Mercurial Usage

http://www.selenic.com/mercurial

Create

From scratch

```
hg init ~/projects/myproject
```

From existing data

```
cd ~/projects/myproject
hg init
hg add -X "*.bak"
```

From existing repo

```
hg clone ~/projects/myproject
         ~/workspace/myproject-wip
```

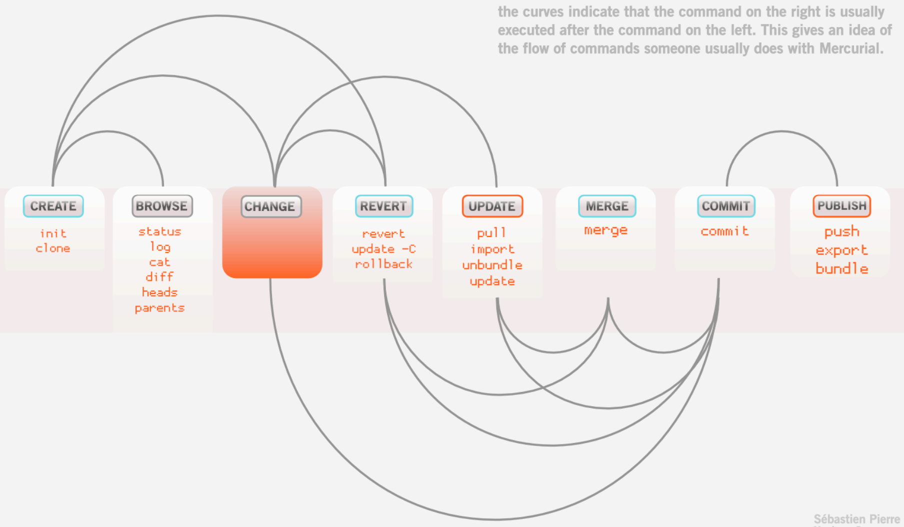
Concepts

REPOSITORY : where Mercurial stores the revisions
WORKING DIR : where you do your changes (work)
CHANGESET : a set of changes commited at once

REV : number that identifies a revision
REVISION : changeset integrated into the repository
PARENT : immediate ancestor of a revision or the WD
BRANCH : follow a given child from a revision
MERGE : a revision with two parents
HEAD : latest revision of a branch
TIP : latest head
TAG : name for a specific revision

PATCH : data to update files from R1 to R2
BUNDLE : patch with permissions and renames support

Commands Sequence



the curves indicate that the command on the right is usually executed after the command on the left. This gives an idea of the flow of commands someone usually does with Mercurial.

Sébastien Pierre
Xprima Corp.

Browse

Files changed in working directory

```
hg status
```

Changes to tracked files

```
hg diff
```

History of changes

```
hg log
```

History of changes for file/directory

```
hg log FILE ... SUBDIR/ ..
```

Who changed what, when in a file ?

```
hg annotate myfile
```

What changed between R2 and R5

```
hg diff -r2 -r5 | diffstat
```

A specific file from a specific rev

```
hg cat -rREV myfile
```

How many branches in the repo

```
hg heads
```

Is the current branch merged from others ?

```
hg parents
```

Revert

Revert to parent rev of the working dir

```
hg revert
```

Content of a file to a previous rev

```
hg revert -rREV FILE
```

(but the working dir keeps the same parents)

Working directory content to a previous rev

```
hg revert -rREV
```

(but this does not change the current rev).

Current revision to a previous rev

```
hg update -C REV
```

(REV will be new parent, local changes are cleaned)

Your last commit / pull / import / unbundle

```
hg rollback
```

⚠ (you cannot undo a rollback !)

Merge

Merge with a given revision

```
hg merge REV
```

(you should have a clean WD)
(REV will be added as the second parent)

View which revisions you are merging

```
hg parents
```

Undo your messed-up merge

```
hg update -C tip
```

(works only if you merged from tip)

Update

Synchronize with main (or other) repository

```
hg pull OTHER_REPO
```

(but this does not change the working directory).

Current revision to latest one

```
hg update REV
```

(only works when on the same branch)

Apply a patch that some sent you

```
hg import PATCHFILE
hg unbundle BUNDLE
```

Publish

Publish your local changes to the "main"

```
hg push MAIN_REPO
```

(but you have to be in sync with "main")

Prepare a patch for other developers

```
hg export REVISIONS... > mypatch.patch
```

Bundle changes to update other repo

```
hg bundle BUNDLEFILE.hg OTHER_REPO
```

(use push when possible)

Mark a version / milestone

```
hg tag v1.0
```

Summary

Create

```
hg init [DEST]
hg clone [OPTION]... SOURCE [DEST]
```

Browse

```
hg status [OPTION]... [FILE]...
hg diff [-a] [-I] [-X] [-r REV1 [-r REV2]] [FILE]...
hg log [OPTION]... [FILE]
hg annotate [-r REV] [-a] [-u] [-d] [-n] [-c] FILE...
hg cat [OPTION]... FILE...
hg heads [-b] [-r <rev>]
hg parents [-b] [REV]
```

Revert

```
hg revert [-I PATTERN] [-X PATTERN] [-r REV] [NAME]...
hg update [-b TAG] [-m] [-C] [-f] [REV]
hg rollback
```

Update / Merge

```
hg pull [-u] [-e FILE] [-r REV]... [--remotecmd FILE] [SOURCE]
hg merge [-b TAG] [-f] [REV]
hg import [-p NUM] [-b BASE] [-f] PATCH..
hg unbundle [-u] FILE
```

Publish

```
hg push [-f] [-e FILE] [-r REV]... [--remotecmd FILE] [DEST]
hg export [-a] [-o OUTFILESPEC] REV...
hg bundle FILE DEST
hg tag [-l] [-m TEXT] [-d DATE] [-u USER] [-r REV] NAME
```