddit.

**Parameters**

- **page** (*str*) – The wikipage’s name.
- **content\_md** (*str*) – The wikipage’s content as a markdown string.
- **reason** (*str*) – An optional string detailing the reason for the creation of this wikipage.

**Returns** `wikipedia` – The newly created wikipage.

**Return type** *SubredditWikipedia*

**async** `page`(*page: str*) → *apraw.models.subreddit.wiki.SubredditWikipedia*

Retrieve a specific *SubredditWikipedia* by its name.

**Parameters** `page` (*str*) – The wikipage’s name which can be retrieved using the list from `__call__`.

**Returns** `wikipedia` – The requested wikipage if it exists.

**Return type** *SubredditWikipedia*

**revisions**(\*args, \*\*kwargs)

Returns an instance of *ListingGenerator* mapped to recent wikipage revisions.

---

**Note:** This listing can be streamed doing the following:

```
for comment in subreddit.wiki.stream():
    print(comment)
```

**Parameters** `kwargs` (\*\*Dict) – *ListingGenerator* kwargs.

**Returns** `generator` – A *ListingGenerator* mapped to recent wikipage revisions.

**Return type** *ListingGenerator*



## SubredditWikipage

**class** `apraw.models.SubredditWikipage`(*name: str, reddit: Reddit, subreddit: Subreddit, data: Dict = None*)  
The model that represents Subreddit wikipages.

### Typical Attributes

This table describes attributes that typically belong to objects of this class. Attributes are dynamically provided by the `aPRAWBase` class and may vary depending on the status of the response and expected objects.

Attribute	Description
<code>content_html</code>	The content's of the wikipage as an HTML string.
<code>content_md</code>	The content's of the wikipage formatted as a markdown string.
<code>may_revise</code>	bool
<code>name</code>	The wikipage's name.
<code>reason</code>	The reason text for the wikipage's current revision.
<code>revision_by</code>	The author of the wikipage's current revision.
<code>revision_date</code>	The date on which the current revision was made.
<code>revision_id</code>	The ID of the wikipage's current revision.

**async** `add_editor`(*username: str*) → Union[bool, Any]  
Add a Redditor to the editors of this wikipage.

**Parameters** `username` (*str*) – The Redditor's username without the prefix.

**Returns** `res` – True if the request was successful, otherwise the response's raw data.

**Return type** bool or Any

**async** `del_editor`(*username: str*) → Union[bool, Any]  
Remove a Redditor from the editors of this wikipage.

**Parameters** `username` (*str*) – The Redditor's username without the prefix.

**Returns** `res` – True if the request was successful, otherwise the response's raw data.

**Return type** bool or Any

**async** `edit`(*content\_md: str, reason: Optional[str] = ""*) → Union[bool, Any]  
Edit a wikipage's markdown contents.

#### Parameters

- `content_md` (*str*) – The new wikipage's content as a markdown string.
- `reason` (*Optional[str]*) – An optional reason for this edit.

**Returns** `res` – True if the request was successful, otherwise the response's raw data.

**Return type** bool or Any

**async** `hide`(*revision: Union[str, apraw.models.subreddit.wiki.WikipageRevision]*)  
Hide a wikipage revision from the public history.

**Parameters** `revision` (*str* or `WikipageRevision`) – The wikipage revision either as a `WikipageRevision` or its ID string.

**Returns** `res` – True if the request was successful, otherwise the response's raw data.

**Return type** bool or Any

**async** `revert`(*revision: Union[str, apraw.models.subreddit.wiki.WikipageRevision]*) → Union[bool, Any]  
Revert a wikipage to its previous revision.

**Parameters** `revision` (*str* or *WikipageRevision*) – The wikipage revision either as a *WikipageRevision* or its ID string.

**Returns** `res` – True if the request was successful, otherwise the response’s raw data.

**Return type** `bool` or `Any`

**revisions**(\*args, \*\*kwargs)

Returns an instance of *ListingGenerator* mapped to fetch specific wikipage revisions.

---

**Note:** This listing can be streamed doing the following:

```
for comment in subreddit.wiki.page("test").stream():
    print(comment)
```

---

**Parameters** `kwargs` (\*\*Dict) – *ListingGenerator* kwargs.

**Returns** `generator` – A *ListingGenerator* mapped to fetch specific wikipage revisions.

**Return type** *ListingGenerator*

## WikipageRevision

**class** `apraw.models.WikipageRevision`(*reddit: Reddit, data: Dict = None*)

The model that represents wikipage revisions.

**author:** `Redditor` The Redditor that made this revision.

### Typical Attributes

This table describes attributes that typically belong to objects of this class. Attributes are dynamically provided by the *aPRAWBase* class and may vary depending on the status of the response and expected objects.

Attribute	Description
<code>timestamp</code>	A timestamp of when the revision was made.
<code>page</code>	The name of the page the revision addresses.
<code>revision_hidden</code>	Whether the revision has been hidden by the editors.
<code>reason</code>	The reason string for this revision if available.
<code>id</code>	The ID of this revision.

## Removal Reasons

This section details the usage of models that aid in fetching and managing subreddit removal reasons.

### Contents

- *Removal Reasons*
  - *SubredditRemovalReasons*
  - *SubredditRemovalReason*

## SubredditRemovalReasons

**class** `apraw.models.SubredditRemovalReasons`(*reddit: Reddit, subreddit: Subreddit*)

A helper to aid in retrieving and adding removal reasons to a subreddit.

**async add**(*title: str, message: str*) → `apraw.models.subreddit.removal_reasons.SubredditRemovalReason`

Add a removal reason to the subreddit's list.

### Parameters

- **title** (*str*) – The title under which this removal reason is saved.
- **message** (*str*) – The message that is sent to author's when the removal reason is used.

**Returns** **reason** – The newly created, and fetched, removal reason.

**Return type** `SubredditRemovalReason`

**async get**(*item: Union[int, str]*) → `apraw.models.subreddit.removal_reasons.SubredditRemovalReason`

Retrieve a removal reason based on its ID or index.

**Parameters** **item** (*int or str*) – The item's ID or index.

**Returns** **reason** – The removal reason that was found in the list.

**Return type** `SubredditRemovalReason`

### Raises

- **StopIteration** – If no removal reason by the given ID was found.
- **IndexError** – If the index given doesn't exist in the list of removal reasons.

## SubredditRemovalReason

**class** `apraw.models.SubredditRemovalReason`(*reddit: Reddit, subreddit: Subreddit, data: Dict*)

The model representing subreddits.

**url: str** The API URL to this specific removal reason.

### Typical Attributes

This table describes attributes that typically belong to objects of this class. Attributes are dynamically provided by the `aPRAWBase` class and may vary depending on the status of the response and expected objects.

Attribute	Description
<code>message</code>	The message for this removal reason that is sent to authors.
<code>id</code>	The ID of this removal reason.
<code>title</code>	The title of this removal reason in the subreddit.

**async delete**() → Any

Delete this removal reason from the subreddit.

**Returns** **response** – The API endpoint raw response.

**Return type** Any

**async fetch**()

Fetch the data for this removal reason. The `aPRAWBase` class will automatically update and/or add members returned by the API.

**async update**(*title: Optional[str] = None, message: Optional[str] = None*) → Any  
 Update the title and/or message of this removal reason.

**Parameters**

- **title** (*Optional[str]*) – The updated title for this removal reason. If none is specified the original title will be reused.
- **message** (*Optional[str]*) – The updated message for this removal reason. If none is specified the original message will be reused.

**Returns response** – The API endpoint raw response.

**Return type** Any

## 2.4.2 Submission

This section contains the documentation and API of the submission model and its moderation helper class.

### Submission

A Submission can either be instantiated by using its ID, or by going through subreddits:

```
submission = await reddit.submission("h7mna9")

sub = await reddit.redditor("aprawbot")
async for submission in sub.new():
    print(submission)
```

**class** `apraw.models.Submission`(*reddit: Reddit, data: Dict, subreddit: Subreddit = None, author: apraw.models.reddit.redditor.Redditor = None*)

The model representing submissions.

**reddit: Reddit** The *Reddit* instance with which requests are made.

**data: Dict** The data obtained from the /about endpoint.

**mod: SubmissionModeration** The *SubmissionModeration* instance to aid in moderating the submission.

**kind: str** The item’s kind / type.

**Typical Attributes**

This table describes attributes that typically belong to objects of this class. Attributes are dynamically provided by the *aPRAWBase* class and may vary depending on the status of the response and expected objects.

Attribute	Description
<code>all_awardings</code>	A list of the awardings on the submission.
<code>allow_live_comments</code>	Whether live comments have been enabled on this submission.
<code>approved_at_utc</code>	The UTC timestamp of when the submission was approved.
<code>approved_by</code>	The user that approved the submission.
<code>approved</code>	Whether the submission has been approved by the moderators of the subreddit.
<code>archived</code>	Whether the submission has been archived by Reddit.
<code>author_flair_background_color</code>	The submission author’s flair background color.
<code>author_flair_css_class</code>	The submission’s author flair CSS class.
<code>author_flair_richtext</code>	The submission’s author flair text.

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Table 3 – continued from previous page

Attribute	Description
author_flair_template_id	The submission author's flair template ID if applicable.
author_flair_text_color	The submission's author flair text color if applicable.
author_flair_text	The author's flair text if applicable.
author_flair_type	The type of flair used by the submission's author.
author_fullname	The author of the submission prepended with t2_.
author_patreon_flair	The submission's author Patreon flair.
author	The name of the submission's Redditor.
banned_at_utc	The UTC timestamp at which the author was banned.
banned_by	null
can_gild	Whether the logged-in user can gild the submission.
can_mod_post	Whether the logged-in user can modify the post.
category	The submission's category.
clicked	Whether the submission has been clicked by the logged-in user previously.
content_categories	The content categories assigned to the submission.
contest_mode	Whether the moderators of the subreddit have enabled contest mode on the submission.
created_utc	The parsed UTC datetime on which the submission was made.
created	The timestamp of when the submission was posted.
discussion_type	null
distinguished	The type of distinguishment on the submission.
domain	The domain of the submission.
downs	The number of downvotes on the submission.
edited	Whether the submission has been edited by its author.
gilded	The number of awards this submission has received.
gildings	The gild awards the submission has received.
hidden	Whether the submission has been hidden by the logged-in user.
hide_score	Whether clients should hide the score from users.
id	The submission's ID.
ignore_reports	Whether reports should be ignored on this submission.``
is_crosspostable	Whether the submission can be crossposted to other subreddits.
is_meta	Whether the submission is a meta post.
is_original_content	Whether the submission has been marked as original content.
is_reddit_media_domain	Whether the media has been uploaded to Reddit.
is_robot_indexable	Whether the submission can be indexed by robots.
is_self	Whether the submission is a self post.
is_video	Whether the submission is a video post.
likes	bool
link_flair_background_color	The submission's flair background color.
link_flair_css_class	The CSS class applied on the submission's flair if applicable.
link_flair_richtext	The submission's flair text if applicable.
link_flair_template_id	The submission's flair template ID if applicable.
link_flair_text_color	The submission's flair text color if applicable.
link_flair_text	The submission's flair text.
link_flair_type	The type of flair applied to the submission.
locked	Whether the submission has been locked by the subreddit moderators.
media_embed	Dict
media_only	Whether the submission only consists of media.
media	null
mod_note	Moderator notes added to the submission.
mod_reason_by	The moderator who added the removal reason if applicable.

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Table 3 – continued from previous page

Attribute	Description
mod_reason_title	The reason the submission has been removed by moderators if applicable.
mod_reports	A list of moderator reports on the submission.
name	The ID of the submission prepended with t3_.
no_follow	bool
num_comments	The number of comments on the submission.
num_crossposts	The number of times the submission has been crossposted.
num_reports	The number of reports on the submission.
over_18	Whether the submission has been marked as NSFW.
parent_whitelist_status	null
permalink	The submission's permalink.
pinned	Whether the submission has been pinned on the subreddit.
pwls	null
quarantine	Whether the submission was posted in a quarantined subreddit.
removal_reason	The submission's removal reason if applicable.
removed	Whether the submission has been removed by the subreddit moderators.
report_reasons	A list of report reasons on the submission.
saved	Whether the submission has been saved by the logged-in user.
score	The overall submission vote score.
secure_media_embed	Dict
secure_media	null
selftext_html	The submission text as HTML.
selftext	The submission's selftext.
send_replies	Whether the author of the submission will receive reply notifications.
spam	Whether the submission has been marked as spam.
spoiler	Whether the submission contains a spoiler.
stickied	Whether the submission is stickied on the subreddit.
subreddit_id	The subreddit's ID prepended with t5_.
subreddit_name_prefixed	The name of the subreddit the submission was posted on, prefixed with "r/".
subreddit_subscribers	The number of subscribers to the submission's subreddit.
subreddit_type	The type of the subreddit the submission was posted on (public, restricted, private).
subreddit	The name of the subreddit on which the submission was posted.
suggested_sort	The suggested sort method for comments.
thumbnail_height	The height of the submission's thumbnail if applicable.
thumbnail_width	The width of the submission's thumbnail if applicable.
thumbnail	A URL to the submission's thumbnail if applicable.
title	The submission's title.
total_awards_received	The number of awards on the submission.
ups	The number of upvotes on the submission.
url	The full URL of the submission.
user_reports	A list of the user reports on the submission.
view_count	The number of views on the submission.
visited	Whether the logged-in user has visited the submission previously.
whitelist_status	null
wls	null

---

**Note:** Many of these attributes are only available if the logged-in user has moderator access to the item.

---

**async author()** → *apraw.models.reddit.redditor.Redditor*  
 Retrieve the item's author as a *Redditor*.

**Returns** **author** – The item’s author.

**Return type** *Redditor*

**async** **clear\_vote()**

Clear user up- and downvotes on the item.

**Returns** **resp** – The API response JSON.

**Return type** Dict

**async** **comment**(*text: str*) → Union[*Comment*, *Message*]

Reply to the item.

**Returns** **reply** – The newly created reply, either a *Comment* or *Message*.

**Return type** *Comment* or *Message*

**async** **delete()**

Delete the item.

**Returns** **resp** – The API response JSON.

**Return type** Dict

**async** **downvote()**

Downvote the item.

**Returns** **resp** – The API response JSON.

**Return type** Dict

**async** **fetch()**

Fetch this item’s information from a suitable API endpoint.

**Returns** **self** – The updated model.

**Return type** *Submission*

**property** **fullname**

Get the ID prepended with its kind.

**Returns** **fullname** – The item’s ID prepended with its kind such as *t1\_*.

**Return type** str

**async** **hide()**

Hide the item.

**Returns** **resp** – The API response JSON.

**Return type** Dict

**async** **mark\_nsfw()**

Mark the item as NSFW.

**Returns** **resp** – The API response JSON.

**Return type** Dict

**async** **mark\_spoiler()**

Mark the item as a spoiler.

**Returns** **resp** – The API response JSON.

**Return type** Dict

**async reply**(*text: str*) → Union[*Comment*, *Message*]

Reply to the item.

**Returns reply** – The newly created reply, either a *Comment* or *Message*.

**Return type** *Comment* or *Message*

**async save**(*category: str = ""*)

Save the item in a category.

**Parameters category** (*str*, *optional*) – The category name.

**Returns resp** – The API response JSON.

**Return type** Dict

**async subreddit**() → *Subreddit*

Retrieve the subreddit this item was made in as a *Subreddit*.

**Returns subreddit** – The subreddit this item was made in.

**Return type** *Subreddit*

**async unhide**()

Unhide the item.

**Returns resp** – The API response JSON.

**Return type** Dict

**async unmark\_nsfw**()

Unmark the item as NSFW.

**Returns resp** – The API response JSON.

**Return type** Dict

**async unmark\_spoiler**()

Unmark the item as a spoiler.

**Returns resp** – The API response JSON.

**Return type** Dict

**async unsave**()

Unsave the item.

**Returns resp** – The API response JSON.

**Return type** Dict

**async upvote**()

Upvote the item.

**Returns resp** – The API response JSON.

**Return type** Dict



## Submission Moderation

**class** `apraw.models.SubmissionModeration`(*reddit: Reddit, submission: apraw.models.reddit.submission.Submission*)

A helper class to moderate submissions.

**async approve**()

Approve the Reddit item.

**Returns resp** – The API response JSON.

**Return type** Dict

**async distinguish**(*how: apraw.models.enums.distinguishment\_option.DistinguishmentOption = 'yes', sticky: bool = False*)

Distinguish the Reddit item.

**Parameters**

- **how** (*DistinguishmentOption*) – The type of distinguishment to be added to the item.
- **sticky** (*bool, optional*) – Whether the item should be stickied.

**Returns resp** – The API response JSON.

**Return type** Dict

**async flair**(*text: str, css\_class: str = ""*)

Flair a submission.

**Parameters**

- **text** (*str*) – The flair text string no longer than 64 characters.
- **css\_class** (*str*) – A valid subreddit image name.

**Returns resp** – The API response JSON.

**Return type** Dict

**property fullname: str**

Retrieve the fullname of the item this helper performs requests for.

**Returns fullname** – The ID prepended with the kind of the item this helper belongs to.

**Return type** str

**async ignore\_reports**()

Ignore reports on the Reddit item.

**Returns resp** – The API response JSON.

**Return type** Dict

**async lock**()

Lock the item from further replies.

**Returns resp** – The API response JSON.

**Return type** Dict

**async mark\_nsfw**()

Mark the item as NSFW.

**Returns resp** – The API response JSON.

**Return type** Dict

**async mark\_spoiler()**

Mark the item as a spoiler.

**Returns resp** – The API response JSON.

**Return type** Dict

**async remove**(*spam: bool = False, mod\_note: Optional[str] = "", reason: Optional[Union[str, [apraw.models.subreddit.removal\\_reasons.SubredditRemovalReason](#)]] = None*)

Remove the Reddit item.

**Parameters**

- **spam** (*bool*) – When True, use the removal to help train the Subreddit’s spam filter (default: False).
- **mod\_note** (*Optional[str]*) – A message for the other moderators.
- **reason** (*str or [SubredditRemovalReason](#)*) – The removal reason ID or a subreddit removal reason to add.

**Returns resp** – The API response JSON or a tuple of dictionaries if a removal reason / mod note was added as well.

**Return type** Dict or Tuple

**async sticky**(*position: int = 1, to\_profile: bool = False*)

Sticky a submission in its subreddit.

**Parameters**

- **position** (*int*) – The “slot” the submission will be stickied to.
- **to\_profile** (*bool*) – Whether the submission will be stickied to the user profile.

**Returns resp** – The API response JSON.

**Return type** Dict

**async undistinguish()**

Undistinguish the Reddit item.

**Returns resp** – The API response JSON.

**Return type** Dict

**async unignore\_reports()**

Unignore previously ignored reports on the Reddit item.

**Returns resp** – The API response JSON.

**Return type** Dict

**async unlock()**

Unlock the item from further replies.

**Returns resp** – The API response JSON.

**Return type** Dict

**async unmark\_nsfw()**

Unmark the item as NSFW.

**Returns resp** – The API response JSON.

**Return type** Dict

**async unmark\_spoiler()**

Unmark the item as a spoiler.

**Returns resp** – The API response JSON.

**Return type** Dict

**async unsticky(to\_profile: bool = False)**

Unsticky a submission from its subreddit.

**Parameters to\_profile (bool)** – Whether the submission will be unsticked from the user profile.

**Returns resp** – The API response JSON.

**Return type** Dict

## 2.4.3 Comment

This section contains the documentation and API of the comment model and its moderation helper class.

### Comment

Besides retrieving comments similarly to submissions using their ID or fetching them through a subreddit's listings, comments can be obtained from the submission they were made in like so:

```
submission = await reddit.submission("h7mna9")

async for comment in submission.comments():
    print(comment)
```

**class** `apraw.models.Comment`(*reddit: Reddit, data: Dict, submission: Submission = None, author: apraw.models.reddit.redditor.Redditor = None, subreddit: Subreddit = None, replies: Union[CommentForest, List] = None*)

The model representing comments.

**mod: CommentModeration** The `CommentModeration` instance to aid in moderating the comment.

**kind: str** The item's kind / type.

**url: str** The URL pointing to this comment.

#### Typical Attributes

This table describes attributes that typically belong to objects of this class. Attributes are dynamically provided by the `aPRAWBase` class and may vary depending on the status of the response and expected objects.

Attribute	Description
<code>all_awardings</code>	A list of awardings added to the comment.
<code>approved_at_utc</code>	The UTC timestamp at which the comment was approved by the moderators.
<code>approved_by</code>	The moderator who approved this comment if applicable.
<code>approved</code>	Whether the comment has been approved by the moderators.
<code>archived</code>	Whether the comment has been archived.
<code>author_flair_background_color</code>	The comment author's flair background color if applicable.
<code>author_flair_css_class</code>	The comment author's flair CSS class if applicable.
<code>author_flair_richtext</code>	The comment author's flair text if applicable.

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Table 4 – continued from previous page

Attribute	Description
author_flair_template_id	The comment author's flair template ID if applicable.
author_flair_text_color	The comment author's flair text color if applicable.
author_flair_text	The comment author's flair text if applicable.
author_flair_type	The comment author's flair type if applicable.
author_fullname	The comment author's ID prepended with t2_.
author_patreon_flair	The comment author's Patreon flair if applicable.
author	The comment author's username.
banned_at_utc	None
banned_by	None
body_html	The HTML version of the comment's body.
body	The comment's markdown body.
can_gild	Whether the logged-in user can gild the comment.
can_mod_post	bool
collapsed_reason	None
collapsed	Whether the comment should be collapsed by clients.
controversiality	A score on the comment's controversiality based on its up- and downvotes.
created_utc	The parsed UTC datetime on which the comment was made.
created	A timestamp on which the comment was created.
distinguished	The type of distinguishment the comment has received.
downs	The number of downvotes the comment has received.
edited	Whether the comment has been edited from its original state.
gilded	The number of awards this comment has received.
gildings	A dictionary of gilds the comment has received.
id	The comment's ID.
ignore_reports	Whether reports should be ignored on this comment.
is_submitter	Whether the logged-in user is the submitter of this comment.
likes	The overall upvote score on this comment.
link_author	The username of the comment submission's author.
link_id	The ID of the submission this comment was made in.
link_permalink / link_url	A URL to the comment's submission.
link_title	The comment's submission title.
locked	Whether the comment has been locked by the moderators.
mod_note	Notes added to the comment by moderators if applicable.
mod_reason_by	The moderator who added a removal reason if applicable.
mod_reason_title	The mod reason's title if applicable.
mod_reports	A list of reports made on this comment filed by moderators.
name	The comment's ID prepended with t1_.
no_follow	bool
num_comments	The number of replies made in this submission.
num_reports	The number of reports on this comment.
over_18	Whether the comment has been marked NSFW.
parent_id	The comment's parent ID, either link_id or the ID of another comment.
permalink	The comment's permalink.
quarantine	bool
removal_reason	A removal reason set by moderators if applicable.
removed	Whether the comment has been removed by the moderators of the subreddit.
replies	A list of replies made under this comment, usually empty at first.
report_reasons	Report reasons added to the comment.
saved	Whether the logged-in user has saved this comment.

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Table 4 – continued from previous page

Attribute	Description
score_hidden	Whether clients should hide the comment's score.
score	The overall upvote score on this comment.
send_replies	Whether the OP has enabled reply notifications.
spam	Whether the comment has been flagged as spam.
stickied	Whether the comment has been stickied by the moderators.
subreddit_id	The comment subreddit's ID prepended with t5_.
subreddit_name_prefixed	The comment's subreddit name prefixed with "r/".
subreddit_type	The type of the subreddit the submission was posted on (public, restricted, private).
subreddit	The name of the subreddit this comment was made in.
total_awards_received	The number of awards this comment has received.
ups	The number of upvotes this comment has received.
user_reports	A list of user reports filed for this comment.

---

**Note:** Many of these attributes are only available if the logged-in user has moderator access to the item.

---

**async author()** → *apraw.models.reddit.redditor.Redditor*

Retrieve the item's author as a *Redditor*.

**Returns author** – The item's author.

**Return type** *Redditor*

**async clear\_vote()**

Clear user up- and downvotes on the item.

**Returns resp** – The API response JSON.

**Return type** Dict

**async comment(text: str)** → Union[*Comment*, *Message*]

Reply to the item.

**Returns reply** – The newly created reply, either a *Comment* or *Message*.

**Return type** *Comment* or *Message*

**async delete()**

Delete the item.

**Returns resp** – The API response JSON.

**Return type** Dict

**async downvote()**

Downvote the item.

**Returns resp** – The API response JSON.

**Return type** Dict

**async fetch()**

Fetch this item's information from a suitable API endpoint.

**Returns update** – Whether ReactivePy attributes have been changed.

**Return type** bool

**property fullname**

Get the ID prepended with its kind.

**Returns fullname** – The item’s ID prepended with its kind such as *tI\_*.

**Return type** `str`

**async hide()**

Hide the item.

**Returns resp** – The API response JSON.

**Return type** `Dict`

**async link()** → *Submission*

Retrieve the submission this item belongs to as a *Submission*.

**Returns submission** – The item’s parent submission.

**Return type** *Submission*

**async monitor(max\_wait=16)**

Continuously fetch this comment’s data to react to changes in the data.

This can be used in combination with the callbacks offered by ReactivePy to be notified on changes in specific fields on this comment. For more information on ReactivePy view the [GitHub repo](#).

Callbacks can be assigned as follows:

```
async def on_change(*args):
    for arg in args:
        print(f"{arg.name} changed to {arg.value}.")
comment.on_change(on_change)
```

---

**Note:** Callbacks will work regardless of them being asynchronous or synchronous, as aPRAW’s models use the `_async_bulk_update()` method offered by ReactivePy’s interface.

---

**Parameters max\_wait (int)** – The maximum amount of time to wait between requests if no updates were previously recognized.

**async reply(text: str)** → Union[*Comment*, *Message*]

Reply to the item.

**Returns reply** – The newly created reply, either a *Comment* or *Message*.

**Return type** *Comment* or *Message*

**async save(category: str = "")**

Save the item in a category.

**Parameters category (str, optional)** – The category name.

**Returns resp** – The API response JSON.

**Return type** `Dict`

**async submission()** → *Submission*

Retrieve the submission this item belongs to as a *Submission*.

**Returns submission** – The item’s parent submission.

**Return type** *Submission*

**async subreddit()** → *Subreddit*

Retrieve the subreddit this item was made in as a *Subreddi t*.

**Returns** `subreddit` – The subreddit this item was made in.

**Return type** `Subreddit`

**async unhide()**

Unhide the item.

**Returns** `resp` – The API response JSON.

**Return type** `Dict`

**async unsave()**

Unsave the item.

**Returns** `resp` – The API response JSON.

**Return type** `Dict`

**async upvote()**

Upvote the item.

**Returns** `resp` – The API response JSON.

**Return type** `Dict`

## Comment Moderation

**class** `apraw.models.CommentModeration`(*reddit: Reddit, comment: apraw.models.reddit.comment.Comment*)

A helper class to moderate comments.

**async approve()**

Approve the Reddit item.

**Returns** `resp` – The API response JSON.

**Return type** `Dict`

**async distinguish**(*how: apraw.models.enums.distinguishment\_option.DistinguishmentOption = 'yes', sticky: bool = False*)

Distinguish the Reddit item.

**Parameters**

- **how** (`DistinguishmentOption`) – The type of distinguishment to be added to the item.
- **sticky** (`bool`, *optional*) – Whether the item should be stickied.

**Returns** `resp` – The API response JSON.

**Return type** `Dict`

**property fullname: str**

Retrieve the fullname of the item this helper performs requests for.

**Returns** `fullname` – The ID prepended with the kind of the item this helper belongs to.

**Return type** `str`

**async ignore\_reports()**

Ignore reports on the Reddit item.

**Returns** `resp` – The API response JSON.

**Return type** `Dict`

**async lock()**

Lock the item from further replies.

**Returns resp** – The API response JSON.

**Return type** Dict

**async remove**(*spam: bool = False, mod\_note: Optional[str] = "", reason: Optional[Union[str, [apraw.models.subreddit.removal\\_reasons.SubredditRemovalReason](#)]] = None*)

Remove the Reddit item.

**Parameters**

- **spam** (*bool*) – When True, use the removal to help train the Subreddit’s spam filter (default: False).
- **mod\_note** (*Optional[str]*) – A message for the other moderators.
- **reason** (*str or [SubredditRemovalReason](#)*) – The removal reason ID or a subreddit removal reason to add.

**Returns resp** – The API response JSON or a tuple of dictionaries if a removal reason / mod note was added as well.

**Return type** Dict or Tuple

**async show\_comment()**

Mark a comment that it should not be collapsed because of crowd control.

The comment could still be collapsed for other reasons.

**Returns resp** – The API response JSON.

**Return type** Dict

**async undistinguish()**

Undistinguish the Reddit item.

**Returns resp** – The API response JSON.

**Return type** Dict

**async unignore\_reports()**

Unignore previously ignored reports on the Reddit item.

**Returns resp** – The API response JSON.

**Return type** Dict

**async unlock()**

Unlock the item from further replies.

**Returns resp** – The API response JSON.

**Return type** Dict



## 2.4.4 Message

This section describes the usage and members of the Message model.

Messages are the private messages sent and received via the old Reddit private messaging system and are conventionally retrieved through the inbox:

```
async for message in reddit.user.inbox.unread():
    print(message)
```

**class** `apraw.models.Message`(*reddit: Reddit, data: Dict[str, Any]*)

The model representing comments.

### Typical Attributes

This table describes attributes that typically belong to objects of this class. Attributes are dynamically provided by the `aPRAWBase` class and may vary depending on the status of the response and expected objects.

Attribute	Description
<code>first_message</code>	The first message sent in the message thread if the current message wasn't the first.
<code>first_message_name</code>	The fullname of the first message in the message thread if applicable.
<code>subreddit</code>	The subreddit this conversation is being held in if applicable.
<code>likes</code>	None
<code>replies</code>	A list of all the message replies if applicable, otherwise an empty string.
<code>id</code>	The message ID.
<code>subject</code>	The subject of this message's thread.
<code>associated_awarding_id</code>	The ID of the associated awarding if the message was sent in the context of an award.
<code>score</code>	0
<code>author</code>	The username of the message's author.
<code>num_comments</code>	The number of comments in this message's thread.
<code>parent_id</code>	None
<code>subreddit_name_prefixed</code>	The prefixed name of the subreddit this conversation is being held in if applicable.
<code>new</code>	bool
<code>type</code>	str
<code>body</code>	The markdown string contents of this message.
<code>dest</code>	The recipient of the message.
<code>body_html</code>	The HTML string contents of this message.
<code>was_comment</code>	Whether this message was a comment.
<code>name</code>	The fullname of this message, representing the ID prefixed with its kind. (e.g. <code>t4_</code> )
<code>created</code>	The timestamp on which this message was created.
<code>created_utc</code>	The parsed UTC datetime on which this message was created.
<code>context</code>	str
<code>distinguished</code>	The type of distinguishment on this message object.

**async** `author()` → `apraw.models.reddit.redditor.Redditor`

Retrieve the item's author as a `Redditor`.

**Returns** `author` – The item's author.

**Return type** `Redditor`

**async comment**(*text: str*) → Union[*Comment*, *Message*]

Reply to the item.

**Returns reply** – The newly created reply, either a *Comment* or *Message*.

**Return type** *Comment* or *Message*

**async fetch**()

Fetch this item's information from a suitable API endpoint.

**Returns self** – The updated model.

**Return type** *aPRAWBase*

**property fullname**

Get the ID prepended with its kind.

**Returns fullname** – The item's ID prepended with its kind such as *t1\_*.

**Return type** *str*

**async reply**(*text: str*) → Union[*Comment*, *Message*]

Reply to the item.

**Returns reply** – The newly created reply, either a *Comment* or *Message*.

**Return type** *Comment* or *Message*

**async subreddit**() → *Subreddit*

Retrieve the subreddit this item was made in as a *Subreddit*.

**Returns subreddit** – The subreddit this item was made in.

**Return type** *Subreddit*

## 2.4.5 Redditor

This section describes the usage and members of the Redditor model.

A Redditor can be instantiated as follows:

```
sub = await reddit.redditor("aprawbot")
```

**class** `apraw.models.Redditor`(*reddit: Reddit*, *data: Dict*)

The model representing Redditors.

**reddit: Reddit** The *Reddit* instance with which requests are made.

**data: Dict** The data obtained from the /about endpoint.

**kind: str** The item's kind / type.

**subreddit: Sureddit** An instance of *Subreddit* for the Redditor's profile subreddit.

### Typical Attributes

This table describes attributes that typically belong to objects of this class. Attributes are dynamically provided by the *aPRAWBase* class and may vary depending on the status of the response and expected objects.

Attribute	Description
comment_karma	The amount of comment karma the Redditor has obtained.
created_utc	The date on which the Redditor was created in UTC <code>datetime</code> .
created	The timestamp of when the Redditor was created.
has_verified_email	Whether the Redditor has a verified email address.
icon_img	A URL to the Redditor's icon image if applicable.
id	The Redditor's ID (without kind).
is_employee	Whether the Redditor is a Reddit employee.
is_friend	Whether the Redditor has been added as a friend.
is_gold	Whether the Redditor is a Reddit gold member.
is_mod	Whether the Redditor is a moderator in a subreddit.
is_suspended	Whether the Redditor has been suspended.
link_karma	The amount of link karma the Redditor has obtained.
name	The Redditor's username.
pref_show_snoovatar	Whether to show the Redditor's Snoovatar in place of their icon.
verified	Whether the Redditor is verified.

**Warning:** Suspended Redditors only return `is_suspended` and `name`.

**comments**(\*args, \*\*kwargs)

Returns an instance of *ListingGenerator* mapped to fetch the Redditor's comments.

**Note:** This listing can be streamed doing the following:

```
for comment in redditor.comments.stream():
    print(comment)
```

**Parameters** `kwargs` (\*\*Dict) – *ListingGenerator* kwargs.

**Returns** `generator` – A *ListingGenerator* mapped to fetch the Redditor's comments.

**Return type** *ListingGenerator*

**async fetch**()

Fetch this item's information from a suitable API endpoint.

**Returns** `self` – The updated Redditor.

**Return type** *Redditor*

**async message**(subject, text, from\_sr="") → Dict

Message the Redditor.

**Parameters**

- **subject** (*str*) – The subject of the message.
- **text** (*str*) – The text contents of the message in markdown.
- **from\_sr** (*str*) – The subreddit the message is being sent from if applicable.

**Returns** `resp` – The response data returned from the endpoint.

**Return type** Dict

**moderated\_subreddits**(\*\*kwargs) → *Subreddit*

Yields the subreddits the Redditor moderates.

**Parameters** **kwargs** (\*\*Dict) – kwargs to be used as query parameters.

**Yields** **subreddit** (*Subreddit*) – A subreddit the user moderates.

**submissions**(\*args, \*\*kwargs)

Returns an instance of *ListingGenerator* mapped to fetch the Redditor’s submissions.

**Note:** This listing can be streamed doing the following:

```
for comment in redditor.submissions.stream():
    print(comment)
```

**Parameters** **kwargs** (\*\*Dict) – *ListingGenerator* kwargs.

**Returns** **generator** – A *ListingGenerator* mapped to fetch the Redditor’s submissions.

**Return type** *ListingGenerator*

## 2.4.6 MoreComments

This section describes the usage and members of the *MoreComments* model.

*MoreComments* stores a list of IDs pointing to *Comment* and further *MoreComments*. These can be retrieved using the *comments()* method or by iterating over the instance asynchronously:

```
comments = await more_comments.comments()
# or using asynchronous list comprehension:
comments = [c async for c in more_comments]
```

**class** `apraw.models.MoreComments`(*reddit: Reddit, data: Dict[str, Any], link\_id: str*)

Represents the model for more comments in a thread.

### Typical Attributes

This table describes attributes that typically belong to objects of this class. Attributes are dynamically provided by the *aPRAWBase* class and may vary depending on the status of the response and expected objects.

Attribute	Description
count	The number of comment or more children items in this thread.
name	The fullname that references this more comments model.
id	The ID of this more comments model.
parent_id	The ID of this more comments’ parent submission or comment.
depth	The depth this more comments model goes into.
children	A list of comment and more comment IDs available in this thread.

**async** **comments**() → List[Union[*apraw.models.reddit.comment.Comment*,  
*apraw.models.reddit.more\_comments.MoreComments*]]

Retrieve a list of all the *Comment* and further *MoreComments* in this thread.

**Returns** **comments** – A list of all the *Comment* and further *MoreComments* in this thread.

**Return type** List[Union[*Comment*, *MoreComments*]]

**async fetch()**

Fetch all the comments in this MoreComments thread.

**property fullname**

Get the ID prepended with its kind.

**Returns fullname** – The item’s ID prepended with its kind such as *t1\_*.

**Return type** *str*

**async link()** → *Submission*

Retrieve the submission this item belongs to as a *Submission*.

**Returns submission** – The item’s parent submission.

**Return type** *Submission*

**async parent()** → Union[*apraw.models.reddit.submission.Submission*,  
*apraw.models.reddit.comment.Comment*]

Retrieve the parent submission or comment of this MoreComments object.

**Returns parent** – The parent submission or comment of this MoreComments object.

**Return type** *Submission* or *Comment*

**async submission()** → *Submission*

Retrieve the submission this item belongs to as a *Submission*.

**Returns submission** – The item’s parent submission.

**Return type** *Submission*

## 2.4.7 Listing

Listings represent arrays returned by the Reddit API. It knows the *Reddit* instance it’s working for, and contains references to *Subreddit* and *Submission* if available which are injected to the dynamically parsed aPRAW models.

Raw listings can be fetched with the *get\_listing()* method where the endpoint needs to be supplied, and returns a listing.

```
class apraw.models.Listing(reddit: Reddit, data: Dict, kind_filter: List[str] = None, subreddit: Subreddit = None, link_id: str = "")
```

A model representing Reddit listings.

```
__getitem__(index: int) → apraw.models.helpers.apraw_base.aPRAWBase
```

Return the item at position index in the list.

**Parameters index** (*int*) – The item’s index.

**Returns item** – The searched item.

**Return type** *aPRAWBase*

```
__iter__() → Iterator[apraw.models.helpers.apraw_base.aPRAWBase]
```

Permit Listing to operate as an iterator.

**Returns self** – The iterator.

**Return type** *Listing*

```
__len__() → int
```

Return the number of items in the Listing.

**Returns len** – The number of items in the listing.

**Return type** int

`__next__()` → *apraw.models.helpers.apraw\_base.aPRAWBase*  
Permit Listing to operate as a generator.

**Returns item** – The next item in the listing.

**Return type** *aPRAWBase*

**property last:** `apraw.models.helpers.apraw_base.aPRAWBase`

Return the last item in the listing.

**Returns item** – The last item in the listing.

**Return type** *aPRAWBase*

## 2.5 Helpers

This section contains the documentation of implemented base and helper classes used by aPRAW models.

### 2.5.1 ListingGenerator

`ListingGenerator` is a utility class that fetches items from the listing endpoint, parses the response, and yields items as they are found. If the item kind cannot be identified, *aPRAWBase* is returned which automatically assigns itself all the data attributes found.

```
class apraw.models.ListingGenerator(reddit: Reddit, endpoint: str, limit: int = 100, subreddit: Subreddit =  
None, kind_filter: List[str] = None, listing_class:  
Type[apraw.models.reddit.listing.Listing] =  
apraw.models.reddit.listing.Listing, **kwargs)
```

The model to request listings from Reddit.

**reddit: *Reddit*** The *Reddit* instance with which requests are made.

**endpoint: *str*** The endpoint to make requests on.

**max\_wait: *int*** The maximum amount of seconds to wait before re-requesting in streams.

**kind\_filter:** Kinds to return if given, otherwise all are returned.

**subreddit: *Subreddit*** The subreddit to inject as a dependency into items if given.

---

**Note:** `ListingGenerator` will automatically make requests until none more are found or the limit has been reached.

---

### 2.5.2 aPRAWBase

*aPRAWBase* is the base class used by most Reddit models to self-assign data retrieved from respective endpoints. It is used by classes such as *Submission* and *Comment*.

```
class apraw.models.aPRAWBase(reddit: Reddit, data: Dict[str, Any] = None, kind: str = "")  
The base class for Reddit models.
```

The *aPRAWBase* class stores data retrieved by the endpoints and automatically assigns it as attributes. Specific information about the aforementioned attributes can be found in the respective implementations such as *Comment*.

**kind: *str*** The item's kind / type.

**async fetch()**

Fetch this item's information from a suitable API endpoint.

**Returns self** – The updated model.

**Return type** *aPRAWBase*

**property fullname**

Get the ID prepended with its kind.

**Returns fullname** – The item's ID prepended with its kind such as *tI\_*.

**Return type** str

### 2.5.3 ItemModeration

ItemModeration is a utility class to aid in moderation comments, submissions and modmail. Specific implementations such as *CommentModeration* exist as well, and the base class may be used by certain models.

**class** `apraw.models.ItemModeration`(*reddit: Reddit, item: apraw.models.helpers.apraw\_base.aPRAWBase*)

A helper class to moderate comments, submissions and modmail.

**async approve()**

Approve the Reddit item.

**Returns resp** – The API response JSON.

**Return type** Dict

**async distinguish**(*how: apraw.models.enums.distinguishment\_option.DistinguishmentOption = 'yes', sticky: bool = False*)

Distinguish the Reddit item.

**Parameters**

- **how** (*DistinguishmentOption*) – The type of distinguishment to be added to the item.
- **sticky** (*bool, optional*) – Whether the item should be stickied.

**Returns resp** – The API response JSON.

**Return type** Dict

**property fullname: str**

Retrieve the fullname of the item this helper performs requests for.

**Returns fullname** – The ID prepended with the kind of the item this helper belongs to.

**Return type** str

**async ignore\_reports()**

Ignore reports on the Reddit item.

**Returns resp** – The API response JSON.

**Return type** Dict

**async remove**(*spam: bool = False, mod\_note: Optional[str] = "", reason: Optional[Union[str, apraw.models.subreddit.removal\_reasons.SubredditRemovalReason]] = None*)

Remove the Reddit item.

**Parameters**

- **spam** (*bool*) – When True, use the removal to help train the Subreddit's spam filter (default: False).

- **mod\_note** (*Optional[str]*) – A message for the other moderators.
- **reason** (*str* or `SubredditRemovalReason`) – The removal reason ID or a subreddit removal reason to add.

**Returns resp** – The API response JSON or a tuple of dictionaries if a removal reason / mod note was added as well.

**Return type** Dict or Tuple

**async undistinguish()**

Undistinguish the Reddit item.

**Returns resp** – The API response JSON.

**Return type** Dict

**async unignore\_reports()**

Unignore previously ignored reports on the Reddit item.

**Returns resp** – The API response JSON.

**Return type** Dict

## 2.5.4 streamable

streamable is a callable class that can be used as a decorator on functions returning an asynchronous iterator. It is applied on functions such as `new()` and `submissions()`.

Streamable functions can be called by adding `.stream()`, for example `reddit.subreddits.new.stream()`.

```
class apraw.models.streamable(func: Optional[Union[Callable[[Any, int, Any],
Union[Awaitable[Union[AsyncIterator[apraw.models.helpers.apraw_base.aPRAWBase],
Iterator[apraw.models.helpers.apraw_base.aPRAWBase]],
AsyncIterator[apraw.models.helpers.apraw_base.aPRAWBase],
Iterator[apraw.models.helpers.apraw_base.aPRAWBase]],
AsyncGenerator[apraw.models.helpers.apraw_base.aPRAWBase, None],
Generator[apraw.models.helpers.apraw_base.aPRAWBase, None, None]]] =
None, max_wait: int = 16, attribute_name: str = 'fullname')
```

A decorator to add the `stream()` extension to functions returning (async) iterables or (async) generators.

### Parameters

- **func** (*SYNC\_OR\_ASYNC\_ITERABLE*) – The function returning an (async) iterable or (async) generator to be decorated.
- **max\_wait** (*int*) – The maximum amount of time to wait in between requests that don't return new data.
- **attribute\_name** (*str*) – The attribute to use as a unique identifier for items returned by the decorated function.

**Returns proxy** – A proxy descriptor that returns `Streamable` once it's accessed to enable per-instance use for bound methods and regular functions.

**Return type** ProxyStreamable



```
class apraw.models.Streamable(func: Union[Callable[[Any, int, Any],
Union[Awaitable[Union[AsyncIterator[apraw.models.helpers.apraw_base.aPRAWBase],
Iterator[apraw.models.helpers.apraw_base.aPRAWBase]]],
AsyncIterator[apraw.models.helpers.apraw_base.aPRAWBase],
Iterator[apraw.models.helpers.apraw_base.aPRAWBase]]],
AsyncGenerator[apraw.models.helpers.apraw_base.aPRAWBase, None],
Generator[apraw.models.helpers.apraw_base.aPRAWBase, None, None]],
max_wait: int = 16, attribute_name: str = 'fullname', instance:
Optional[Any] = None)
```

A decorator to make functions returning a generator streamable.

**max\_wait: int** The maximum amount of seconds to wait before repolling the function.

**attribute\_name: str** The attribute name to use as a unique identifier for returned objects.

**\_\_call\_\_**(\*args, \*\*kwargs)

Make streamable callable to return result of decorated function.

**stream**(skip\_existing: bool = False, \*args, \*\*kwargs)

Call the stream method on the decorated function.

#### Parameters

- **skip\_existing** (bool) – Whether items found before the function call should be returned as well.
- **kwargs** (\*\*Dict) – kwargs to be passed on to the function.

**Yields item** (aPRAWBase) – The item retrieved by the function in chronological order.

## 2.5.5 CommentForest

```
class apraw.models.CommentForest(reddit: Reddit, data: Dict, link_id: str, subreddit:
apraw.models.subreddit.subreddit.Subreddit = None)
```

CommentForest is an iterable used by [Comment](#) and [Submission](#) containing the replies and comment threads. The items can be iterated over just like any other listing, which could contain either [Comment](#) or [MoreComments](#).

**\_\_getitem\_\_**(index: int) → *apraw.models.helpers.apraw\_base.aPRAWBase*

Return the item at position index in the list.

**Parameters** **index** (int) – The item's index.

**Returns** **item** – The searched item.

**Return type** *aPRAWBase*

**\_\_iter\_\_**() → *Iterator[apraw.models.helpers.apraw\_base.aPRAWBase]*

Permit Listing to operate as an iterator.

**Returns** **self** – The iterator.

**Return type** *Listing*

**\_\_len\_\_**() → int

Return the number of items in the Listing.

**Returns** **len** – The number of items in the listing.

**Return type** int

**\_\_next\_\_**() → *apraw.models.helpers.apraw\_base.aPRAWBase*

Permit Listing to operate as a generator.

**Returns item** – The next item in the listing.

**Return type** *aPRAWBase*

**async fetch()**

Fetch this item’s information from a suitable API endpoint.

**Returns self** – The updated model.

**Return type** *aPRAWBase*

**property fullname**

Get the ID prepended with its kind.

**Returns fullname** – The item’s ID prepended with its kind such as *tI\_*.

**Return type** str

**property last: apraw.models.helpers.apraw\_base.aPRAWBase**

Return the last item in the listing.

**Returns item** – The last item in the listing.

**Return type** *aPRAWBase*

**async replace\_more()**

Replaces all the *MoreComments* instances with the comments they reference.

This method can be used to retrieve all the comments, and only comments within a forest. This task could take a while for larger threads, after which the comment forest can be iterated over and all the comments with their replies will be made available.

## 2.6 Enums

This section contains the documentation of implemented enums used by methods to ensure sanitized arguments.

### 2.6.1 DistinguishmentOption

*DistinguishmentOption* is the enum used by *distinguish()* to distinguish submissions and comments with specific flags, or remove the distinguishment.

**class** `apraw.models.DistinguishmentOption`(*value*)

An enum for the distinguishment types.

- YES | “yes”
- NO | “no”
- ADMIN | “admin”
- SPECIAL | “special”

- genindex



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