

## Duplicate File Finder

This program will search input directories and list all the duplicate files found under those directories. Various search constraints such as minimum file size, file type (picture, video, etc.) can be specified. The user will be given the ability to delete manually (via a button) or automatically (via an algorithm)

Note: Duplicate files are defined as those files whose contents are the same, but filename or other attributes such as date modified may be different.

The results of the duplicate search will be sorted by size (largest first). Thumbnails will be included for picture and video files to make identifying file easy at first glance.

Note: We need to think of smart ways to enable the user to be able to make sense of what could potentially be a large data set. For example, while going through the results she may decide that results from a given subdirectory are irrelevant and should be ignored, or that a certain minimum file size threshold should be employed, or that she only wants to see certain types of files. (Some of these constraints can be specified prior to search, but perhaps tightened after the search results are complete)

Various types of auto-deletion can be employed. The user may want to use directory precedence to aid the auto-deletion algorithm. For e.g. files in a certain backup directory should be preferentially deleted over files in the original directory. The auto-deletion algorithm could be any one of (1) permanently delete or (2) move to recycle bin or (3) move to another directory.

The user should have the ability to copy file paths to the clipboard. He should also have the ability to export the search results to a comma (or pipe) separated file. We may also want to provide the ability to save search results.

### Future Plans

Support for searching cloud-based repositories will be added at a later date