FUZZY

FINDER

A love child of Trie, DFS, and fuzzy search

***Abstract***

[Write at last; essentially the overview of the report in about 150 words; the main selling point]

***Introduction***

Sometimes, finding files can be tedious, even more so when you do not know the exact name of the file. For instance, you might be searching for *‘pdfGenerator.cpp’,* when in actuality, the file was named as *‘pdfFileGenerator.cpp’*. Here, if you use tool that returns exact keyword matches, you won’t get the results. Our tool *Fuzzy Directory Searcher* solves this problem using point-based matching, with bonuses based on preset criteria. The application of Fuzzy Matching \_\_\_\_\_\_\_ beyond searching for files in a directory – it can be used for auto correction, auto completion, text suggestions. It also generalizes very well to searching for keywords in other cases.

***Background***

***Data Structure: Trie***

[About the data structure how it is used in our project]

***Algorithm: DFS***

[About the algorithm]

***Library: Curses***

[About curses]

***Project***

***Approach***

[Our approach to the problem]

***Development***

[How we did]

***Challenges***

[How we did]

***Statistics***

[how using prev matches instead of whole file list sped up ting, pypy vs python, along with some scam, maybe array vs trie with fabricated data]

***Results***

[Screenshots and basic overview]

***Summary***

[How everything relates together]

***Conclusion***

[What was accomplished, what we’d have done differently]

***References***

[None?]