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Edit

Git revisions cheatsheet

A list of revision specifications you can use with `git log` and many other Git commands. Summarized from `gitrevisions(7)` man page.

Example usages

`git log master...develop`	inspect differences in branches
`git rebase -i HEAD~3`	rebase last 3 commits
`git reset --hard HEAD@{2}`	undo last operation that changed HEAD
`git checkout v2^{}`	checkout the v2 tag (not v2 branch)

The 3rd argument in each of these commands is a `gitrevision`. These gitrevisions can be passed to many Git commands.

Common git revisions

`git show dae68e1`	
`git show HEAD`	
`git show v1.0.0`	
`git show master`	lo
`git show origin/master`	rem
`git show master~2`	2 commits back fr
`git show master..fix`	reachable from fix but
`git show master...fix`	reachable from fix and mas

Reference

Commits

`git checkout dae68e1`	sha1

Searching back

`git checkout master@{yesterday}`	also 1 day ago, etc
`git checkout master@{2}`	2nd prior value
`git checkout master@{push}`	where master would push to
`git checkout master^`	parent commit
`git checkout master^2`	2nd parent, eg, what it merged
`git checkout master~5`	5 parents back
`git checkout master^0`	this commit; disambiguates from tags
`git checkout v0.99.8^{tag}`	can be commit, tag, tree, object
`git checkout v0.99.8^{}`	defaults to {tag}
`git checkout ":/fix bug"`	searches commit messages

Ranges

Ranges

`git log master`	reachable parents from master

These are just the common ones, there's a lot more below! (Thes many other commands, not just `git show`.)

References

`git checkout HEAD`	
`git checkout master`	
`git checkout v1.0.0`	
`git checkout origin/master`	aka, refs/remotes/ori
`git checkout heads/master`	aka, refs/he

Other

`HEAD:README`
`0:README`

Ranges illustration

`git log ^master`	exclude reachable parents from master
`git log master..fix`	reachable from fix but not master
`git log master...fix`	reachable from fix and master, but not both
`git log HEAD^@`	parents of HEAD
`git log HEAD^!`	HEAD, then excluding parents's ancestors
`git log HEAD^{:/fix}`	search previous HEADs matching criteria

```
A ─┬─ E ── F ── G   master
   │
   └─ B ── C ── D   fix
```

`git log master..fix`	
`git log master...fix`	BC

References

- Git Tools - Revision Selection (git-scm.com)
- gitrevisions(7) (kernel.org)

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