Exercise – Setting up git

Objective

The objective of this exercise is to install git on your machine, create a bitbucket account and create a new repository for use over the week for your notes.

Overview

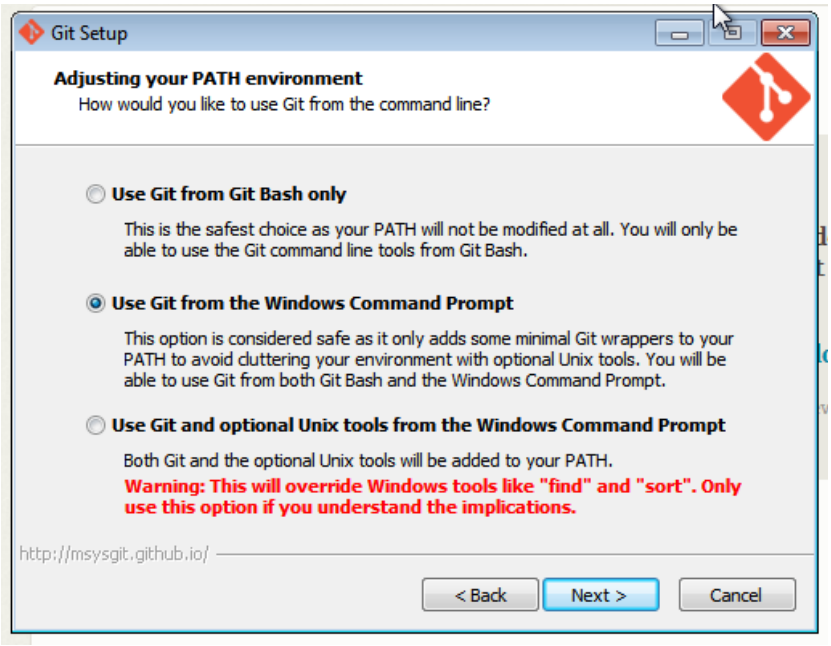
Step 1 – Install git

We're going to be using git a lot over this week for the exercises. It is also good to keep your documentation in something like git, or a wiki-type solution like confluence. For this exercise we are going to install git and use that for our documentation. You can then keep these files to remind you how things work and add it to any other documentation system when back at work.

Download git from the website: www.git-scm.com

We want a copy of git working on windows so our 'host' machine over the week is able to commit files.

When installing git use all but one of the default options. When you reach this screen:



Select the middle option – use git from the windows command prompt. Everything else can be left as the default option.

Step 2 – Make a bitbucket account

Go to: http://www.bitbucket.org/ and create yourself an account.

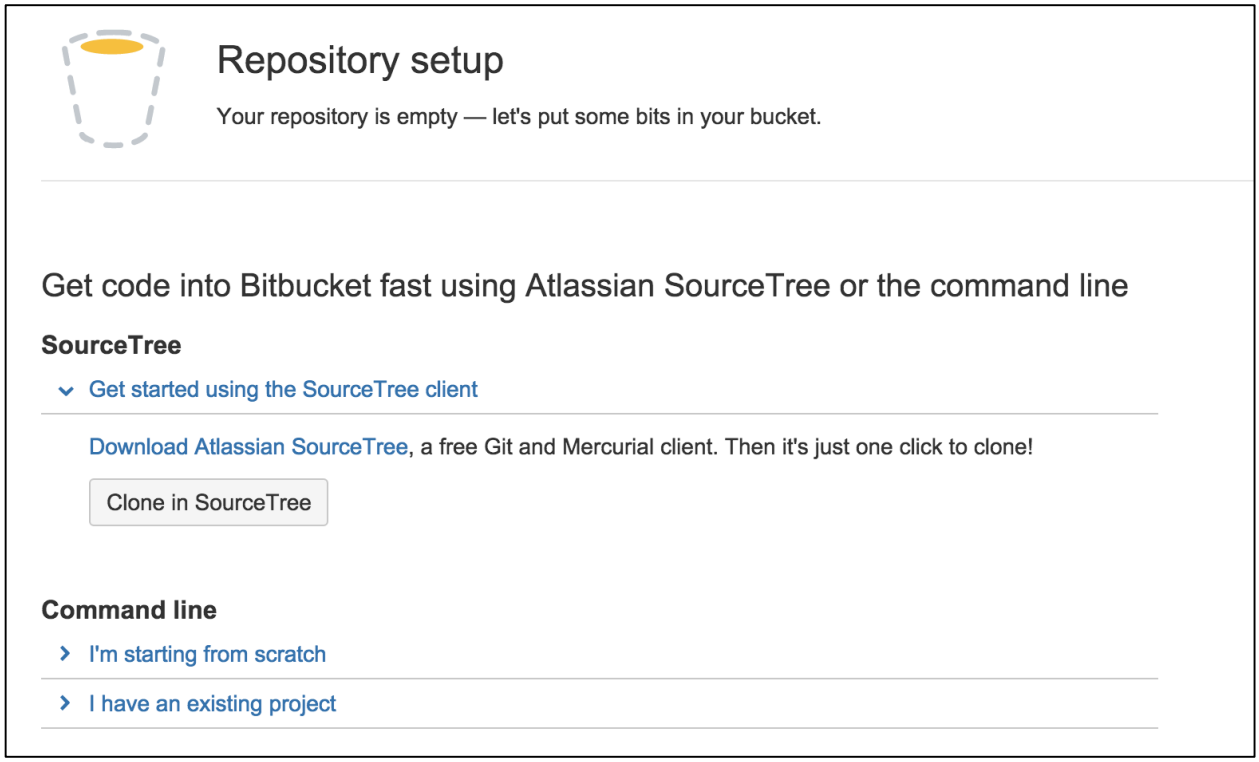
This is where we will keep the notes we make over the week – a diary of sorts. The idea is to write down what you did after each exercise to make everything work, the problems you faced, and how you solved them.

Each person should create a repository for themselves as it helps to write down what you have done as you go along, rather than just reading someone else's account.

Step 3 – Create a new repository on bitbucket

Click on Repositories then Create Repository. Call your new repository Documentation. Put a note of what the purpose of your repository is. We want it to be a git repository (bitbucket also supports mercurial) and leave the language blank.

When you have created your repository you should see a screen like this:



Step 4 – Clone the repository

On the bitbucket screen select “I’m starting from scratch” from the command line section

This will reveal a set of instructions to use when cloning your repository**. We only want to do the first two of these lines** to clone the repository and go into the directory.

To get to the command line in windows press the start menu button and in the box type “cmd” then press return.

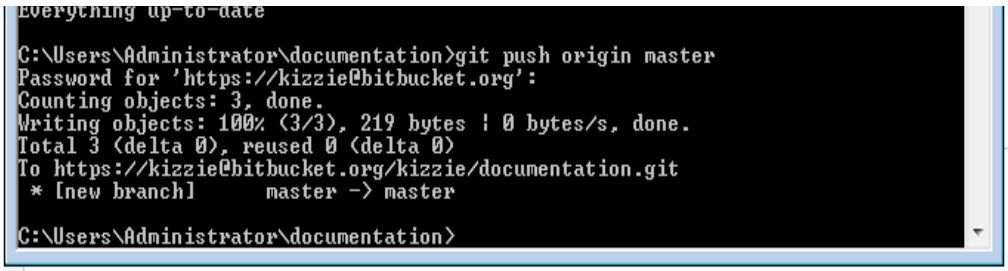
Before you add the contributors file we need to tell git who we are. To do this type the following:

```
$ git config --global user.email “you@email.com”
$ git config --global user.name “Your name”
```

Now type in the commands given to you by bitbucket to create your new project directory, initialise the repo and add the remote link. (just the top box)

NOTE! On windows we need to use the double quote symbol, not the single quote (-m “blah” rather than –m ‘blah’).

Add the contributors file and commit then push. If everything works you should be able to see your first commit on the bitbucket website and your command line should say something like this:



Step 5 – Add some files

Create a new text file using notepad (or any editor of your choice). Write down the steps you took to install git and create a new repository. Use your own words, as you will remember it better that way.

Save the file into your git repository directory.

Go back to the command line terminal. To add a file to a repository we use the following command:

```
$ git add filename
```

To see the current status of your git repository you can use

```
$ git status
```

To add more than one file at once list all their names, or if you want to just add everything use the . option

```
$ git add .
```

Step 6 – commit and push

Finally, we need to commit the changes we have made to the repository and push it to the server. In your git directory on the command line type

```
$ git commit –m "add a message here to say what the commit is about"
```

This saves the changes locally. To push it to the server type

```
$ git push origin master
```

Which will push from the current machine (short name is origin) to the master branch on the server.