

Read/Write Files

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Files

An alternative from using Terminal

Read data from files and write to files

Works similar to cout and cin

Reading Files

#include <fstream>

Must first instantiate variable with type fstream, e.g.:
 fstream myfile;

Reading Files cont'd

• To open an existing file:

```
fstream myfile;
myfile.open("Filename.txt")
```

Reading is almost identical to cin except use variable name.

```
string words;
```

myfile >> words; //Use this to get a word(separated by a

recurring character, generally a space)

getline(myfile, words);//Use this to get a whole line

Writing to Files

Must use: #include <fstream>

Still need to instantiate a variable of type fstream:
 fstream otherfile;

Do it the same way you would with cout:
 otherfile << "This is text" << endl;

Types of Writing

• Append:

- Adds on to the end of whatever file you are writing to
- Use .open("Textfile.txt", ios::app | ios::in | ios::out)

Overwrite:

- Default option when using .open("Textfile.txt")
- As you insert into a file, it replaces what was there as you type
- Alternatively, you can use .open("Textfile.txt", ios::trunc | ios::in | ios::out)
- This, or .clear() will delete the contents of the file either when or after it opens

Helpful Functions

• .eof(): returns true if you are at the end of the file.

.close(): closes the file. ALWAYS CLOSE FILES YOU HAVE OPENED!

• .is_open(): returns true if file in question is open.

.clear(): deletes the contents of a file