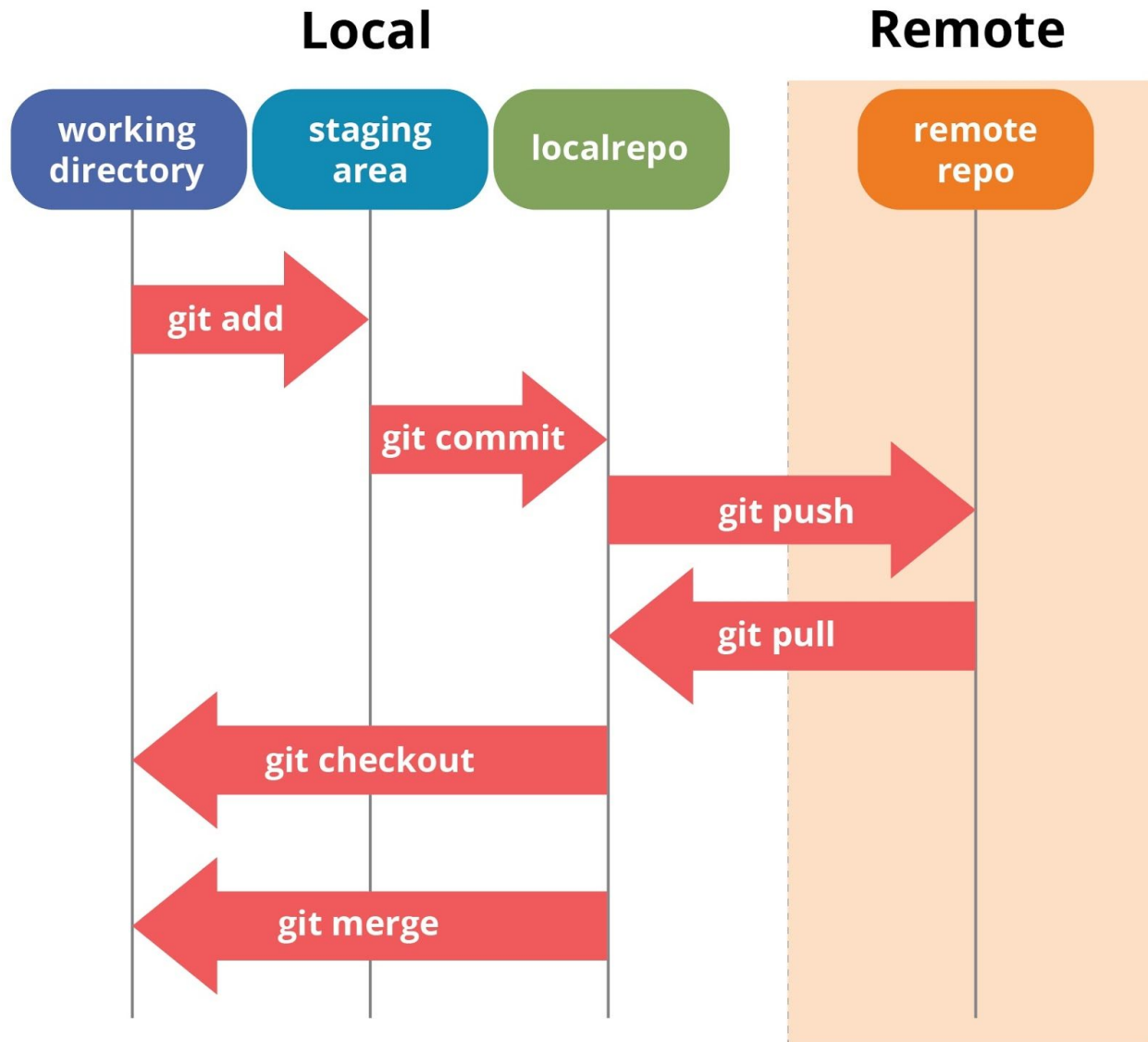


Web Development

Lecture 0: Beginner Git Commands



To get started-

- Install git from <https://git-scm.com/downloads>
- Go to the folder you want to start using git
- Right click and select “*Git Bash Here*”

A git bash will appear and you can start applying git or other CLI commands

1. `git init`

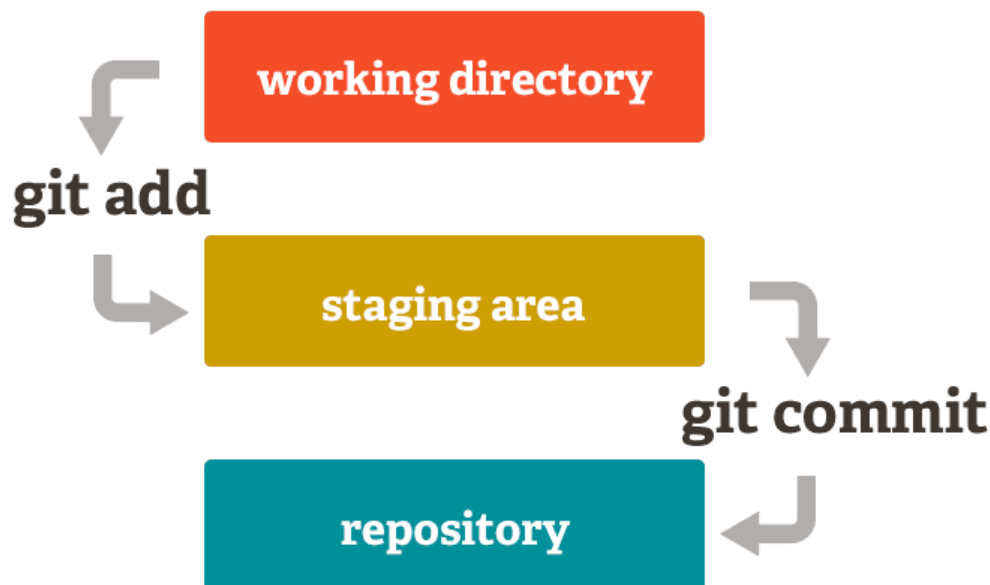
Initialize a new empty local repository in a folder. Behind the curtain a `.git` folder will be created which will keep record of the all the version\\$/commits and changes.

2. `git add -A` [adds all files to staging area]
`git add new.html` [adds new.html to staging area]

Stage any changes made. The staging area is best described as a preview of your next commit. Meaning, when you do a git commit, git will take the changes that are in the staging area and make the new commit out of those changes. One practical use of the staging area is that it allows you to fine-tune your commits. You can add and remove changes from the staging area until you are satisfied with how your next commit will look like, at which point you can do git commit.

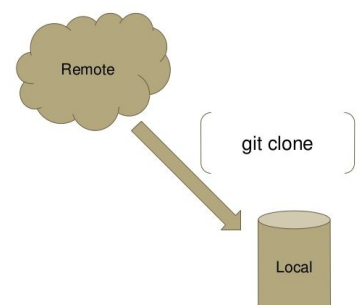
3. `Git commit -m "Any comment/ message to describe the commit"`

Creates a version of your project. Can be used to “teleport” to this version from a future version if needed.



4. `git clone <repository-url>`
Eg. `git clone http://github.com/omuker-repo.git`

Get a clone of any remote repository from the internet .

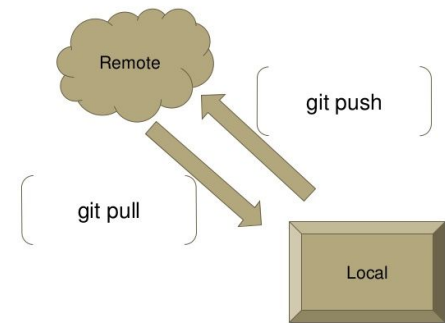


5. `git remote add <name-of-repo> <repo-url>`
Eg. `git remote add ABC github.com/omuker-repo.git`

Links an remote repo with a local repo.

6. `git push <name-of-repo> master`
Eg. `git push ABC master`

Pushes commits in local repository to remote repository.



7. `git log`

Logs all commits in the repo. Includes time, changes made and contributor with his/her comment on that commit.

```
commit 40bed479db5fcb78d2c17989989926406128d05
Author: John Stevenson <john@rocket.co.uk>
Date: Sun Jan 20 16:58:13 2013 +0000
    Adding Gemfile to load gimli when pushed to heroku

commit fc4f5fa32b92fbbec971c68cfe297c530c248f5f
Author: John Stevenson <john@rocket.co.uk>
Date: Sun Jan 20 14:30:07 2013 +0000
    updated project description with URLs to projects used in the creation of this project

commit 71daFca92d7dF50253a4c1c65688141de5480f37
Author: John Stevenson <john@rocket.co.uk>
Date: Sun Jan 20 14:17:16 2013 +0000
    pdf formatting fixed for network ssh section

commit 4f092263004820f88cc7a7bd6da32d7c1b9d4d6e
Author: John Stevenson <john@rocket.co.uk>
Date: Sun Jan 20 14:13:24 2013 +0000
    Modified formatting around Network ssh section, rendering issue in pdf doc

commit 47418ccb503ba25885b959df2445d4b599f5e59d
Author: John Stevenson <john@rocket.co.uk>
Date: Sun Jan 20 14:06:26 2013 +0000
    Changed PDF link to index.pdf for gimli generated doc

commit 18ef75cf3758680e104e8204e6158915572a9996
Author: John Stevenson <john@rocket.co.uk>
:
```

Some basic Command line commands

1. `ls`
[List all files and folders in directory]

2. `cd folder`
[Change current directory to 'folder' directory. To go back to the previous folder type `cd ..`]

- CLI - Command Line Interface
 - Bash - Bash is a command language interpreter. It is widely available on various operating systems and is a default command interpreter on most GNU/Linux systems. The name is an acronym for the ‘**B**ourne-**A**gain **S**hell’.
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More Resources

- <https://product.hubspot.com/blog/git-and-github-tutorial-for-beginners>
- <https://git-scm.com/doc>
- Youtube

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