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# **OSCR**

***Release 2.2.0***

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# CONTENTS

<b>1</b>	<b>Overview</b>	<b>1</b>
1.1	Copyright . . . . .	1
<b>2</b>	<b>Credits</b>	<b>3</b>
2.1	u/-B_L_A_N_K- . . . . .	3
2.2	u/DasherPack . . . . .	3
2.3	u/Metaquarx . . . . .	3
2.4	u/MurdoMaclachlan . . . . .	4
2.5	u/Tim3303 . . . . .	4
<b>3</b>	<b>Installation and Use</b>	<b>5</b>
3.1	Requirements . . . . .	5
3.2	Installation . . . . .	5
3.3	Updating . . . . .	6
3.4	Using the Latest Testing Version . . . . .	6
<b>4</b>	<b>Configuration</b>	<b>7</b>
<b>5</b>	<b>Runtime Arguments</b>	<b>11</b>
<b>6</b>	<b>Additional Help and FAQ</b>	<b>13</b>
<b>7</b>	<b>Changelogs</b>	<b>15</b>
7.1	Unreleased . . . . .	15
7.2	2.2.0 . . . . .	15
7.3	2.1.1 . . . . .	16
7.4	2.1.0 . . . . .	16
7.5	2.0.0 . . . . .	16
7.6	1.2.1 . . . . .	18
7.7	1.2.0 . . . . .	18
7.8	1.1.1 . . . . .	19
7.9	1.1.0 . . . . .	20
7.10	1.0.0 . . . . .	21
7.11	0.4.5 . . . . .	22
7.12	0.4.4 . . . . .	22
7.13	0.4.3 . . . . .	22
7.14	0.4.2 . . . . .	23
7.15	0.4.1 . . . . .	23
7.16	0.4.0 . . . . .	23
7.17	0.3.1 . . . . .	23
7.18	0.3.0 . . . . .	24

7.19	0.2.1	.....	24
7.20	0.2.0	.....	24
7.21	0.1.0	.....	25

## OVERVIEW

**Warning:** Use of this bot has been known to cause the **ToR-Stats Discord bot** to freeze, should you have the bad luck to delete a comment while it is being processed. Use at your own risk.

**This is an unofficial program. It is not officially endorsed by the Transcribers of Reddit or the Grafeas Group; they are in no way involved with or liable for this program or any matters relating to it. It is developed unofficially, in my capacity as a volunteer, NOT a moderator.**

The Open Source Caretaker for Reddit, abbreviated OSCAR and nicknamed Oscar, is a program that removes blacklisted comments from a user's Reddit profile once the comment is older than a cutoff time. It is designed with [r/TranscribersOfReddit](#) volunteers in mind, thus the contents of the default blacklist and other certain functionalities that help limit it to this use.

If set to recur, the program will delete new blacklisted comments periodically as they move past the cutoff time.

### 1.1 Copyright

Copyright (C) 2020-present, Murdo B. Maclachlan

OSCAR program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

OSCAR is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should receive a copy of the GNU General Public License when you install OSCAR. If not, see <https://www.gnu.org/licenses/>.

For help, contact me at [murdomaclachlan@duck.com](mailto:murdomaclachlan@duck.com)



**CREDITS**

The following is a list of people who were helpful in creating this project. The list is in alphabetical order.

## **2.1 u/-B\_L\_A\_N\_K-**

[GitHub](#)

[Reddit](#)

- Real-time deletion
- Improved output formatting
- Help with Windows compatibility
- [CDR](#), a similar program to OSCR.

## **2.2 u/DasherPack**

[Reddit](#)

- Being a handsome boi

## **2.3 u/Metaquarx**

[GitHub](#)

[Reddit](#)

- Help with regex support

## 2.4 u/MurdoMaclachlan

Website

- Original creator and primary maintainer

## 2.5 u/Tim3303

GitHub

Reddit

- Help with default regex list



## INSTALLATION AND USE

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**Note:** OSCR was created on Linux and, given the developer has no access to other operating systems, support for Windows is limited and there is no support for MacOS.

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### 3.1 Requirements

In order to install OSCR, you will need a version of Python installed. The original framework was written in 3.7, and current development uses 3.10, but anything 3.5 onwards should work. A minimum of 3.5 is required because that is when type-hinting, which OSCR uses extensively, was added.

OSCR also relies on several python packages; configparser, PRAW, and alive\_progress. Any version of configparser will do, but for PRAW you will need at least 7.1.2, and for alive\_progress you will need at least 1.6.1.

### 3.2 Installation

To install OSCR,

1. Run either `python -m pip install oscr` or `pip install oscr` in your command line. It should automatically install the program as well as any dependencies.
2. Before doing anything else, you should now create an app for your Reddit account. You can do this by going to [the apps page in preferences](#) and creating a new app:
  - Give it a name (“Oscar” or “OSCR” are easy to remember).
  - Choose “script”.
  - Give it a description (which can really be anything you want).
  - Set an about url and redirect uri. The about url doesn’t matter (I just linked the project’s repository). If you have two-factor authentication enabled, set the redirect uri to `http://localhost:8080/users/auth/reddit/callback`. If you do not have 2FA enabled, the redirect uri does not matter.
3. If you are not using two-factor authentication, you can skip this step. If you are, then in your console, run the command `oscr -S`; you will be taken to the settings menu. Select “Edit config” and then “useRefreshTokens”. Set the value to “True”. You can then select “Continue to program” in place of running `oscr` in the next step.
4. Now, in your console, run the command `oscr` and you will be prompted to enter information for the creation of the `praw.ini` file. It will ask for your client id and client secret, which you can see on [the apps page](#).

- Go to the page and scroll down until you find the bot you created. Underneath its name should be “personal use script”, and below that a string of random characters. This is your client id. If you can’t see a field labeled “secret” with another, longer string of random characters after it, then click the edit button and it should appear (along with other fields you filled out when you were creating the app).
- For those using 2FA, OSCR will automatically set your `redirect_uri` to `http://localhost:8080/users/auth/reddit/callback`, which should be what you set it to for the app in step 2.

Once the ini has been created, OSCR will detect whether or not you are using 2FA. If you are, it will open a tab in your browser for you to authorise it to read your submission history and edit your submissions - the necessary scopes to delete comments. Once fully initialised, the contents of your `praw.ini` file should look something like this (the last one will only appear if you have 2FA enabled)::

```
[oscr]
client_id=1I3fAkE7x82LiE
client_secret=4lS0f4Ke1234567894NdN0tR3aL
username=testuser
password=yourpasswordhere
redirect_uri=http://localhost:8080/users/auth/reddit/callback
refresh_token=yourrefreshtokenhere
```

You can check if they are correct by navigating to your config folder, which should be `.config` on Linux and Mac, and `AppData` on Windows.

4. Once you’ve rerun the program, each comment older than the cutoff should be deleted. By default, it will search every 10 minutes, and you can then either leave the program running in the background to delete posts in real time as they reach the cutoff, or you can turn recur off in your config file and manually run it whenever you want to delete comments.

## 3.3 Updating

To update the program to a newer version, run `python -m pip install --upgrade oscr` or `pip install --upgrade oscr` in your command line.

## 3.4 Using the Latest Testing Version

To use the latest testing version, download the [2.x branch files](#), extract the archive you have downloaded, and use `pip install .` after navigating into the directory the files were extracted to.

## CONFIGURATION

Once properly initialised, there should be a `config.json` file in the following directory: `[your home folder]/.oscr`. Its contents will look like this:

```
{
  "config": [
    {
      "blacklist": [
        "claim",
        "claiming",
        "claim -- this was a automated action. please contact me with any_↵
↵questions.",
        "dibs",
        "done",
        "done -- this was a automated action. please contact me with any_↵
↵questions.",
        "unclaim",
        "unclaiming",
        "unclaim -- this was a automated action. please contact me with any_↵
↵questions."
      ],
      "case_sensitive": False,
      "cutoff": 1,
      "cutoff_unit": 3600,
      "debug": False,
      "limit": 100,
      "log_updates": True,
      "os": "[Your OS here]",
      "print_logs": True,
      "recur": True,
      "regex_blacklist": [
        "^(claim|done|dibs|unclaim)(?!(.|\n)*(treasure[\s-]*hunt|save))"
      ],
      "report_totals": True,
      "subreddit_list": [
        "transcribersofreddit"
      ],
      "unit": [
        "minute",
        "minutes",
        60
      ]
    }
  ]
}
```

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```
    ],
    "use_refresh_tokens": False,
    "use_regex": False,
    "user_list": [
        "transcribersofreddit"
    ],
    "wait": 10
  }
]
```

The following is an explanation of what each configuration option does:

Name	Type	Description
blacklist	Array	The list of comments OSCR will delete. It is not case sensitive, so comments of varying capitalisation will all be deleted, however they will only be deleted if the entire content of the comment matches one of the entries in the blacklist.
case_sensitive	Boolean	When using the blacklist, this value determines whether or not the program is case sensitive in its search for comments. Not applicable when using regexes.
cut-off	Integer	The number of units of time old a comment must be before it will be deleted. This is set to 1 by default. I would recommend a minimum cutoff of 15 minutes, in case the u/transcribersofreddit bot has lag and doesn't register your comment in time.
cut-off_unit	Integer	The unit of time used for the cutoff, converted into seconds. Set to 3600 (1 hour) by default.
debug	Boolean	If set to True, OSCR will log obsolete comments, but not actually delete them. Set to False by default.
limit	Integer	The number of comments the program will check through on your profile; i.e. how far back it will go. This is set to 100 by default and can go to a maximum of 1000 (converted to None by the program), due to Reddit's API limits.
log_updates	Boolean	Determines whether or not OSCR will write the log to a file. Set to true by default.
os	String	Your operating system. Can be left blank.
print-Logs	Boolean	Determines whether or not OSCR will print log output to the console. Set to true by default.
re-cur	Boolean	Determines whether the program will run through only once (if False), or continue re-checking your profile in regular intervals until you exit (if True). It is set to True by default. The length of time between program iterations is determined by the wait variable.
regex_blacklist	Array	An alternative blacklist intended for use with regexes. Users not familiar with regexes are advised to ignore this list, as regexes are turned off by default and can cause harm to your profile if used without care.
report_totals	Boolean	Determines whether or not OSCR will print total statistics to the log and console output. Set to True by default.
subreddit_list	Array	The list of subreddits that OSCR cares about. Comments that are in the blacklist or match your set regexes but are not on one of these subreddits will be ignored. If the list is empty, OSCR will check comments on all subreddits.
unit	Array	A list containing all the variations on the unit of time used for the wait variable; singular word, plural word, and integer equivalent converted into seconds. The default unit is minutes.
use_refresh_tokens	Boolean	Determines whether or not OSCR should authenticate using refresh tokens; enable this if you are using two-factor authentication.
use_regex_blacklist	Boolean	Determines whether OSCR should use the blacklist key, only deleting comments that exactly match it, or the regexBlacklist key, which allows for more flexible and powerful control over what the programs delete. It is set to False by default, and users not familiar with regexes should leave it this way, as getting your regex wrong can result in OSCR deleting a lot more than you intend.
user_list	Array	The list of users that OSCR cares about. Comments that are in the blacklist or match your set regexes but are not in reply to one of these users will be ignored. If the list is empty, OSCR will check comments regardless of whom they are in reply to.
wait	Integer	The number of units of time (unit being determined by the unit variable) OSCr will wait before re-checking your comments. It is set to 10 by default.

You can edit the config.json and praw.ini files from within OSCR by running `oscr --settings` or `oscr -S`.



## **RUNTIME ARGUMENTS**

OSCR presents a number of runtime arguments that can be passed in order to give the user more power over the way they run the program and provide certain unique functionalities. The arguments are as follows:

Name	Description	Priority
<code>--clean-hunt, -C</code>	Runs an isolated instance of OSCR that only deletes comments that contain the phrase “treasure hunt” preceded by “claim” or “done”.	7
<code>--credits, -c</code>	Lists everyone who has helped with the creation of the program.	3
<code>--force-regex, -f</code>	Forces OSCR to enable regex for one instance regardless of ‘use_regex’ configuration.	7
<code>--help, -h</code>	Displays the list of runtime arguments in the console.	1
<code>--no-recur, -n</code>	Forces OSCR to run only one cycle regardless of ‘recur’ configuration.	7
<code>--print-logs, -p</code>	Forces OSCR to print logs for one instance regardless of ‘print_logs’ configuration.	7
<code>--reset-config, -R</code>	Resets the config file to defaults.	5
<code>--report-totals, -r</code>	Forces OSCR to report total statistics for one instance regardless of ‘report_totals’ configuration.	7
<code>--settings, -S</code>	Runs the settings menu.	6
<code>--show-config, -s</code>	Displays the contents of the config file.	4
<code>--version, -v</code>	Displays the currently installed version.	2

The priority of each argument refers to how OSCR prioritises which ones to run, if there are any conflicting arguments passed. A lower number means higher priority. For example, if both `--version` and `--credits` are passed, `--version` will process first because it is higher priority. Similarly, if both `--help` and `--print-logs` are passed, `--print-logs` will have no effect, as `--help` is a “closing argument”, meaning it stops the main program from running.

The lowest priority is 7; these are all arguments that affect the main program and will not have an effect if they are accompanied by any closing arguments. They are processed in alphabetical order.

An example command to run OSCR would be as follows:

```
oscr --no-recur --print-logs --report-totals,  
or in short form,
```

`oscr -n -p -r.`



## **ADDITIONAL HELP AND FAQ**

### **Where are the praw.ini, config file and data located?**

On Linux and Mac, these are stored under `/home/your_username/.oscr/`, with the data (log and statistics) under the subfolder `data`. On Windows, they are stored under `C:\Users\your_username\AppData\Roaming\oscr`, with the data under a `data` subfolder.

### **What if I already have a praw.ini on my computer?**

Saving in an `oscr` subfolder prevents OSCAR from overwriting any ini you might already have, and the program is designed to only pull from that file.

If you are updating to 2.0.0 from a version of OSCAR that had the `praw.ini` in just `.config`, run `oscr -F` and it should automatically move the `oscr` section from your `.config praw.ini` to `.config/oscr`, but note that this functionality was removed in version 2.1.0.

### **How can I contact the developer?**

I'm reachable through `murdomaclachlan@duck.com`. You can also [open an issue on GitHub](#) if needed.



## CHANGELOGS

A list of changelogs for OSCAR, with the most recent version first. These are also available [here](#).

### 7.1 Unreleased

#### 7.2 2.2.0

##### Functionality

- Change default regex to allow saving of a claim/done comment. (#161, #162)
- Make `Globals.config` use proper encapsulation. (#151, #175)

##### Cleanup/Optimisation

- Blacken all modules. (#152)
- Divide `globals.py` into two modules; `classes.py`, containing all classes, and `globalspy`, containing all global variables. (#153, #168)

##### Documentation

- Change function/variable naming from camelCase to snake\_case. (#154, #160)
- Change config keys from camelCase to snake\_case. (#168, #169, #176)
- Add docstrings to all modules. (#155, #158)
- Rename `ini.py` to `creds.py`. (#156, #168)

##### Bug Fixes

- Fix crash due to misnamed attribute on `fetch_stats()` failing to find `stats.json`. (#157, #160)
- Fix refresh token not being properly saved to `praw.ini`. (#163, #170)
- Fix possible reference before assignment if `praw.ini` is not found in `edit_credentials()`. (#164, #171)
- Fix crash when editing arrays in `edit_config()` due to old variable naming references. (#165, #172)
- Change default argument for `update_log()` to `None`. (#166, #173)
- Fix unfilled argument when calling `dump_credentials()` in `edit_credentials()`. (#167, #174)

## 7.3 2.1.1

### Bug Fixes

- Fixed a crash when using regexes due to a type mismatch in the `checkRegex()` method.
- Fixed a crash on attempting to handle `AttributeErrors` in comment checking due to not specifying a dataset to call from.
- Fixed a crash on attempting to `dumpStats` due to an attribute naming mismatch.

## 7.4 2.1.0

### Functionality

- Added refresh token support. (#33, #139)
- Added “dibs” to the default blacklist and `regexBlacklist`. (#140, #141)
- Removed `--format-old` runtime argument. (#105, #131)

### Cleanup/Optimisation

- Deferred various functionalities in `main.py` to functions in other modules. (#128, #145)
- Optimised the settings menu to allow for easier addition of new config and ini options. (#127, #139, #142)
- Combined `Log.clear()` and `Log.get()` into `Log.request()`. (#125, #130)
- Other general cleanup, readability and optimisation improvements. (#136, #137, #139, #142, #145)

### Documentation/Logs

- Changed “core” folder to “osrcore” to avoid issues with pip. (#138, #139)

### Bug Fixes

- Fixed a crash on calling `resetConfig()`. (#132, #134)
- Fixed a crash on passing an unknown run-time argument. (#133, #135)

## 7.5 2.0.0

### Functionality

- Added `--clean-hunt` runtime argument to remove comments containing “treasure hunt”. (#48, #87, #115)
- Added `caseSensitive` config key. Determines whether or not OSCR is case sensitive when matching regexes or blacklisted comments. Set to `False` by default. (#57, #69)
- Added `printLogs` config key and `--print-logs` runtime argument to override the config. Determines whether or not OSCR prints the log to the console. (#70, #71)
- Added `reportTotals` config key and `--report-totals` runtime argument to override the config. Determines whether or not OSCR prints total statistics to the console. (#65, #72)
- Added “unclaiming” to the default blacklist. (#69, nice)
- OSCR now ignores punctuation when matching comments to blacklist entries. (#80, #83)

- Added userList config key. If any users are specified in the list, OSCR will only check comments that are in reply to those users. (#85, #87)
- Added ability to leave subredditList (and new userList key) empty, which will disable them, letting OSCR check comments on any subreddit or in reply to any user.
- OSCR now collects global variables at program initialisation (in the oscr script) and not main.py. (#49, #75)
- Contained all code in main.py within an oscr() function for the purpose of the above change. (#50, #75)

### Cleanup/Optimisation

- Refactored entire program with a much stronger object-oriented focus. This opens the door for a lot of backend improvements and optimisation. (#108, #109)
- Re-wrote stats handling to use JSON and classes, making statistics.py a much neater module. (#106, #109)
- Moved arguments checking to its own module, arguments.py. (#52, #75)
- Moved comment handling to its own module, comment.py. (#81, #82)
- Added type hinting. (#101, #103)
- Staticised constant variables. (#97, #96, #98)
- Optimised generation of config.json and praw.ini. (#51, #66, #67)
- Optimised handling of praw.ini, including updating & formatting from CDRemover to OSCR. (#76, #84)
- calculateEssentials() is no longer called unnecessarily. (#53, #59)
- Combined default regexBlacklist items into one regex. (#117, #118)
- Moved the default config variable to globals.py. (#56, #66)
- Made many miscellaneous optimisation and readability improvements. (#77, #78, #79, #84, #96, #104, #109, #112, #114, #118, #120, #121)

### Dependencies

- Added colored for coloured console output. (#94)
- Updated Python requirement to >= 3.5 for type hinting. (#107)

### Documentation/Logs

- Moved documentation to readthedocs. (#93, #99)
- Renamed oscrmodules to core. (#110, #111)
- Moved config.json to ~/.config/oscr on Linux and Mac, and AppData\\Roaming\\oscr on Windows. (#54, #64)
- Changed how praw.ini is read and moved file to ~/.config/oscr on Linux and Mac, and AppData\\Roaming\\oscr on Windows. (#55, #84)
- Improved log output surrounding comment retrieval & checking. (#60, #68)
- Added license specification to setup.py. (#73, #74)
- Changed config guide from bullet point list to table. (#83)
- Added colouring to logs, currently only on warnings. (#91, #94)
- Generally improved log handling. (#95, #96)
- Renamed gvars to Globals. (#100, #102)

### Bug Fixes

- Fixed a crash on attempting to use `--show-config` due to accidentally assigning `Globals()` instance to `gvars.config`. (#45, #58)
- Fixed an infinite loop on attempting to update integer or boolean keys in the settings menu. (#61 #63)
- Fixed regexes sometimes deleting comments that are not bot interactions. (#86, #87)
- Fixed run-time arguments not being processed in the correct priority order. (#88, #90)
- Fixed a crash on passing conflicting run-time arguments. (#89, #90)
- Fixed a potential crash on failing to update a statistic. (#92, #94)

## 7.6 1.2.1

### Functionality

- Added `--version` run-time option to print the currently installed version to the console.

### Cleanup/Optimisation

- Minor optimisation improvements in `log.py`, `misc.py` and `statistics.py`.
- `update()` now uses smaller `None`-type instead of needlessly initialising an empty array.
- Removed `debug time.sleep()` statement from comment checker.

### Dependencies

- `praw`; require `>= 7.1.2`.
- `alive_progress`; require `>= 1.6.1`.

### Documentation/Logs

- Removed credits from start of `main.py`.

### Bug Fixes

- #16: Recursion error on initialising Reddit instance with empty Redditor. (fixed upstream in PRAW 7.1.1)

## 7.7 1.2.0

### Functionality

- Added support for regexes (thanks to /u/metaquarx and /u/Tim3303 for helping with this).
- Added `regex config` key that tells the program whether or not to check comments using regexes, by default set to `False`.
- Added `regexBlacklist config` key, to contain the regexes to check comments against, by default excludes anything with “treasure hunt”.
- Added new `subredditList config` key, containing a whitelist of subreddits the program is allowed to search through; contains only “transcribersofreddit” by default.
- Removed `torOnly config` key as of above change.
- Added a ‘-e’ option to the settings menu, allowing users to escape to the main menu if they accidentally chose the incorrect key.
- Added a `--show-config` run-time option to print the contents of the config file to the console.

- Added a `--credits` run-time option to print the credits to the console.

### Cleanup/Optimisation

- Condensed comment search function thanks to new `subredditList` config key.
- Removed unnecessary `failedStats` check in `fetch()`.
- Changed `initialiseGlobals()` to no longer unnecessarily pass empty lists..
- Removed unused import.
- Removed `python3` env in `main.py`.
- Readability improvements in `settings.py`.

### Dependencies

- `alive_progress`; added.

### Documentation/Logs

- Added a progress bar to console output (not saved to log file).
- Added a “How to use this menu” option to the settings menu.
- Clarified log messages for when OSCR counts less comments than the set limit.
- Added a log message to `--format-cdr` to indicate when `praw.ini` is already formatted to OSCR.
- When encountering a `JSONDecodeError` in `getConfig()`, OSCR now logs what the error was.
- Added copyright notices to the beginnings of all files except `setup.py` and `__init__.py`
- Added a note giving a minimum recommended cutoff of 15 minutes.
- Corrected a spelling error in `README.md`.
- Moved credits from `main.py` to `CREDITS.md`.

### Bug Fixes

- Fixed int and boolean based keys not being updated by the settings menu.

## 7.8 1.1.1

### Cleanup/Optimisation

- Removed lingering debug `print()` statement.

### Documentation/Logs

- Added copyright notices; one at the beginning of the code in the `oscr` script file, and one to be printed to the console when OSCR is run.
- Added repository badges/information to `README.md`

### Bug Fixes

- Fixed #34: Crash caused by comparing `None` to `int()` after settings module output `None`-type to “limit” in `config.json`.
- Fixed #35: Converts all numerical limits to `None`-type.
- Fixed #36: Misleading logs could suggest a bug if available comments are less than the user’s limit.

## 7.9 1.1.0

### Meta

- Renamed project from ClaimDoneRemover (CDR) to Open Source Caretaker for Reddit (OSCR), new PyPi project at: <https://pypi.org/project/oscr/>

### Functionality

- Added a settings menu from which you can edit config.json and praw.ini
- **Added several run-time arguments;**
  - `--format-cdr` renames `.cdremover` and `[cdrcredentials]` to `.oscr` and `[oscr]`, respectively,
  - `--help` displays a list of commands,
  - `--no-recur` forces the program to run only one cycle regardless of ‘recur’ configuration,
  - `--reset-config` resets the config file to defaults,
  - `--settings` runs the settings menu.
- OSCR will now stop attempting to update each statistic after a failure to do so.
- OSCR now defaults non-numeric instances of `config["limit"]` to `None` type
- Global variables are now contained in `gvars` class, passed into all necessary functions.
- `config` is now a global variable.

### Cleanup/Optimisation

- Switched from `.format()` to `fstrings` for more succinct string formatting.
- Squashed some code verbosity; unnecessary variable declarations, if statements with longer conditions than needed, etc.
- Removed unnecessary imports.
- `fetch()` and `update()` no longer unnecessarily globalise variables.

### Documentation/Logs

- Replaced the Notes section in `README.md` with a more informative Additional Help and FAQ section.
- Corrected minor spelling errors in log output and commenting.
- Avoided potential double timestamp in log noting failure to decode `config.json`.
- `createIni()` now logs its attempts to create `praw.ini`

### Bug Fixes

- #26: New “deleted” lines are appended to `stats.txt` rather than just updating one line as was intended.
- #27: Potential error with displaying log message in the format “X/None comments checked successfully”.
- #28: Potential error with displaying log message in the format “X/Y comments checked successfully” where X is greater than Y.
- #29: Incorrect INI Path for Windows (thanks to `/u/-B_L_A_N_K-`)
- #31: Program crash on attempting to fetch `config.json` if the parent directory is missing (see note 6).
- #32: Potential crash if `config['logUpdates']` configuration was set to `false`.



## 7.10 1.0.0

### Meta

- Created PyPi package for the project, link at: <https://pypi.org/project/cdremover/1.0.0/>

### Functionality

- Program is now run through cdremover script (can be used a console command if installed through pip).
- Program now creates praw.ini if it cannot be found (fix for #23).
- Added new cutoffUnit config variable, which is the unit of time the cutoff is measured in converted to seconds.
- Program now resets any search limit value greater than or equal to 1000 to “None”, rather than allowing values greater than 1000 to go unchanged, which could have potentially caused issues with Reddit’s API.
- Made home, log and version variables global throughout all files and functions.

### Cleanup/Optimisation

- Renamed libcdr module cdrmodules; included main.py.
- Optimisation improvements for both increased speed and reduced file size.

### Dependencies

- Moved dependencies from requirements.txt to setup.py so pip will auto-install them.
- Added configparser to dependencies.

### Documentation/Logs

- Moved log and statistics to ~/.cdremover/data.
- Moved config.json to ~/.cdremover.
- **Program now logs the following;**
  - every time it intentionally exits,
  - output related to praw.ini handling,
  - a check for each 25 comments successfully checked.
- Clarified ambiguity in some log messages.
- misc.py functions now log console output.
- Re-wrote README.md to facilitate new installation instructions and other information.
- Began recording release candidate versions during development.
- Added/clarified some commenting.

### Bug Fixes

- #23: Crash if praw.ini is missing or exists without “cdrcredentials” section.
- #24: Crash due to getTime() being declared after the import of a function that attempts to import it.

## 7.11 0.4.5

### Cleanup/Optimisation

- Moved `updateLog()` from `main.py` to `log.py`.
- Moved `getDate()` from `main.py` to `misc.py`.

### Documentation/Logs

- Program now gives meaningful log on failure to decode `config.json`.
- Program now logs what version it is being run with.

## 7.12 0.4.4

### Functionality

- Program now creates a config file using default settings if one is not present. (fixes #18)
- Now passes `logUpdates` variable through every attempt to update the log. (fixes #20)
- Changed default cutoff to 1 hour.

### Documentation/Logs

- Changed to `.json` config file.

### Bug Fixes

- #18: New version downloads may overwrite config files.
- #20: Failing to update the log results in a crash.

## 7.13 0.4.3

### Functionality

- Added “`torOnly`” configuration, to give the user the option to limit the bot to only detect comments from `r/transcribersofreddit`. Set to `True` by default.
- Added “`claiming`” to the default blacklist.
- Program is no longer case sensitive (i.e. `done`s and `claims` containing uppercase letters will still be deleted).

### Documentation/Logs

- Program now logs upon finding a blacklisted comment that is not past the cutoff (i.e. “Waiting for ‘x comment’”).

## 7.14 0.4.2

### Functionality

- Added automated “unclaim” to the default blacklist.

## 7.15 0.4.1

### Bug Fixes

- #17: TypeError on attempting to delete comment.

## 7.16 0.4.0

### Cleanup/Optimisation

- Restructured libcdr library.
- Improved coding and variable names in a few areas.
- Improved error management (part of #14 fix).

### Documentation/Logs

- Restructured console output and log.
- Added timestamps to console output and log
- Added basic commenting.

### Bug Fixes

- #14: Updates log twice per iteration, almost doubling log.txt file.

## 7.17 0.3.1

### Functionality

- Program now auto-creates log.txt if it is absent (part of #11 fix).

### Bug Fixes

- #11: Program crashes if data folder is absent.
- Corrected a mistake in the blacklist causing automated done not to be deleted.

## 7.18 0.3.0

### Functionality

- Added ability to configure whether the program keeps refreshing or only runs through once; recur set to True by default.
- Added automated done/claim to the default blacklist.

### Cleanup/Optimisation

- Improved readability in some places, especially config.py.

### Documentation/Logs

- Data folder is now absent in initial download (part of #9 fix).
- Added note that putting your OS in config.py is optional, and only there for the user\_agent header.
- Added a long-needed credit.

### Bug Fixes

- Fixed #8: Program crashes if no stats.txt file is found.
- Fixed #9: Updates could overwrite old statistics and logs with empty files.

## 7.19 0.2.1

### Documentation/Logs

- Changed output formatting to inline for “Updating log...”
- Added notice that the bot is non-official

## 7.20 0.2.0

### Functionality

- Added configuration options for limit, wait, and unit; set to 100, 10 and minutes by default.
- Added configuration options for the log; set to True by default.
- Added “unclaim” to the default blacklist.

### Cleanup/Optimisation

- Removed unused “import datetime” from main.py.

### Documentation/Logs

- Added a counter to show more detailed real-time output.
- Added a system that logs the console to a .txt file if turned on
- Added a system to save the total statistics for the counter.

### Bug Fixes

- Fixed #1: Does not continually delete comments as they reach cutoff.

## 7.21 0.1.0

### Functionality

- Initial program created.