Comparison Chart: 'git reset' Soft, Mixed, and Hard

This chart will help you compare the three different flavors of 'git reset': soft, mixed, and hard. Commands you would type at the command line are shaded blue. These commands should be typed in the software project's folder on your computer.

IMPORTANT NOTE: Do not use 'git reset' on a commit that was already pushed to a remote repository.

	git resetsoft	git resetmixed	git resethard
Goal of Command	Roll back from committed to staged changes. Rolled-back changes still exist in the staging area, but will need to be re-committed before they can be pushed to a remote repository.	Roll back from committed to unstaged changes. Rolled-back changes still exist in the working directory, but will need to be readded and re-committed before they can be pushed to a remote repository.	Roll back to a previous commit with no record of the changes you are discarding. Note: Can be dangerous! Do not use this command unless you are sure it is what you want.
Example Reasons for Use	To alter a commit (for example, to change the commit message or include additional changes in the commit).	To make additional changes to your software project in the working directory and then restage and re-commit all changes as a group.	To remove unwanted changes that were committed.
Command syntax to roll back one commit	git resetsoft HEAD^	git resetmixed HEAD^	git resethard HEAD^

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	git resetsoft	git resetmixed	git resethard
Command syntax to roll back multiple commits	git resetsoft HEAD~# where # is the number of commits to roll back	git resetmixed HEAD~# where # is the number of commits to roll back	git resethard HEAD~# where # is the number of commits to roll back
Alternate command syntax	git resetsoft ###### where ####### is the commit ID (hash) to roll back to	git resetmixed ###### where ###### is the commit ID (hash) to roll back to	git resethard ###### where ###### is the commit ID (hash) to roll back to