

Hal's PC

```
halj@hal_pc $ mkdir git_hero
halj@hal_pc $ cd git_hero
halj@hal_pc $ git init
```

Local Git repo
(master branch)

(Hal does some work...)

Hal sets up an empty Git repository and starts work.

He commits his first draft

commit

He finishes a feature and commits it to his local Git repo.

commit

Hal adds a reference to his github repository (which he calls **origin**) and then pushes his committed changes up to GitHub

```
halj@hal_pc $ git remote add origin git@github.com:halj/git_hero.git
halj@hal_pc $ git push origin master
```

push origin

commit

```
halj@hal_pc $ git commit -a -m 'added background'
1 files changed, 1 insertions(+), 1 deletions(-)
```

push origin

```
halj@hal_pc $ git push origin master
```

Hal adds a reference to Jen's repo and fetches her changes into a local branch

```
hal@hal_pc $ git remote add jen_repo git://github.com/jen/git_hero.git
hal@hal_pc $ git fetch jen_repo
```

merge

```
hal@hal_pc $ git push origin master
```

push origin

Hal's working directory

Hal's local Git repo (master branch)

Hal's local Git branch containing Jen's work

Hal's GitHub repo.
Hal sees this as **origin**
Jen sees this as **upstream**

Jen's GitHub repo.
Jen sees this as **origin**
Hal sees this as **jen_repo**

Jen's working directory

Jen's local Git repo (master branch)

DRAFT ONLY

work in progress - not for distribution

Copyright 2010 © Dylan Beattie. All rights reserved.

dylan@dylanbeattie.net

twitter @dylanbeattie

Get updates at

<http://www.dylanbeattie.net/cheatsheets/git/>

github.com

/halj/git_hero

/jenh/git_hero

Jen logs in to GitHub and forks Hal's repo to create her own copy...

...then she clones her new GitHub repo to get a local working copy

fork

clone

Jen finishes – and commits – a feature.

She adds a reference to Hal's repo (which she calls **upstream**) and pulls any changes from Hal into her working copy.

pull upstream

Finally, Jen pushes her feature to her own GitHub repo so Hal can review it.

push origin

GitHub pull request from Jen to Hal

fetch jen_repo

Hal merges the changes from Jen's branch into his working copy