# Getting Going with Git

## *Single Repository on Single Machine (...Just Version Control)*

s0897465@rodders:/afs/inf.ed.ac.uk/user/s08/s0897465$**mkdir myproject**
s0897465@rodders:/afs/inf.ed.ac.uk/user/s08/s0897465$**cd myproject/**
s0897465@rodders:/afs/inf.ed.ac.uk/user/s08/s0897465/myproject$**git init**
Initialized empty Git repository in /afs/inf.ed.ac.uk/user/s08/s0897465/myproject/.git/

s0897465@rodders:/afs/inf.ed.ac.uk/user/s08/s0897465/myproject$**gvim test1.txt**
s0897465@rodders:/afs/inf.ed.ac.uk/user/s08/s0897465/myproject$**cat test1.txt**
Project Plan 2011
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 * Tidy Desk
 * Sort out pdf collection
 * Start using version control

s0897465@rodders:/afs/inf.ed.ac.uk/user/s08/s0897465/myproject$**git status**
# On branch master
#
# Initial commit
#
# Untracked files:
#   (use "git add <file>..." to include in what will be committed)
#
#       test1.txt
nothing added to commit but untracked files present (use "git add" to track)

s0897465@rodders:/afs/inf.ed.ac.uk/user/s08/s0897465/myproject$**git add test1.txt**
s0897465@rodders:/afs/inf.ed.ac.uk/user/s08/s0897465/myproject$**git status**
# On branch master
#
# Initial commit
#
# Changes to be committed:
#   (use "git rm --cached <file>..." to unstage)
#
#       new file:   test1.txt
#

s0897465@rodders:/afs/inf.ed.ac.uk/user/s08/s0897465/myproject$**git commit -m"First Draft of Project Plan"**
[master (root-commit) dda6248] Initial Commit - Project Plan
 1 files changed, 7 insertions(+), 0 deletions(-)
 create mode 100644 test1.txt

s0897465@rodders:/afs/inf.ed.ac.uk/user/s08/s0897465/myproject$**git log**

commit dda6248c381793e9266c07f662d8f137eba22e60
Author: Michael Hull <s0897465@rodders.inf.ed.ac.uk>
Date:   Wed Jan 19 09:39:31 2011 +0000

    Initial Commit - Project Plan
s0897465@rodders:/afs/inf.ed.ac.uk/user/s08/s0897465/myproject$**gvim test1.txt**
s0897465@rodders:/afs/inf.ed.ac.uk/user/s08/s0897465/myproject$**cat test1.txt**
Project Plan 2011
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 * Tidy Desk
 * Sort out pdf collection
 * Drink more water
 * Start using version control


s0897465@rodders:/afs/inf.ed.ac.uk/user/s08/s0897465/myproject$**git status**
# On branch master
# Changed but not updated:
#   (use "git add <file>..." to update what will be committed)
#   (use "git checkout -- <file>..." to discard changes in working directory)
#
#       modified:   test1.txt
#
no changes added to commit (use "git add" and/or "git commit -a")

s0897465@rodders:/afs/inf.ed.ac.uk/user/s08/s0897465/myproject$**git commit -a -m "Added a new idea"**
[master d079631] Added a new idea
 1 files changed, 1 insertions(+), 0 deletions(-)

s0897465@rodders:/afs/inf.ed.ac.uk/user/s08/s0897465/myproject$**git log**
commit d07963109a75d680e1a6f70e4a22a420c4cdafd7
Author: Michael Hull <s0897465@rodders.inf.ed.ac.uk>
Date:   Wed Jan 19 09:42:47 2011 +0000

    Added a new idea

commit dda6248c381793e9266c07f662d8f137eba22e60
Author: Michael Hull <s0897465@rodders.inf.ed.ac.uk>
Date:   Wed Jan 19 09:39:31 2011 +0000

    Initial Commit - Project Plan
s0897465@rodders:/afs/inf.ed.ac.uk/user/s08/s0897465/myproject$


You can now try:
   • git checkout
   • git branch and git merge
   • git revert (make more commits first)

## *Multiple Repositories:*

## Create a 'bare' repository on the 'server'

s0897465@rodders:/afs/inf.ed.ac.uk/user/s08/s0897465$**mkdir repos**

s0897465@rodders:/afs/inf.ed.ac.uk/user/s08/s0897465$**cd repos**

s0897465@rodders:/afs/inf.ed.ac.uk/user/s08/s0897465/repos$**mkdir myproj1**

s0897465@rodders:/afs/inf.ed.ac.uk/user/s08/s0897465/repos$**cd myproj1/**

s0897465@rodders:/afs/inf.ed.ac.uk/user/s08/s0897465/repos/myproj1$**git init --bare**

Initialized empty Git repository in /afs/inf.ed.ac.uk/user/s08/s0897465/repos/myproj1/

## Clone the bare repository so you have a 'working' repository

s0897465@rodders:/afs/inf.ed.ac.uk/user/s08/s0897465/working$g**it clone ssh://s0897465@jupiter1///afs/inf.ed.ac.uk/user/s08/s0897465/repos/myproj1**

Initialized empty Git repository in /afs/inf.ed.ac.uk/user/s08/s0897465/working/myproj1/.git/

warning: You appear to have cloned an empty repository.

Make changes, commit, then try:

- git pull origin master
- git push origin master
- git branch
- git merge