

Using git to prepare a paper with others

See

- <https://confluence.atlassian.com/display/BITBUCKET/Bitbucket+101>
- <http://stackoverflow.com/questions/315911/git-for-beginners-the-definitive-practical-guide>

Getting Started (Assuming git is already installed)

```
#### create a directory
mkdir git-repo
cd git repo

#### download a copy of the initial upload
git clone https://YOURUSERNAME@bitbucket.org/SLAC-IEPM/imc14-tulip.git
(e.g. git clone https://rlacotrell@bitbucket.org/SLAC-IEPM/imc14-tulip.git)

cd imc14-tulip/

#### setup account
git config --global user.name "Your Name"
(e.g. git config --global rlacotrell "Les Cottrell")

git config --global user.email you@example.com
(e.g. git config --global user.email cottrell@slac.stanford.edu)

#### Simplify accessing the URL by adding an alias
git remote remove origin
git remote add origin https://YOURUSERNAME@bitbucket.org/SLAC-IEPM/imc14-tulip.git
#Now you'll just use "origin" when you want to use the URL

#### make changes
# vim ....

#### to see the status of the files (modified vs. unmodified)
git status #optional

#### to commit files the -a option allows us to skip the explicit staging of the files. This commits the local
copy
git commit -a -m "I revised section XYZ."

#### to upload the files to the server
git push origin master

#### to view commit history
git log

#miscellaneous info
#-----
#do not add or delete files with simple mv or rm, instead use git mv abstract.tex to anotherfilename.tex

#to add new/untracked files
git add <filename>

#then you'll upload them in the same manner
git commit -m "added file <filename>"
git push -u origin master
```

Using Browser to look at repository

<https://bitbucket.org/SLAC-IEPM/imc14-tulip>

Basic command sequence for updates

```
cd ~cottrell/git-repo/imc14-tulip/text
git pull origin master
ls -l
vim file
git status
git commit -a -m "comment"
git push origin master
```

Creating paper

```
cd ~cottrell/git-repo/imc14-tulip; make clean; make #This creates paper.pdf
```

```
#Then print paper.pdf
```

Examples

Getting Started

```
[cottrell@iepm ~]$ mkdir git-repo
```

```
[cottrell@iepm ~]$ cd git-repo
```

```
[cottrell@iepm ~/git-repo]$ git clone https://rlacotrell@bitbucket.org/SLAC-IEPM/imc14-tulip.git
```

```
Cloning into 'imc14-tulip'...
```

```
Password for 'https://rlacotrell@bitbucket.org/':
```

```
remote: Counting objects: 66, done.
```

```
remote: Compressing objects: 100% (64/64), done.
```

```
remote: Total 66 (delta 14), reused 0 (delta 0)
```

```
Unpacking objects: 100% (66/66), done.
```

```
[cottrell@iepm ~/git-repo]$ cd imc14-tulip/
```

```
[cottrell@iepm imc14-tulip]$ ls
```

```
IEEEtran.bst* IEEEtran.cls* IEEEtranS.bst* Makefile* bib/ figures/ latexdiff-svn.sh* paper.tex* text/
```

```
[cottrell@iepm imc14-tulip]$ ls text
```

```
01-abstract.docx 02-introduction.tex 04-tulip.docx 06-results.tex 10-conclusion.tex
```

```
01-abstract.tex 03-related_work.docx 04-tulip.tex 07-discussion.tex
```

```
02-introduction.docx 03-related_work.tex 05-vtrace.tex 09-future_work.tex
```

```
[cottrell@iepm imc14-tulip]$ git config --global user.name "Cottrell"
```

```
[cottrell@iepm imc14-tulip]$ git config --global user.email cottrell@slac.stanford.edu
```

```
[cottrell@iepm imc14-tulip]$ git remote remove origin
```

```
[cottrell@iepm imc14-tulip]$ git remote add origin https://rlacotrell@bitbucket.org/SLAC-IEPM/imc14-tulip.git
```

Updating

```
207cottrell@pinger:~$cd git-repo
```

```
208cottrell@pinger:~/git-repo$ls
```

```
imc14-tulip/
```

```
209cottrell@pinger:~/git-repo$cd imc14-tulip/
```

```
210cottrell@pinger:~/git-repo/imc14-tulip$ls
```

```
IEEEtran.bst* IEEEtranS.bst* bib/ latexdiff-svn.sh* text/
IEEEtran.cls* Makefile* figures/ paper.tex*
```

```
211cottrell@pinger:~/git-repo/imc14-tulip$cd text
```

```

213cottrell@pinger:~/git-repo/imc14-tulip/text$git pull origin master
Password for 'https://rlacotrell@bitbucket.org':
From https://bitbucket.org/SLAC-IEPM/imc14-tulip
* branch master -> FETCH_HEAD
Updating 45f54d4..3b9f84b
Fast-forward
 bib/imc14-tulip.bib | 23 +
 figures/Tulip_Results.xlsx | Bin 0 -> 217542 bytes
 figures/land_density_all.PNG | Bin 23750 -> 95293 bytes
 figures/land_density_eu.PNG | Bin 19270 -> 82715 bytes
 figures/land_density_median.PNG | Bin 19650 -> 85999 bytes
 figures/land_density_na.PNG | Bin 19460 -> 85598 bytes
 ...nkfurt1_Level3_net2.PNG => tulip-interface.png | Bin
 paper.pdf | Bin 0 -> 1533649 bytes
 paper.tex | 145 +-
 sig-alternate.cls | 1649 ++++++
 text/01-abstract.tex | 10 +
 text/02-introduction.tex | 31 +-
 text/04-tulip.tex | 32 +-
 text/05-vtrace.tex | 29 +-
 text/10-conclusion.tex | 4 +-
 15 files changed, 1845 insertions(+), 78 deletions(-)
 create mode 100755 bib/imc14-tulip.bib
 create mode 100644 figures/Tulip_Results.xlsx
 mode change 100755 => 100644 figures/land_density_all.PNG
 mode change 100755 => 100644 figures/land_density_eu.PNG
 mode change 100755 => 100644 figures/land_density_median.PNG
 mode change 100755 => 100644 figures/land_density_na.PNG
 rename figures/{ae-6-6_ebr2_Frankfurt1_Level3_net2.PNG => tulip-interface.png} (100%)
 create mode 100644 paper.pdf
 create mode 100644 sig-alternate.cls

```

```

215cottrell@pinger:~/git-repo/imc14-tulip/text$ls -l

```

```

total 131
-rw-r--r-- 1 cottrell sf 15148 Mar 22 11:30 01-abstract.docx
-rw-r--r-- 1 cottrell sf 3525 Mar 28 09:07 01-abstract.tex
-rw-r--r-- 1 cottrell sf 17610 Mar 22 11:30 02-introduction.docx
-rw-r--r-- 1 cottrell sf 9597 Mar 28 09:07 02-introduction.tex
-rw-r--r-- 1 cottrell sf 5350 Mar 22 14:43 02-introduction1.tex
-rw-r--r-- 1 cottrell sf 19494 Mar 22 11:30 03-related_work.docx
-rw-r--r-- 1 cottrell sf 7112 Mar 22 11:30 03-related_work.tex
-rw-r--r-- 1 cottrell sf 25106 Mar 22 11:30 04-tulip.docx
-rw-r--r-- 1 cottrell sf 13369 Mar 28 09:07 04-tulip.tex
-rw-r--r-- 1 cottrell sf 6343 Mar 28 09:07 05-vtrace.tex
-rw-r--r-- 1 cottrell sf 790 Mar 22 11:30 06-results.tex
-rw-r--r-- 1 cottrell sf 44 Mar 22 11:30 07-discussion.tex
-rw-r--r-- 1 cottrell sf 68 Mar 22 11:30 09-future_work.tex
-rw-r--r-- 1 cottrell sf 1810 Mar 28 09:07 10-conclusion.tex

```

```

[cottrell@iepm imc14-tulip]$ vim text/02-introduction.tex

```

```
[cottrell@iepm imc14-tulip]$ git status
# On branch master
# Changes not staged for commit:
#   (use "git add <file>..." to update what will be committed)
#   (use "git checkout -- <file>..." to discard changes in working directory)
#
# modified:   text/02-introduction.tex
#
no changes added to commit (use "git add" and/or "git commit -a")

[cottrell@iepm imc14-tulip]$ git commit -a -m "I revised the Introduction to add extra features we have added
(accuracy), fix some grammar etc."
[master 2a144a6] I revised the Introduction to add extra features we have added (accuracy), fix some grammar etc.
 1 file changed, 5 insertions(+), 5 deletions(-)

[cottrell@iepm imc14-tulip]$ git push origin master

Password for 'https://rlacotrell@bitbucket.org':
Counting objects: 7, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 873 bytes, done.
Total 4 (delta 3), reused 0 (delta 0)
To https://rlacotrell@bitbucket.org/SLAC-IEPM/imc14-tulip.git
 203cf3a..2a144a6  master -> master

[cottrell@iepm text]$ git pull origin master
Password for 'https://rlacotrell@bitbucket.org':
From https://bitbucket.org/SLAC-IEPM/imc14-tulip
 * branch      master    -> FETCH_HEAD
Already up-to-date.
```