Guide to Git and GitHub

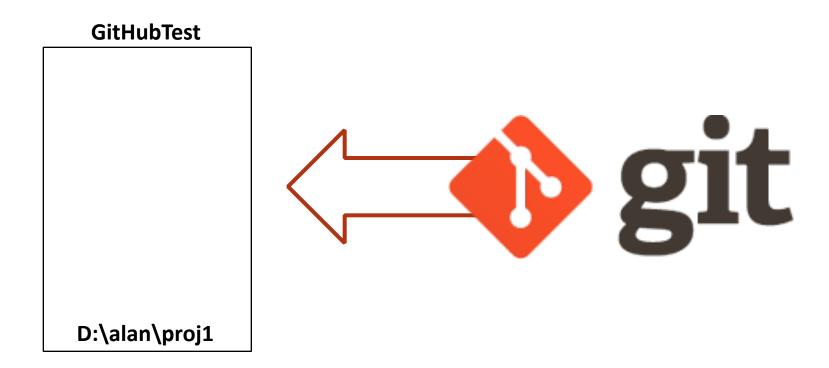
by
Alan Labouseur
based on
http://git-scm.com/book/en/Getting-Started-Git-Basics

Designate a working directory on your local disk for Git to monitor.

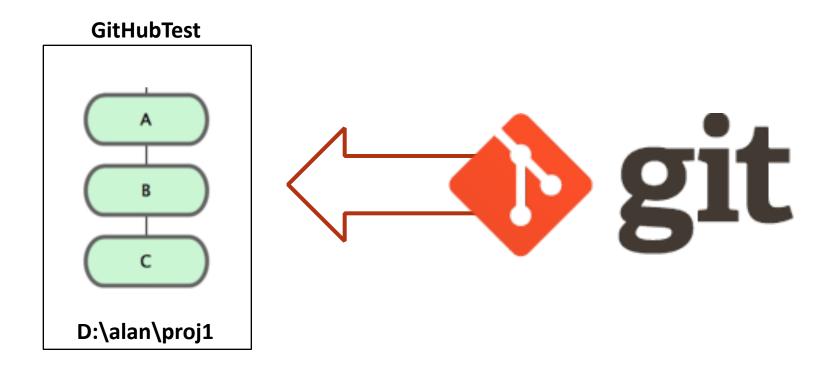
We'll use **D:\alan\proj1** in this example.

This is sometimes called *creating a repository*.

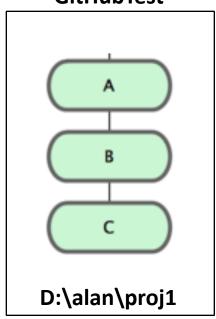
Give the repository a name (*GitHubTest* in this example.)

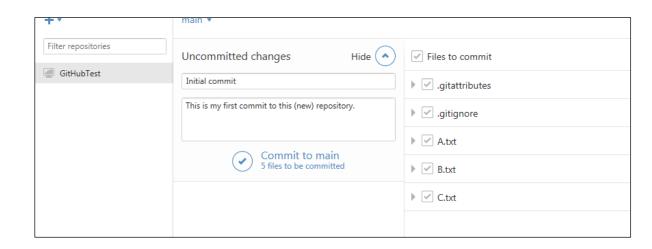


Create your project files (A, B, and C in this example) in this working directory.

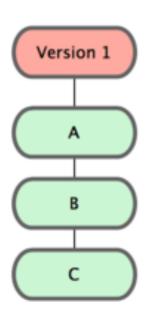


Add, stage, and commit the project files. This is sometimes called a check-in. Be sure to write interesting, helpful, and complete commit comments.

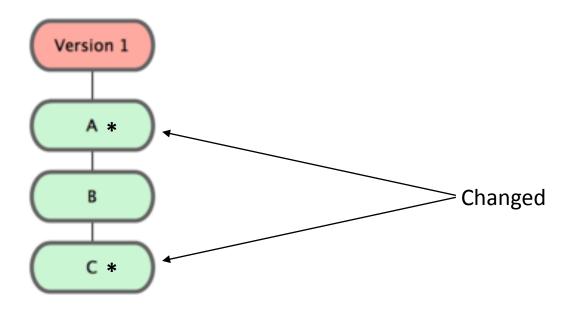




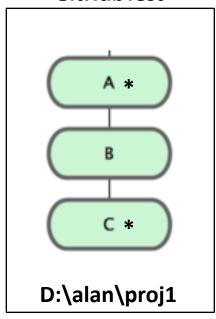
This is "Version 1" of our project, consisting of three (3) files: A, B, and C.

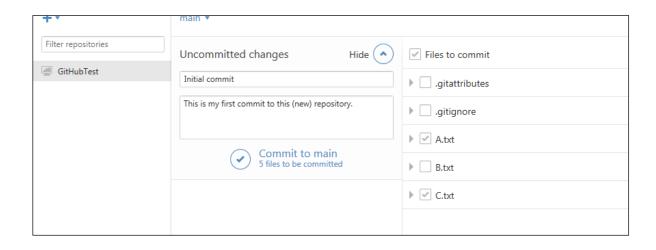


As we continue working on our project, we change some files. Let's say we change files **A** and **C**.

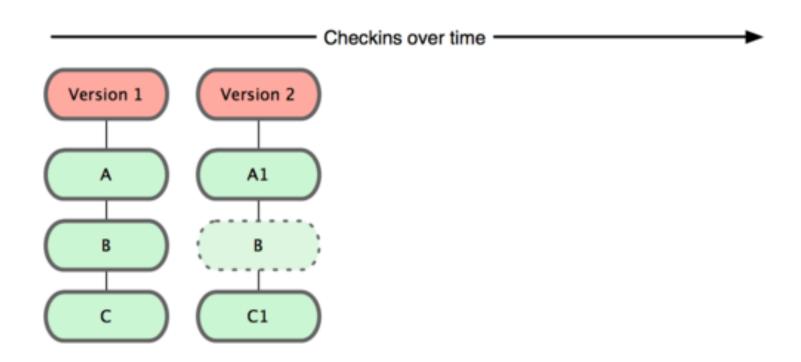


Check-in again. *Stage* and *commit* the changed project files. Be sure to continue to write interesting, helpful, and complete commit comments.

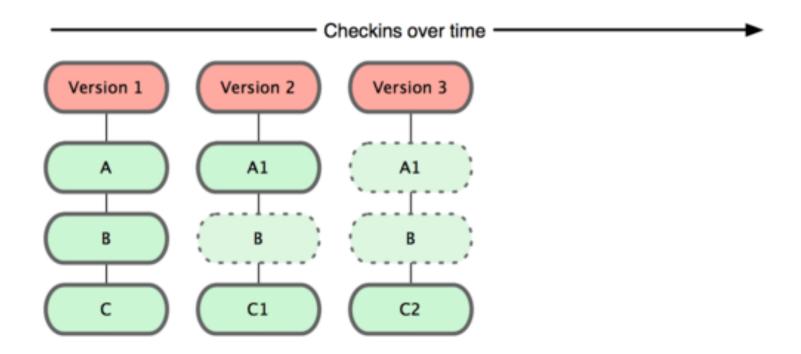




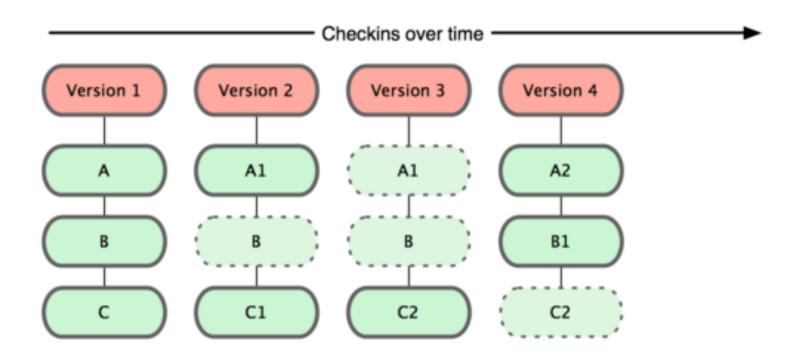
This is "Version 2" of our project, still consisting of three (3) files — A, B, and C — but with new versions of only files A and C (because we did not change B).



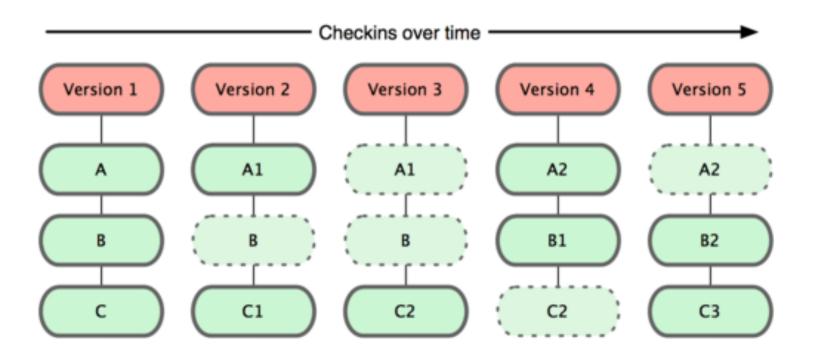
"Version 3" results from our changing file **C** and committing.



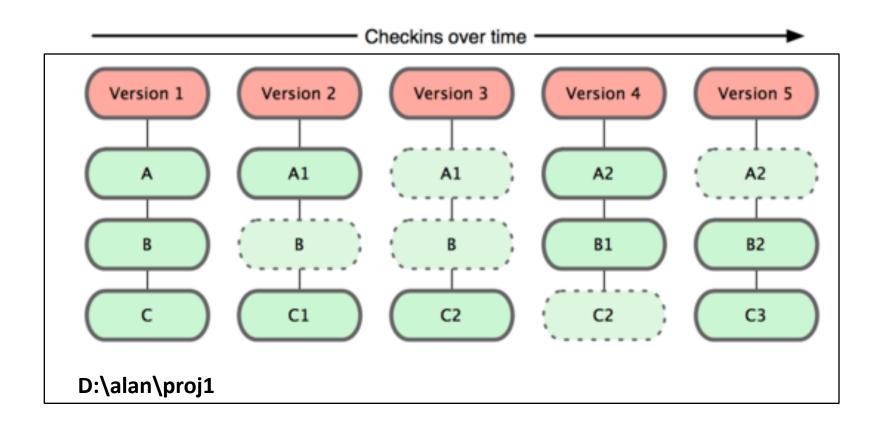
"Version 4" results from our changing files **A** and **B** and committing.



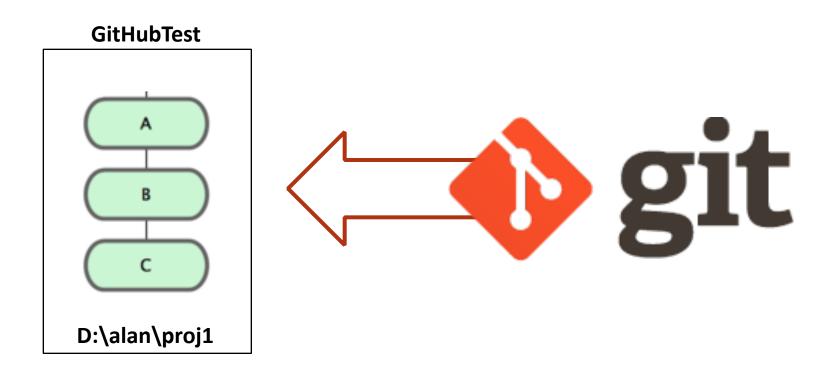
"Version 5" results from our changing files **B** and **C** and committing. You can see the pattern; you get the idea.



All of this is happening thanks to Git watching your **local** working directory.



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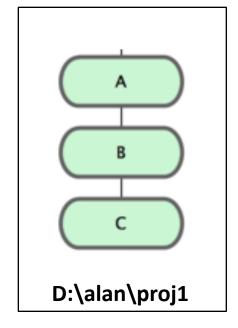


That's where GitHub comes in.





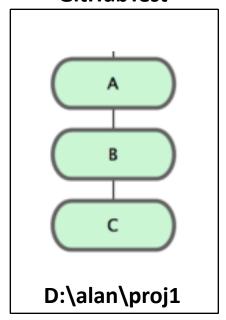
GitHubTest





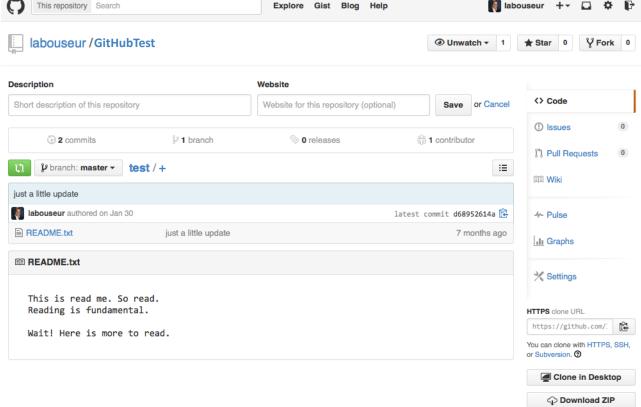
We *publish* from our **local** Git repository to our **global** (online, in the cloud, Internet-based)
GitHub repository so that our code is accessible from the web.







We *publish* from our **local** Git repository to our **global** (online, in the cloud, Internet-based) GitHub repository, which is accessible from the web.







Overview and Workflow





