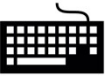


Mastering Linux Command-line


Standard I/O & Redirection >

1

Standard Input/Output



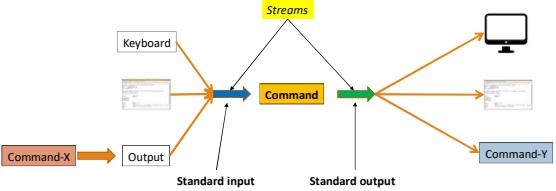
Standard Input (stdin)



Standard Output (stdout)

2

Standard I/O



```
graph LR; Keyboard --> SI[Standard input]; Output --> SI; SI --> Command; Command --> SO[Standard output]; SO --> CommandY[Command-Y]; SO --> Monitor;
```

3

Redirection

- Input Redirection `<`
- Output Redirection `>`
- Output Redirection with appending `>>`
- Passing output of one command, as input to another command `|`

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4

File Descriptors

- Everything is a file in Linux.
- Regular files, directories, and even Hardware Devices are files.
- All these files have associated number called File Descriptors.

- Printer will have a file descriptor.
- Terminal will also have a file descriptor.

Type	Integer Value	File Stream
Standard Input	0	stdin
Standard Output	1	stdout
Standard Error	2	stderr

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5

Standard I/O – File Descriptors

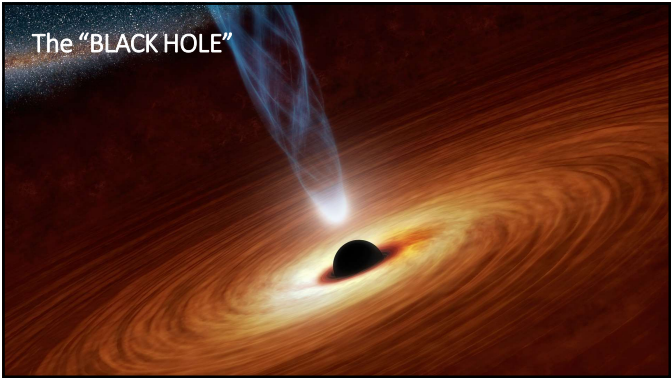
```
graph LR; SI[Standard input 0] --> C[Command]; C --> SO[Standard output 1]; C --> SE[Standard Error 2];
```

Type	Integer Value	File Stream
Standard Input	0	stdin
Standard Output	1	stdout
Standard Error	2	stderr

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6



7

The Linux “BLACK HOLE”

- Linux Black Hole → **/dev/null**
- Use “>” or “>>”
- Output is not displayed
- Anything directed to /dev/null is ignore by the system.
- /dev/null → Character Special file

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8
