

CSC209 Week 5 Notes

Hyungmo Gu

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Files in C 1 of 5

- Opening file

- **Syntax:** `*fopen(const char *filename, const char *mode)`
- the import file should be in the same folder as 'a.out' (default)
- Mode Strings
 1. *r* - File opened for reading
 2. *w* - File opened for writing
 3. *a* - File opened for appending

```
1  #include <stdio.h>
2
3  int main() {
4      FILE *sample_file;
5
6      sample_file = fopen("example_sources/sample.txt", "r");
7      if (sample_file == NULL) {
8          fprintf(stderr, "Error opening file \n");
9          return 1;
10     }
11
12     ...
13
14     return 0;
15 }
16
```

- Closing file

- **Syntax:** `fclose(FILE *filename)`
- returns 0 if close successful

```
1  #include <stdio.h>
2
3  int main() {
```

```
4     FILE *sample_file;  
5  
6     ...  
7  
8     if (fclose(sample_file) != 0) {  
9         fprintf(stderr, "fclose failed\n");  
10        return 1;  
11    }  
12  
13    return 0;  
14 }  
15
```