

# Git for Teams

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# Git for Teams

- Tagging
- Branching
- Distributed Workflow

# Tagging

A tag is an alias for a commit. Create an annotated tag with `git tag -a`

```
[chris@nijinsky ~/work/vcs/github/tomcat-todo]
$ git tag -a m1 -m "Milestone 1: initial demo to class."
```

This creates an annotated tag (`-a`) called `m1` with a tag message of "Milestone 1: initial demo to class." We can list tags:

```
[chris@nijinsky ~/work/vcs/github/tomcat-todo]
$ git tag
m1
```

And, for annotated tags, we can show the tag's details:

```
[chris@nijinsky ~/work/vcs/github/tomcat-todo]
$ git show m1
tag m1
Tagger: Chris Simpkins <chris.simpkins@gmail.com>
Date:   Wed Jun 12 07:14:17 2013 -0400
```

```
Milestone 1: initial demo to class.
```

# Reverting to a Tag and Sharing Tags

Lets say we add and commit

`src/main/webapp/stylesheets/main.css` and modify `src/main/webapp/list.jsp` to use the stylesheet, but then we want to revert our working copy of the repo to the `m1` tag. We can do this with `git checkout`

```
$ git checkout m1
```

Git gives us a message about being in a 'detached HEAD' state, and the new stylesheet changes are gone from our working copy. We can get back to the current version of the rep by checking out master:

```
$ git checkout master
```

Tags aren't pushed to a remote unless you tell git to push the tags. You can push all of your tags with `git push -tags` or a specific tag with `git push tag m1`. You'll need to do this when you tag your milestones.