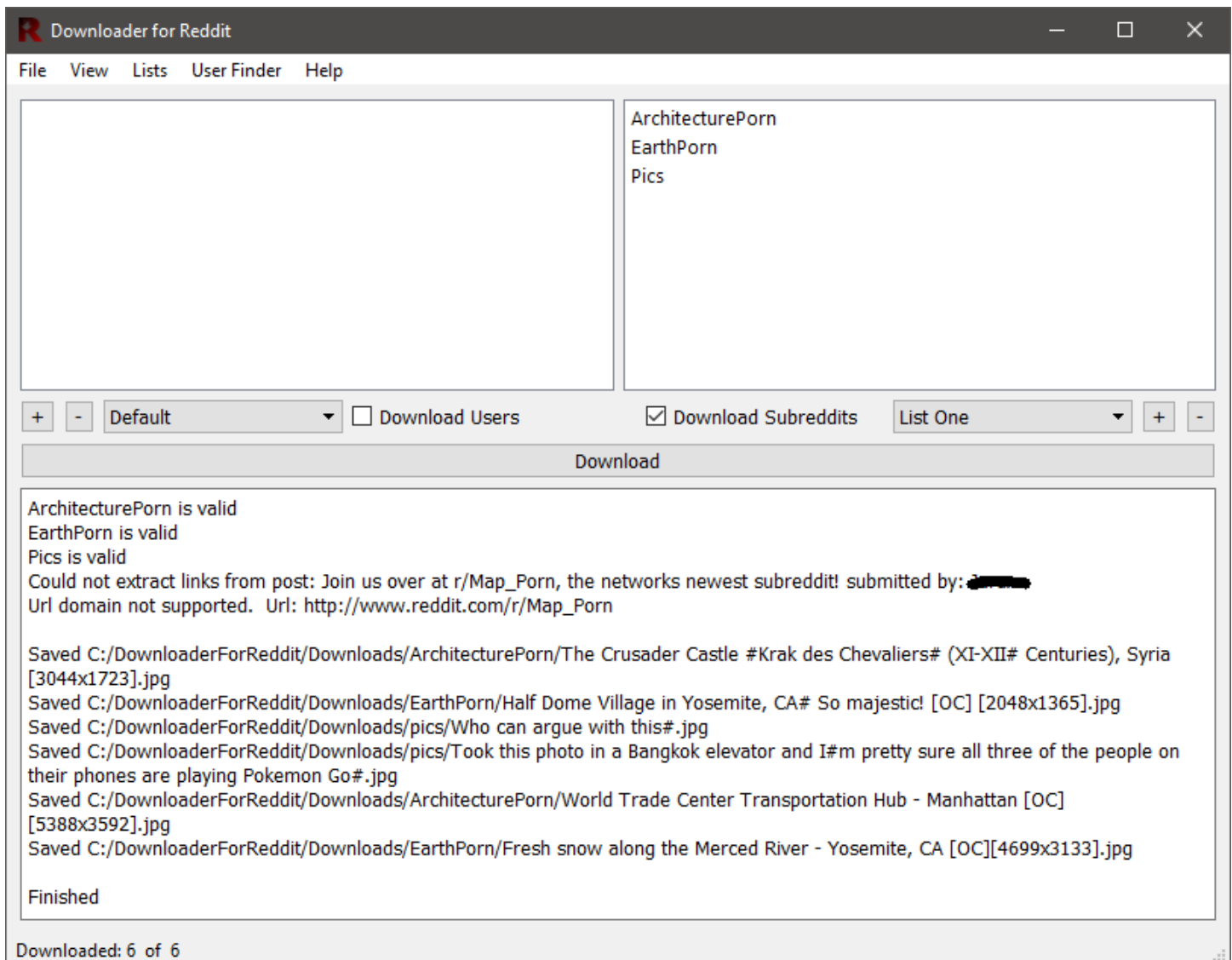


The Downloader For Reddit

Downloader for Reddit is a GUI application for downloading content submitted to reddit. It has many advanced features and customizable settings to extract only content that you want and avoid duplicate downloads (if you so choose).

The main GUI window is based on a similar project, The reddit Data Extractor by NSchradig.

Main Window



In the main window, you can add lists of users or subreddits to download content from. User content is always downloaded in order of newest, and subreddit content order may be changed in the settings located in the file menu.

The downloader will first attempt to verify that each user or subreddit that is to be downloaded exists on reddit. Any time a user or subreddit fails verification a dialog will pop up to alert you as well as ask if you would like to remove the user or subreddit from the list. If the user or subreddit has a download folder in the current save path (meaning that posts were downloaded by that user or subreddit before) and you select to remove the user or subreddit, the download folder will be appended with word 'deleted' after the name so you are aware when looking in the folder that the user or subreddit no longer exists.

To add a user or subreddit you must first add a user or subreddit list. This can be done by either right clicking the dropdown combo box (displayed above with the words "Default" and "List Two") or from the lists menu at the top of the window. This will open a dialog box that allows you to enter the list name. You may make as many different lists as you wish and only the list displayed at the time the download button is clicked will be downloaded. List may be deleted by right clicking the list combo box or from the lists menu.

To add users or subreddits either right click in the user list (left) or the subreddit list (right) and click "add user/subreddit" or select the option from the list menu at the top of the window. This will bring up a dialog box allowing you to enter the names of the user or subreddits. The dialog box has a third option besides ok and cancel which allows you to add multiple users or subreddits without having to close and open the window. Holding shift + enter is a keyboard shortcut for this feature. Users or subreddits may be deleted by right clicking the item you wish to delete or selecting the item then clicking the "-" button under the list.

The user and subreddit lists can be sorted by name, date added, or number of downloads both ascending and descending. These sort options are available in the 'View' menu in the menu bar.

The checkboxes below their respective windows dictate which list will be downloaded when the program is run. Checking both checkboxes will constrain the user downloads to only the content which has been posted to the subreddits in the subreddit list.

Right clicking on a user or subreddit in one of the lists brings up a menu that allows you to open the individual items settings, view the items downloads in an application window, or open the items download folder in the default file manager.

Clicking the download button while the program is running will cancel the current downloads. Any downloads which have already started (may be as many as the simultaneous download thread limit (see settings)) will continue downloading after the button has been clicked and then the downloads will stop. Content extraction and link download will happen simultaneously. If the downloader is stopped, the extraction process will also stop. If the 'Save undownloaded content' checkbox in the settings menu is checked, any content that has been extracted but not downloaded will be saved and

download attempted during the next session. If this checkbox is unchecked, any undownloaded content will be lost when the program is closed.

When download begins, a progress bar will become visible in the lower right hand corner of the window. The progress bar at first shows progress on validating users or subreddits. After users or subreddits have been validated the progress bar resets and will then display the progress on content extraction. Each progress bar step is a user or subreddit for which all content has been extracted. After the first user or subreddit has been extracted, downloading will begin. You will see the number of downloads status appear in the lower left hand corner of the window. Be aware the second number (which represents the total number of files that are to be downloaded) will continue to increase until all extraction has been completed.

The output box will output information in real time as it happens during running. It will output each user or subreddit that is validated and then each post that is saved with the full path the file was saved at. It will also output any posts that fail to extract or download. The output will specify why the download failed (connection error, extraction error, unsupported domain, etc.) as well as tell you the post author, post title, the subreddit the post was submitted to, as well as provide the url for the content so that it may be downloaded manually.

Additionally, under the lists menu there is a selection for 'Failed Downloads.' Clicking this button will bring up a dialog that displays all failed downloads as well as the information listed above. The default is for this dialog to open automatically at the end of a download to alert you to all failed downloads. The auto open feature can be disabled from the dialog.

Also in the lists menu is an option for 'Last Downloaded Users.' This option opens a dialog box which contains a list of the users that had content downloaded during the last session and optionally displays the content in their user download folder.

Note: Before any content can be downloaded from Imgur.com you will need to have an Imgur client-id and client secret.

To obtain this go to <https://api.imgur.com/oauth2/addclient>.

The following settings are recommended:

- Application name: DownloaderForReddit
- Authorization type: Anonymous usage without user authorization
- Authorization callback URL: Any valid url can be used here (ex. <https://google.com>)
- Application website: <https://github.com/MalloyDelacroix/DownloaderForReddit>
- Email: This is the email the client-id and secret will be sent to

This client-id and client secret will be entered in the 'Imgur Client Information' dialog box accessed through the settings menu.

Imgur will allow the application 12,500 api calls per day. If you are using an unusually high amount of Imgur api calls or many calls at a high rate, Imgur may impose a rate limit on your IP address. The application does take some steps to efficiently use api calls to avoid server strain and rate limits, but these can still occur. Certain application features (such as not avoiding duplicate downloads) will increase the number of Imgur api calls and should be avoided during high volume use.

Your remaining Imgur credits, and the time in which user credits reset can be seen in the Imgur credit dialog accessed through the help menu.

When extraction errors occur on Imgur in particular, certain information related to the type of error experienced will be output in the output box when the errors occur. In most of these cases (except an “unable to locate content” error) the reddit post data will be saved and extraction attempted again during the next session.

Settings Window

Settings

?

×

☒ Save Automatically On Close

Backup Lists:

Select Folder

Import Backups:

Select File

Imgur Client Information

☐ Restrict Download By Score

Greater Than

50

Subreddit Sort Type

☒ Hot

☐ Rising

☐ Controversial

☐ New

☐ Top

Hour

Post retrieval Limit (Max: 1000)

25

☒ Inforce User Date Limits

☐ Restrict downloads by date:

12/31/1969 18:00:00

Link Filter

☒ Download Videos ☒ Download Images ☒ Avoid Duplicates

Subreddits save to folder designated by:

Subreddit Name

Name downloaded files by:

Image/Album Id

Select Save Directory

C:/Users/Kyle/Downloads/reddit_downloads/

Number of simultaneous download threads:

6

☒ Save undownloaded content

Total Files Downloaded: 1916

Restore Defaults

Save

Cancel

The main settings window controls the universal settings through the entire program.

From this window, you can:

- Set the program to automatically save on close
- Backup and import user and subreddit lists
- Configure your Imgur client information
- Restrict downloads by post score
- Set the post score limit and whether to only download posts above or below that score
- Set the way that subreddit posts will be ordered (choosing to sort by top will enable a combo box to choose the desired top time-period)
- Set the number of posts to download from (Reddit's api sets the max number at 1000)
- Choose to enforce user date limits*
- Restrict posts to after the specified date
- Choose whether to download videos or images
- Choose whether to avoid downloading duplicate links**
- Set how downloaded subreddit posts are saved and named. The options are:
 - Save the posts in a folder named after the subreddit the post was submitted to
 - Save the posts in a folder named after the user that submitted the post
 - Save the posts in a folder named after the user that submitted the post which is then located in a folder named after the subreddit
 - Save the post in a folder named after the subreddit the post was submitted to which is then located in a folder named after the user that submitted the post
- Set whether downloaded user posts will be named by the name of the post as used on reddit or by the image or album ID used on the hosting site
- Set the directory where you want posts to be saved to
- Dictate the number of simultaneous downloads (the max number of simultaneous downloads is determined by the number of processing cores, both real and logical, in your computer) ***
- Determine whether to save un-downloaded content to be tried again during the next session

The save button must be clicked for these settings to take effect. Saving the settings will also save any main window changes (i.e. user and subreddit lists). After clicking 'Restore Defaults' and resetting all settings options, you must still click save for the settings to take effect.

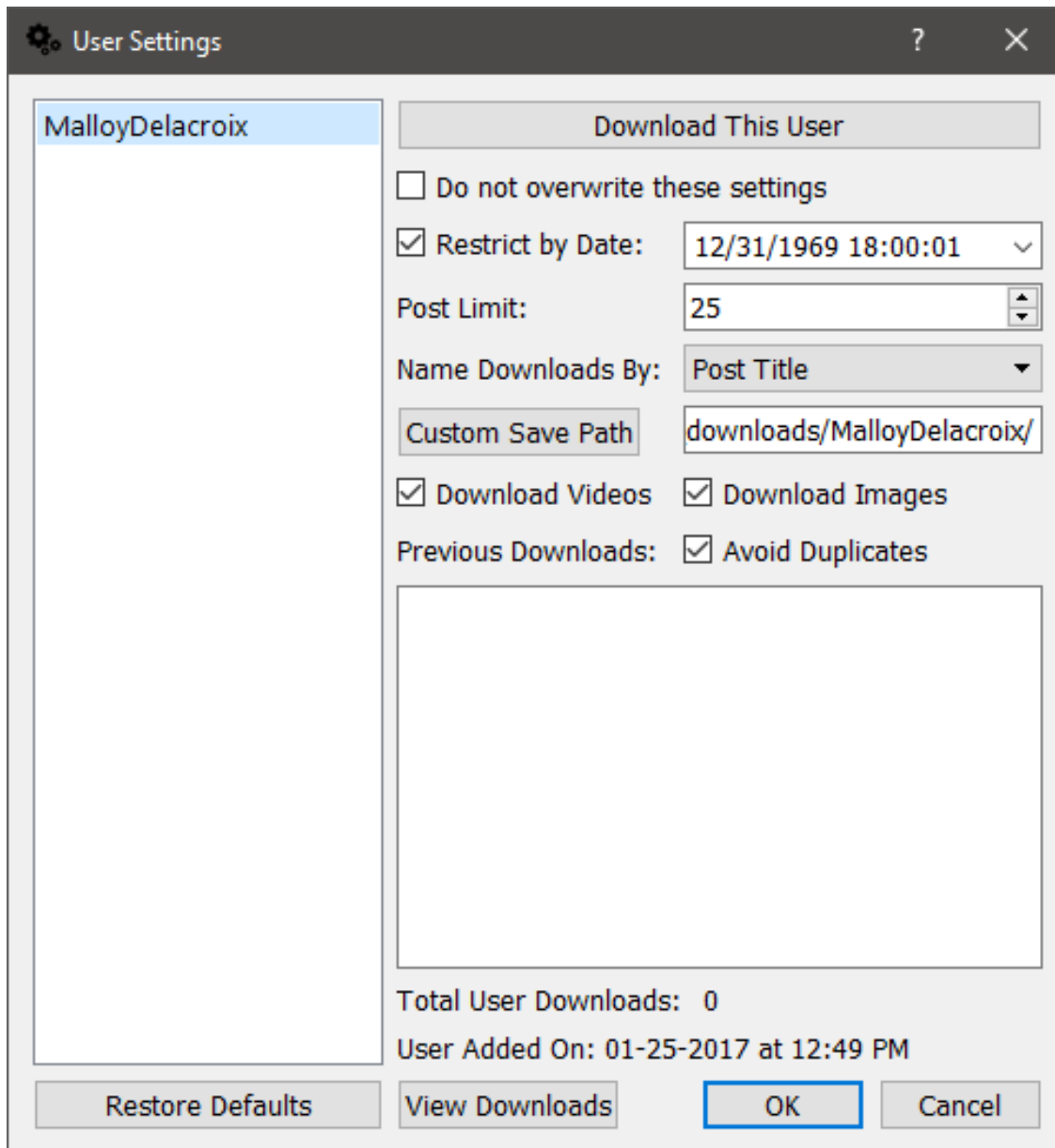
* When content is extracted for a user or subreddit the user or subreddit 'last download date' is set to the latest post that is extracted from reddit. Selecting this option will restrict post retrieval to after this date. There is no way to reset the date, although an alternate date may be set with the next option in the settings window or through each user's individual settings window. When a 'custom date limit' is

set, any post submitted after that date will be retrieved and **unless the 'Do not overwrite these settings' checkbox is checked for the user or subreddit, the custom date will be set back to the user or subreddit last download date when content is extracted.**

** Each time an image or video is downloaded from a user or subreddit the url is saved in the users 'downloaded url list.' If this option is checked the downloader will scan the list to make sure a queued url has not already be downloaded and will remove it from the queue if it has. Disabling this option does not mean the downloader will not save urls, but just means that it will not search the lists before attempting to download.

*** If you experience slow download performance, try adjusting the number of download threads. A higher number here does not automatically equate to increased performance and should be tailored to your particular processor and network capabilities.

User Settings



The 'User Settings' dialog box is shown with the user 'MalloyDelacroix' selected. The window has a title bar with a gear icon, the text 'User Settings', and standard window controls. On the left is a list box containing the user's name. To the right of the list box is a 'Download This User' button. Below this button are several settings: a checkbox for 'Do not overwrite these settings' (unchecked), a checked checkbox for 'Restrict by Date' with a date-time dropdown set to '12/31/1969 18:00:01', a 'Post Limit' spinner set to '25', a 'Name Downloads By' dropdown set to 'Post Title', a 'Custom Save Path' text field containing 'downloads/MalloyDelacroix/', and two checked checkboxes for 'Download Videos' and 'Download Images'. Below these is a 'Previous Downloads' section with a checked checkbox for 'Avoid Duplicates' and an empty list box. At the bottom of the settings area, it shows 'Total User Downloads: 0' and 'User Added On: 01-25-2017 at 12:49 PM'. At the very bottom of the dialog are four buttons: 'Restore Defaults', 'View Downloads', 'OK' (highlighted with a blue border), and 'Cancel'.

MalloyDelacroix

Download This User

☐ Do not overwrite these settings

☒ Restrict by Date: 12/31/1969 18:00:01

Post Limit: 25

Name Downloads By: Post Title

Custom Save Path: downloads/MalloyDelacroix/

☒ Download Videos ☒ Download Images

Previous Downloads: ☒ Avoid Duplicates

Total User Downloads: 0

User Added On: 01-25-2017 at 12:49 PM

Restore Defaults View Downloads OK Cancel

User settings is a way to further refine the downloader settings on a user by user basis. Aside from user settings this window also displays some information about the selected user. It will display the date and time the user was added to the list, the total number of downloads from the user, and a list of the urls that have been downloaded (this list is also used internally to avoid duplicate downloads). By using the 'Download This User' button at the top of the dialog, you can download only the selected user without downloading the rest of the users in the list.

Through the user settings menu you can also:

- Set a user specific post download limit
- Set how downloaded content is named for the user
- Set a custom save location for the user
- Choose to avoid downloading images or videos
- Choose whether or not to avoid duplicates for the user

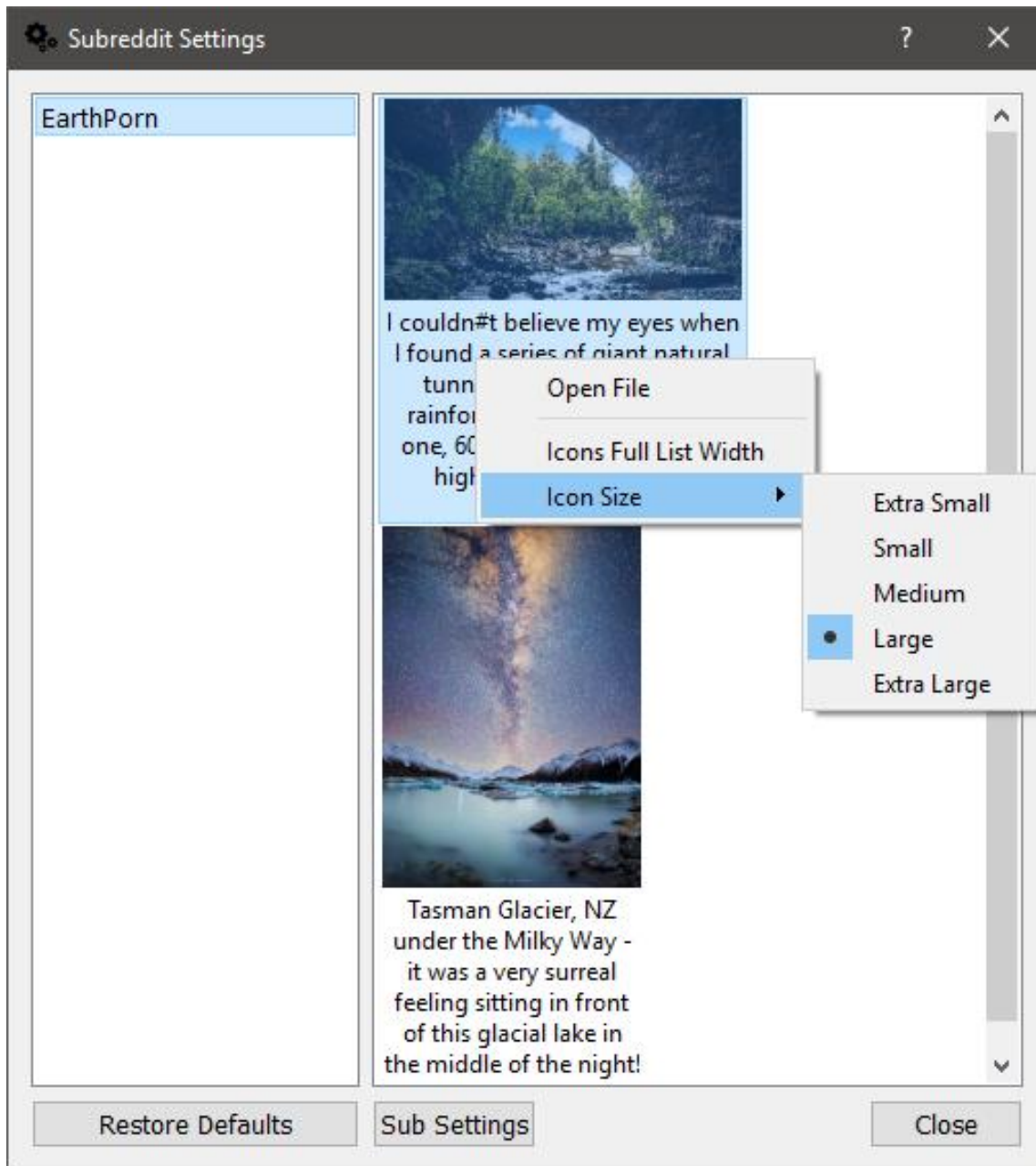
The 'Do not overwrite these settings' checkbox when checked will not allow the main window settings to change the custom settings that you have set for individual users.

The 'Restrict by Date' checkbox restricts downloads to posts submitted after the latest post that has been downloaded for the user. This date is shown in the calendar box beside the checkbox. This date can be set to a custom date and time by clicking the calendar box. Unless the 'Do not overwrite these settings' checkbox is checked, the custom date will be replaced by the post date of the newest content extracted.

Clicking restore defaults will set all options to the way the options are set in the main window settings and uncheck the 'Do not overwrite these settings' checkbox for any user that has it checked. **After clicking 'Restore Defaults' you must then click the 'OK' button to accept the reset changes or they will not be reset.**

Clicking the 'View Downloads' button will display the content currently in the users download folder in place of the settings options (see below).

Downloads View



The downloads view shows content that has been downloaded from a user or subreddit if the content is still in the user or subreddits download folder. This window can be accessed directly from the main window by right clicking the user or subreddit who's downloads you want to see and clicking 'View Downloads'. It can also be accessed by clicking the 'View Downloads' button at the bottom of the user or subreddit settings dialog.

The downloads view contains two lists. The list on the left contains all of the users or subreddits in the current list and the list on the right displays the content in the download folder of the selected user or subreddit.

By right clicking on the user or subreddit name in the left list and then clicking 'Open Download Folder', the download folder for the selected user or subreddit will be opened with the default file manager.

Similarly, by right clicking any of the items in the right content display list, a context menu is opened with further options

Clicking 'Open File' will open the selected image with the default image viewer program. Double clicking the image will have the same result.

The other options are used to control the size of the images that are displayed. When the option 'Icons Full List Width' is checked, the images will be expanded to the full width of the content display list and will be resized as the window is expanded.

None: If the image is taller than it is wide, the image will not fill the entire width of the list.

Subreddit Settings

Subreddit Settings

ArchitecturePorn
EarthPorn
Pics

Download This Subreddit

☐ Do not overwrite these settings

Sort Subreddit By: New

☐ Restrict by Date: 1/25/2017 18:47:15

Post Limit: 25

Name Downloads By: Post Title

Save By Method: Subreddit Name

Custom Save Path: Downloads/reddit_downloads/

☒ Download Videos ☒ Download Images

Previous Downloads: ☒ Avoid Duplicates

<http://i.imgur.com/C2MoAp2.jpg>
<http://i.imgur.com/5MtTEBc.jpg>
<https://i.reddituploads.com/a49c831010dc4e0b8c379d4fa521170d?fit=max&h=1536&w=1536&s=910b99e6e2aa1cf0a20b71254a1546d8.jpg>
<http://i.imgur.com/j5SoCsR.jpg>
<http://i.imgur.com/zWaK1AJ.jpg>
<https://i.redd.it/fm506hdtcvby.jpg>

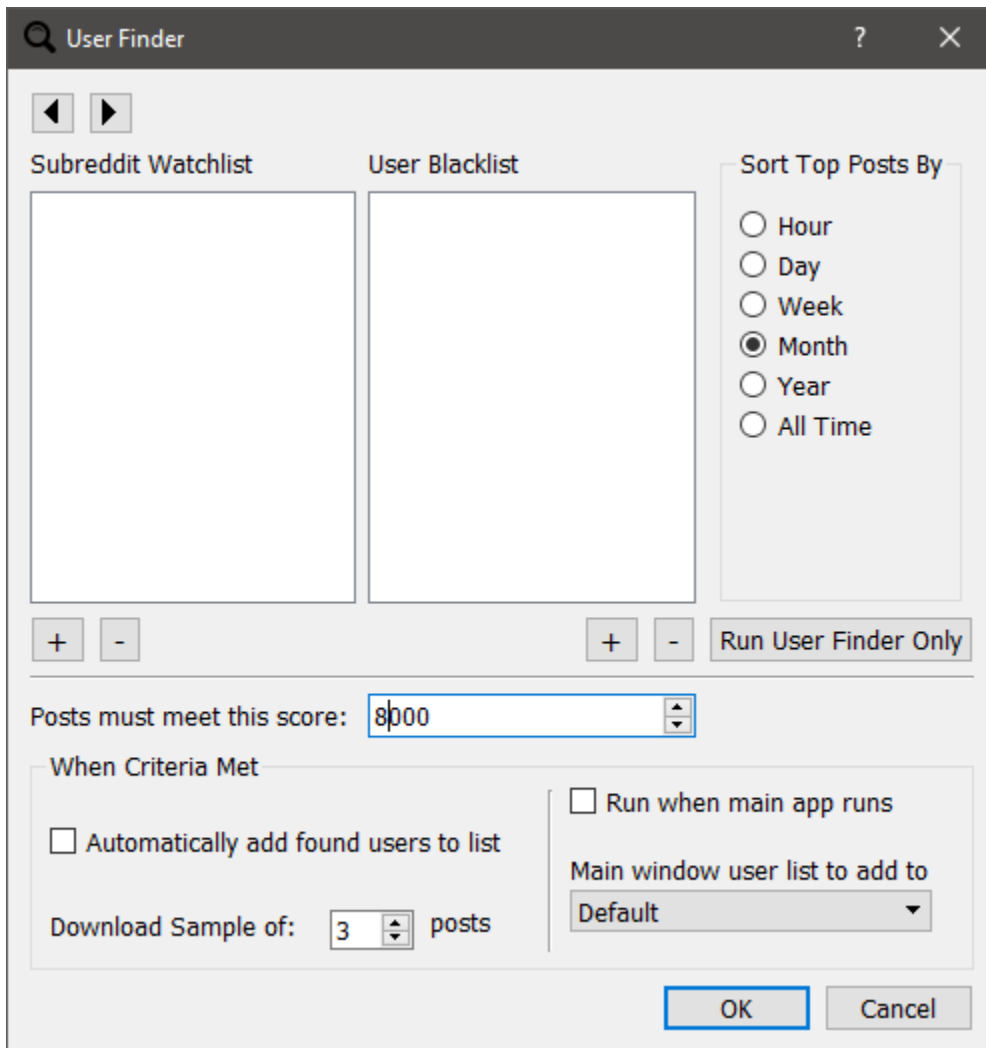
Total Subreddit Downloads: 9

Subreddit Added On: 01-25-2017 at 12:25 PM

Restore Defaults View Downloads OK Cancel

Subreddit settings works identically to the user settings dialog, but with a two more subreddit specific options. You can change how saved subreddit posts will be named when they are saved. The other additional setting is the sort method used to extract submissions from reddit. This option only applies if the 'Download This Subreddit' button is used. The sort method will not be applied to individual subreddits when the main downloader is run.

User Finder



The screenshot shows the 'User Finder' application window. It has a title bar with a search icon, the text 'User Finder', and standard window controls. The main area is divided into three sections: 'Subreddit Watchlist' and 'User Blacklist' on the left, each with a large empty box and '+' and '-' buttons below it; and 'Sort Top Posts By' on the right, which contains radio buttons for 'Hour', 'Day', 'Week', 'Month' (selected), 'Year', and 'All Time'. Below these sections is a row of buttons: '+', '-', '+', '-', and 'Run User Finder Only'. Underneath is a text field labeled 'Posts must meet this score:' with the value '8000' and a small up/down arrow. Below that is a section titled 'When Criteria Met' containing two checkboxes: 'Automatically add found users to list' and 'Run when main app runs'. To the right of these is a label 'Main window user list to add to' and a dropdown menu showing 'Default'. At the bottom left of this section is a label 'Download Sample of:' followed by a text field with '3' and a small up/down arrow, and the word 'posts'. At the bottom right are 'OK' and 'Cancel' buttons.

The user finder allows you to find users who post top scoring content over the set amount of time (hour, day, week, etc.) and add the user to the user list to follow their posts.

The Subreddit Watchlist window is where you will enter subreddits that you want to monitor. The User Blacklist window is for users who consistently post top scoring content that you do not wish to follow. These users will not be included in the results if their posts are in the top.

You can also select to add found users to your main window user list automatically as well as selecting which main window user list you want to add users to.

Setting the download sample size will dictate how many posts are downloaded from found users when the finder is ran.

The user finder can be set to run at the same time as the main downloader by checking the 'Run when main app runs' checkbox. It may also be ran independently by clicking the 'Run User Finder Only' button.

If any users are found to meet the score limit in the designated subreddits they will be added to a list on the second page of the finder dialog and their downloaded content will be displayed beside the list. From this page, you can also add the users to main window user list designated on the first page of the finder.

Content downloaded using the user finder is kept in a separate folder from the rest of the download folders. There will be a folder created in the parent save directory called 'User Finder' which will contain found users download folders.

Any user that is in any of the main window user lists or that has a folder in the User Finder parent folder will not be downloaded or listed by the user finder.

When a found user is deleted from the found users list on the second page of the user finder their download folder in the User Finder parent folder is also deleted. These deleted users are not automatically added to the black list and may be found again if not added to the black list. When deleting a user from the user finder list there is an option to also add the user to the black list automatically.