Command Line & Git

This cheat sheet provides a quick reference for essential command-line operations and Git version control workflows. From setting environment variables and running Python scripts to managing files, directories, and permissions, the command-line section equips you with the tools to streamline everyday tasks. Whether you're redirecting output, piping commands, or working with CSV files, these commands simplify working with data and files efficiently.

The Git section covers foundational version control tasks, such as initializing repositories, committing changes, and managing branches. It also includes advanced workflows like stashing changes, merging branches, and interacting with remote repositories. These commands help you track, share, and collaborate on your projects with ease, ensuring your work stays organized and secure.

Designed for data professionals, developers, and anyone working in a terminal, this cheat sheet is your go-to resource for staying productive on the command line and mastering Git. Whether you're automating tasks, exploring data, or managing code, this handy resource ensures you can work effectively and confidently.

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Command Line

Syntax for	How to use	Explained	Syntax for	How to use	Explained
Setting Environment Variables	export VAR=value	Sets an environment variable VAR to value.	Viewing File Contents	cat file.txt	Displays the contents of file.txt.
Running Python Scripts	python script.py	Runs a Python script from the command line.	Searching Text	grep "pattern" file.txt	Searches for "pattern" in file.txt.
Printing Text	echo "Hello, World!"	Prints "Hello, World!" to the terminal.	Redirecting Output	command > file.txt	Redirects command output to file.txt.
Changing Directory	cd /path/to/directory	Changes the current directory to the specified path.	Appending Output	command >> file.txt	Appends command output to file.txt.
Listing Files	ls -l	Lists files in the current directory with detailed information.	Changing File Permissions	chmod 755 script.sh	Sets the permissions of script.sh to 755.
Creating Directories	mkdir new_directory	Creates a new directory named new_directory.	Checking Disk Usage	du -h	Displays disk usage in human- readable format.
Deleting Files	rm file.txt	Deletes the file named file.txt.	Finding Files	find /path -name "filename"	Searches for files named "filename" in /path.
Copying Files	cp source.txt destination.txt	Copies source.txt to destination.txt.	Running Python Modules	python -m script	Runs a Python module as a script.
Moving and	<pre>mv old_name.txt new_name.txt</pre>	Renames or moves <pre>old_name.txt</pre> to new_name.txt.			





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Command Line

	Syntax for	How to use	Explained	Syntax for	How to use	Explained
	Starting a Bash Shell	bash	Starts a Bash interactive shell.	Initializing a Repository	git init	Initializes a new Git repository.
	Printing Columns with	awk '{print \$1}' file	Prints the first column of a file.	Cloning a Repository	git clone URL	Clones a repository from a remote URL.
	AWK Filtering CSV Rows	csvgrep -c column -m value file.csv	Filters rows in a CSV file by column value.	Checking Repository Status	git status	Displays the status of the working directory and staging area.
	Starting IPython Shell	ipython	Starts an IPython interactive shell.	Adding Files to Staging	git add file.txt	Adds file.txt to the staging area.
To Es	Appending Text to File	echo "text" >> file.txt	Appends "text" to the end of file.txt.	Committing Changes	git commit -m "message"	Commits staged changes with a message.
	Extracting CSV Columns	csvcut -c column file.csv	Extracts a specific column from a CSV file.	Viewing Commit History	git log	Shows the commit history.
	Getting CSV Statistics	csvstat file.csv	Provides statistics about a CSV file.	Creating a New Branch	git branch branch_name	Creates a new branch named branch_name.



Command Line & Git Cheat Sheet





Switching

Branches

git checkout branch_name

Switches to the branch named

branch_name.



Remote

Syntax for	How to use	Explained	Syntax for	How to use	Explained
Merging Branches	git merge branch_name	Merges branch_name into the current branch.	Aborting a Merge	git mergeabort	Aborts a merge in progress.
Adding a Remote Repository	git remote add origin URL	Adds a remote repository.	Stashing Changes	git stash	Stashes changes in the working directory.
Pushing Changes to Remote	git push origin branch_name	Pushes changes to the remote repository.	Applying Stashed Changes	git stash apply	Applies stashed changes.
Pulling Changes from	git pull origin branch_name	Pulls changes from the remote repository.	Deleting a Branch	git branch -d branch_name	Deletes the branch named branch_name.





