

### 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 . " R2D 2-a New R
ep o"
```

<sup>1</sup> <http://git-annex.branchable.com/>

**i** Suggest locati on-repo name

scheme for multi git repo setups

ie. R2D2-a NewRepo

**i** Suggest locati on- rep o-annex

name scheme for multi git-annex repo

setups

ie. R2D2-a New Rep o-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.q ue uesize 1024000
# Add metadata {a,c,m}time at first commit2
git config annex.g en met adata true
# Change how git-annex lookup files3
git config annex.b ac kends {MD5E, WORM
...}
```

<sup>1</sup> Default is 102400

<sup>2</sup> Filesystem metadata can only be added during initial commit

<sup>3</sup> Lots of other hashes to include SHA1, SHA256E(default).

**i** MD5E is useful for correlation against legacy media.

**i** 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.

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

**i** NTFS/exFAT can still be used.

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

**i** 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 t-a nnex'
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 git<sup>1</sup>

```
git-annex add afile
```

**i** Unlock a file for editing

```
git-annex unlock afile && echo ' '
```

```
git mv afile bfile
```

```
git rm bfile
```

```
git commit -a -m " commit msg"
```

<sup>1</sup> 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"
```

**i** Undo change as git revert will not work<sup>1</sup>

```
git-annex undo afile
```

<sup>1</sup> 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'

**i** Use git-annex to add afile from the web<sup>1</sup>

```
ga addurl http://fq dn/ afile --f
ile
```

**#** Add an URL to a file after the fact

```
git-annex addurl afile http://fq
ile
```

**#** Download/Add the contents of a torrent

```
ga addurl http://fq dn/ a.t orren
```

**i** Add the contents of magnet link



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### Web/Torrent Sources (cont)

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

<sup>1</sup> 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- aNe wRe po"
```

**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- aNe wRe po
```

```
o
```

**#** Moves a file from this repo to a remote

```
git-annex move afile -t XWING- aNe wRe po
```

**Copy** to this repo from a remote

```
cd /mnt/usb/aNewRepo
```

```
git-annex move bfile --from R2D2- aNewRepo
```

```
o
```

**#** Removes file from current repo **only**<sup>2</sup>

```
git-annex drop afile
```

**Q** Find who has a copy of a file

```
git-annex whereis afile
```

<sup>1</sup> Checks against numcopies

<sup>2</sup> 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)

**bup**<sup>1</sup>

<sup>1</sup> <https://bup.github.io/>

### Extra

**#** Tell git-annex to not rely on a repo<sup>1</sup>

```
git-annex untrust C3PO- aNewRepo
```

**⊘** Tell a repo is no longer available

```
git-annex dead JABBA- aNewRepo
```

<sup>1</sup> 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
```

**#** Fck git-annex repo

```
git-annex fsck
```

**🗑** Do git garbage collection

```
git gc
```

**#** Show unused objects in the repo<sup>1</sup>

```
git-annex unused
```

<sup>1</sup> 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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