

Notes 7

CAT

- **Definition:**
 - Displays the contents of files and concatenates them.
 - **Usage:**
 - `cat [options] [file(s)]`
 - **Examples:**
 - Display the content of a file:
 - `cat file.txt`
 - Concatenate multiple files:
 - `cat file1.txt file2.txt > merged.txt`
 - Display line numbers:
 - `cat -n file.txt`
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TAC

- **Definition:**
 - Displays file contents in reverse order (last line first).
 - **Usage:**
 - `tac [options] [file(s)]`
 - **Examples:**
 - Display a file in reverse:
 - `tac file.txt`
 - Combine multiple files in reverse:
 - `tac file1.txt file2.txt`
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HEAD

- **Definition:**
 - Displays the first lines of a file.
 - **Usage:**
 - `head [options] [file]`
 - **Examples:**
 - Display the first 10 lines:
 - `head file.txt`
 - Display the first 5 lines:
 - `head -n 5 file.txt`
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TAIL

- **Definition:**
 - Displays the last lines of a file.

- **Usage:**
 - `tail [options] [file]`
 - **Examples:**
 - Display the last 10 lines:
 - `tail file.txt`
 - Display the last 5 lines:
 - `tail -n 5 file.txt`
 - Display the last 50 bytes:
 - `tail -c 50 file.txt`
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CUT

- **Definition:**
 - Extracts specific parts of each line of a file.
 - **Usage:**
 - `cut [options] [file]`
 - **Examples:**
 - Extract the first column:
 - `cut -f1 file.txt`
 - Extract characters 1 to 5:
 - `cut -c1-5 file.txt`
 - Extract fields separated by a delimiter:
 - `cut -d':' -f1 /etc/passwd`
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SORT

- **Definition:**
 - Sorts the contents of a file.
 - **Usage:**
 - `sort [options] [file]`
 - **Examples:**
 - Sort alphabetically:
 - `sort file.txt`
 - Sort numerically:
 - `sort -n file.txt`
 - Remove duplicates while sorting:
 - `sort -u file.txt`
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WC

- **Definition:**
 - Counts lines, words, and characters in a file.
- **Usage:**
 - `wc [options] [file]`
- **Examples:**

- Count lines, words, and characters:
 - `wc file.txt`
 - Count only words:
 - `wc -w file.txt`
 - Count only lines:
 - `wc -l file.txt`
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TR

- **Definition:**
 - Translates or deletes characters.
 - **Usage:**
 - `tr [options] set1 set2`
 - **Examples:**
 - Replace spaces with tabs:
 - `tr ' ' '\t' < file.txt`
 - Delete vowels:
 - `tr -d 'aeiou' < file.txt`
 - Convert lowercase to uppercase:
 - `tr 'a-z' 'A-Z' < file.txt`
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DIFF

- **Definition:**
 - Compares two files and shows the differences.
 - **Usage:**
 - `diff [options] file1 file2`
 - **Examples:**
 - Compare two files:
 - `diff file1.txt file2.txt`
 - Display side-by-side differences:
 - `diff -y file1.txt file2.txt`
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GREP

- **Definition:**
 - Searches for a pattern in a file and displays matching lines.
- **Usage:**
 - `grep [options] pattern [file(s)]`
- **Examples:**
 - Search for a word:
 - `grep 'word' file.txt`
 - Case-insensitive search:
 - `grep -i 'word' file.txt`
 - Count occurrences of a word:

- `grep -c 'word' file.txt`
- Search recursively in a directory:
 - `grep -r 'word' directory/`