

CSC209 Week 3 Notes

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Shell Programming 4 of 6

- File Descriptors
 - works with I/O redirection
 - **0**: Standard Input
 - **1**: Standard Output

- * Channels all output
- * `1>` is the same as `>`

```
1 >>> cat sample.txt> output.log
2 >>> cat sample.txt1> output.log # identical
3
```

- **2**: Standard Error
 - * Channels all error output

```
1 >>> cat 2> error.log
2
```

- I/O redirection
- `$@`
- `${x}`