Linux Basic Commands Cheat Sheet

Basics

```
#!/bin/bash                    - Shebang to define interpreter
echo 'Hello World'             - Print text
# This is a comment            - Single-line comment
read var                       - Take user input into variable
$var                           - Access variable value
```

Variables & Conditions

```
var=value                      - Assign value to variable
if [ $a -eq $b ]; then ... fi  - If statement
elif ...                       - Else-if
else ...                       - Else
[ -f file ]                    - Check if file exists
```

Loops

```
for i in {1..5}; do ... done           - For loop
while [ condition ]; do ... done       - While loop
until [ condition ]; do ... done       - Until loop
break                                  - Exit loop
continue                               - Skip to next loop iteration
```

Functions

```
function name() { ... }        - Define a function
name                           - Call function
return <val>                   - Return value from function
```

File & Directory Operations

```
touch file.txt                 - Create file
mkdir dir                      - Create directory
rm file.txt                    - Remove file
cp file1 file2                 - Copy file
mv old new                     - Move or rename
```

User Input & Arguments

```
$1, $2, ...                    - Access script arguments
```

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```
$#                                  - Number of arguments
$@                                  - All arguments
shift                               - Shift positional arguments
```

Special Variables

```
$?                                  - Exit status of last command
$$                                  - Process ID of the script
$0                                  - Script name
```

Advanced Topics

```
grep 'pattern' file                 - Search for pattern
awk '{print $1}' file               - Pattern scanning
sed 's/a/b/' file                   - Stream editing
cron                                - Schedule jobs
trap 'command' SIGINT               - Catch signals
```