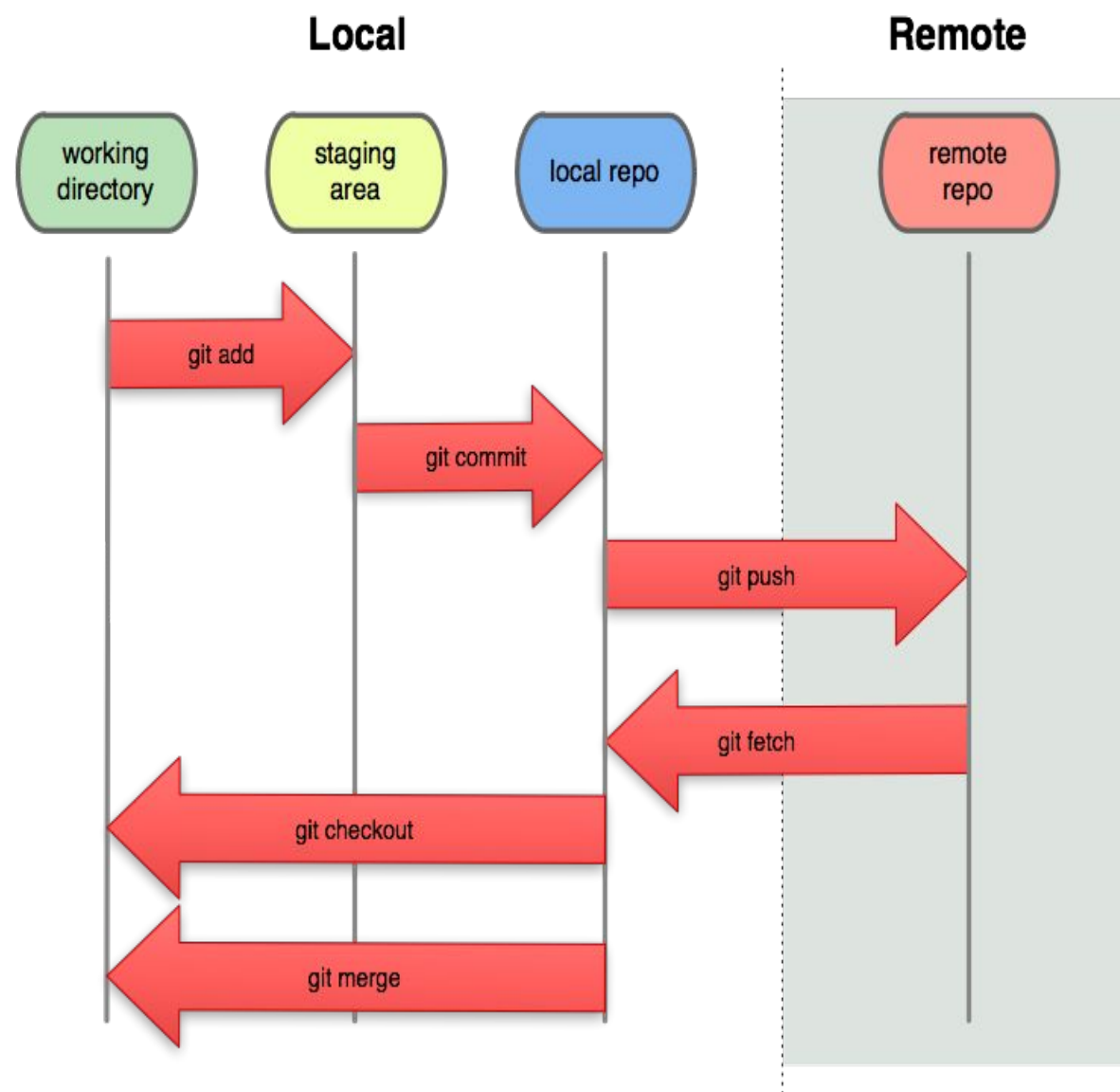


## What is Git?

GIT is a free and open source distributed version control system. This allows teams to work on a project without being connected to the same network. Git's distributed nature supports rapid branching and merging which allows for an endless number of workflows that can be executed easily.



## Advantages

- Non linear development
- Multiple Backups
- Can separate new features into different branches that get tested without affecting the master branch until they are ready and can be merged in.
- Disposable Experimentation- can make new code or change existing ones and if the results are unwanted, switch to a previous version.
- Git is faster than centralized systems that perform operation by communicating with servers somewhere remote, by executing operations locally.

## Facts

- Designed and developed for Linux kernel development in 2005
- Original authors: Linus Torvalds
- Written in: Perl, Tcl, Python, C++
- Works with companion application called GitHub to add social features.



Figure 2 above is an example of Git branching and merging of different versions of the repository.

## Works Cited

- "About." - *Git*. N.p., n.d. Web. 30 Nov. 2015.
- "What Are Some Interesting Facts on GitHub?" - *Quora*. N.p., n.d. Web. 30 Nov. 2015.

Figure 1 above explains the git main functions workflow