

Create a new git/git-annex repo

```
mkdir ~/aNewRepo && cd ~/aNewRepo
git Standard git repo init
git init .
🔌 Create git-annex1 repo
git-annex init . "R2D2-aNewRepo"
```

¹ <http://git-annex.branchable.com/>

- 📌 Suggest location-repo name scheme for multi git repo setups
ie. R2D2-aNewRepo
- 📌 Suggest location-repo-annex name scheme for multi git-annex repo setups
ie. R2D2-aNewRepo-Annex

⚙️ Customizations

```
git Override global git config (optional)
cd ~/aNewRepo
git config user.name name
git config user.email email
# Speed up large commits at memory cost1
git config annex.queuesize 1024000
# Add metadata {a,c,m}time at first commit2
git config annex.genmetadata true
# Change how git-annex lookup files3
git config annex.backends {MD5E,WORM,...}
```

¹ Default is 102400

² Filesystem metadata can only be added during initial commit

³ Lots of other hashes to include SHA1,

SHA256E(default).

📁 MD5E is useful for correlation against legacy media.

📁 WORM is useful for fast imports and media files prone to changing metadata.

Indirect/Direct Mode

```
⚠️ Use git-annex in direct mode
git-annex direct
# Use git-annex in indirect mode
git-annex indirect
```

Default is **indirect** mode.

🖥️ Direct mode is used when a filesystem can't support sym links like FAT32 or when operating in a Windows OS.

🍏 🍏 NTFS/exFAT can still be used.

🍏 ? OSX might cover FAT32 deficiencies and work in indirect mode.

📌 git-annex repos can be switched between direct and indirect at will.

⚠️ Operating in direct mode takes away some of git-annex's safety in ensuring the availability of a file.

Helpful Aliases

```
alias ga='git-annex'
alias gaa='git-annex add'
alias gas='git-annex sync'
alias gag='git-annex get'
alias gad='git-annex drop'
alias gal='git-annex unlock'
alias gau='git-annex unused'
alias gam='git-annex move'
alias gac='git-annex copy'
alias gaf='git-annex fsck'
alias gai='git-annex info'
alias gaw='git-annex whereis'
```

File Management (indirect mode)

```
# Use git-annex instead of git1
git-annex add afile
🔓 Unlock a file for editing
git-annex unlock afile && echo ' ' >> afile
git mv afile bfile
git rm bfile
git commit -a -m "commit msg"
```

¹ Faster for large binary files

File Management (direct mode)

```
# git add/rm/mv will not work in direct mode
git-annex add afile
mv afile bfile
rm bfile
# git commit will not work in direct mode
# Use git-annex sync in lieu of git commit
git-annex sync -m "commit msg"
🔙 Undo change as git revert will not work1
git-annex undo afile
```

¹ Use with --depth to revert to earlier versions of file

! Use of git-annex sync` is crucial in direct mode

Web/Torrent Sources

```
alias ga='git-annex'
🔗 Use git-annex to add afile from the web1
ga addurl http://fqdn/afile --file afile
# Add an URL to a file after the fact
git-annex addurl afile http://fqdn/afile
# Download/Add the contents of a torrent
ga addurl http://fqdn/a.torrent
📡 Add the contents of magnet link
```



By **babobba**
cheatography.com/babobba/

Not published yet.
Last updated 15th March, 2015.
Page 1 of 2.

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Web/Torrent Sources (cont)

```
ga addurl magnet?....
```

¹ If --file is not specified, the filename is appended to the fqdn. **Not usually desired.**

Adding remotes

```
cd /mnt/usb
git Standard git clone
git clone ~/aNewRepo
cd aNewRepo
# Init git-annex with a unique name
git-annex init "XWING-aNewRepo"
git Standard git remote config in new USB repo
git remote add R2D2 ~/aNewRepo
git Std git remote config from origin repo
cd ~/aNewRepo
git remote add XWING /mnt/usb/aNewRepo
```

cp/mv/drop/find on remotes

```
cd ~/aNewRepo
📄 Copy from this repo to a remote
git-annex copy afile --to XWING-aNewRepo
# Moves a file from this repo to a remote
git-annex move afile -t XWING-aNewRepo
📄 Copy to this repo from a remote
cd /mnt/usb/aNewRepo
git-annex move bfile --from R2D2-aNewRepo
# Removes file from current repo only2
git-annex drop afile
🔍 Find who has a copy of a file
git-annex whereis afile
```

¹ Checks against numcopies

² Checks against numcopies. Use for space management.

Sync Repos

```
⚠ Sync repo metadata - No content
cd /mnt/usb/aNewRepo
git-annex sync R2D2-aNewRepo
⇄ Sync metadata and content
git-annex sync R2D2-aNewRepo --content
```

Special Remotes (To Do)

```
📄 bup1
```

¹ <https://bup.github.io/>

Extra

```
# Tell git-annex to not rely on a repo1
git-annex untrust C3PO-aNewRepo
🚫 Tell a repo is no longer available
git-annex dead JABBA-aNewRepo
```

¹ We all know C3PO is flaky. git-annex by default only **semi-trusts** a repo. You can use this with remotes using direct mode, cloud storage, etc.

Repo maintenance

```
# Show git-annex information
git-annex info
# Fsck git-annex repo
git-annex fsck
🗑 Do git garbage collection
git gc
# Show unused objects in the repo1
git-annex unused
```

¹ These are objects that have not been dropped, but removed from a branch. Might want for archival reasons. Best to copy to an archival remote like bup.

Tags/Branches/Views [To Do]

Add git-annex to existing git repos [To Do]



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