git Branches

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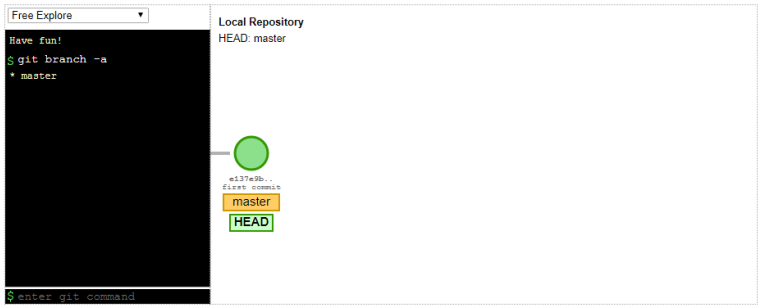
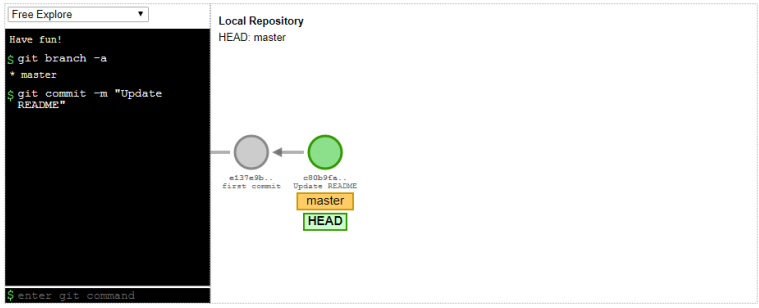
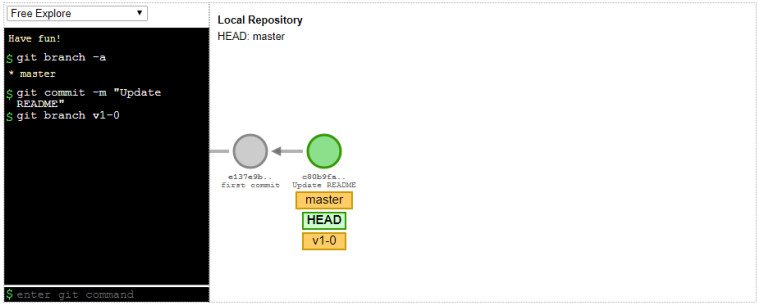
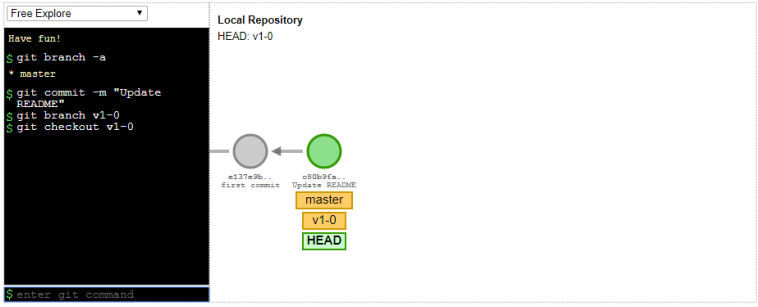
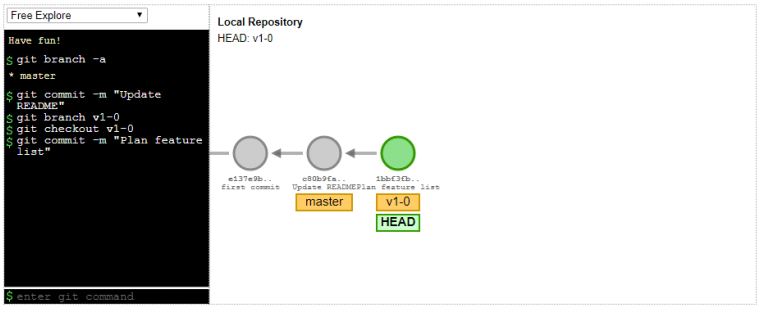
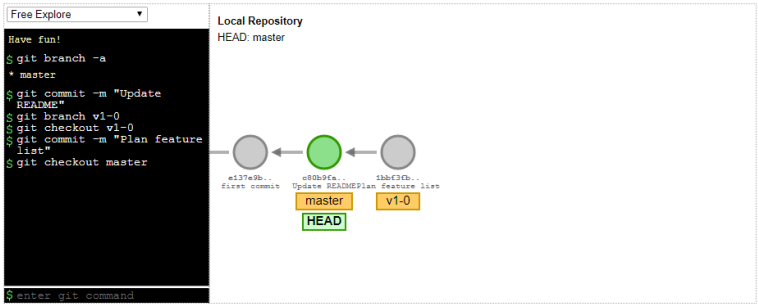
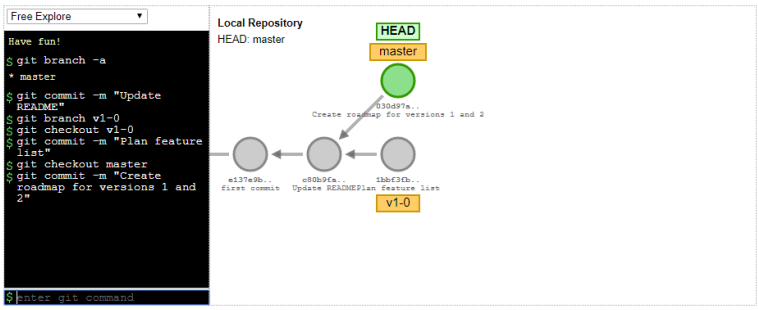
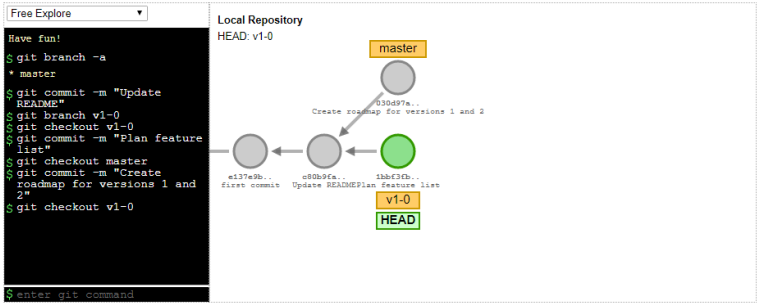
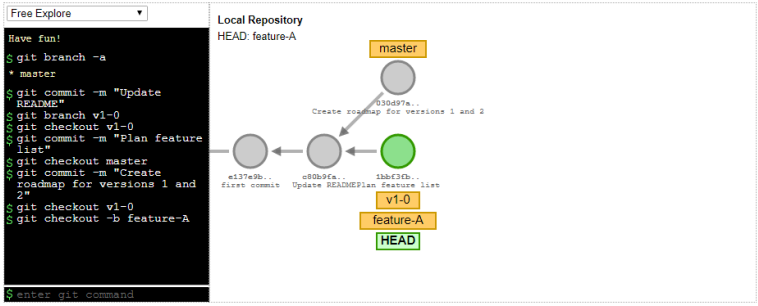
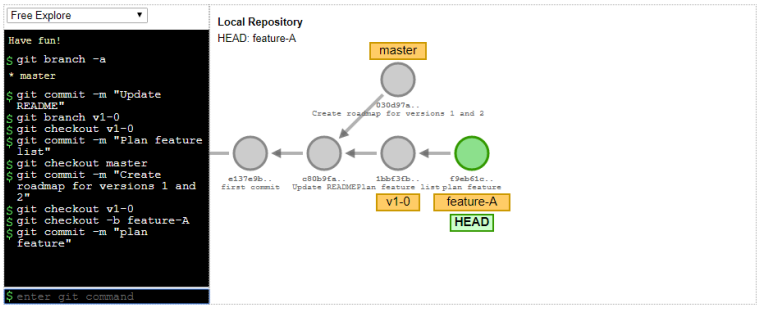
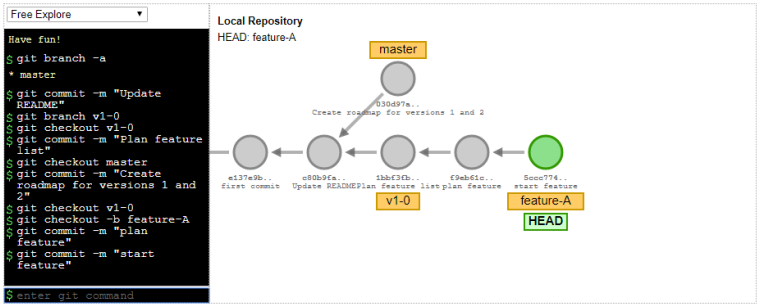
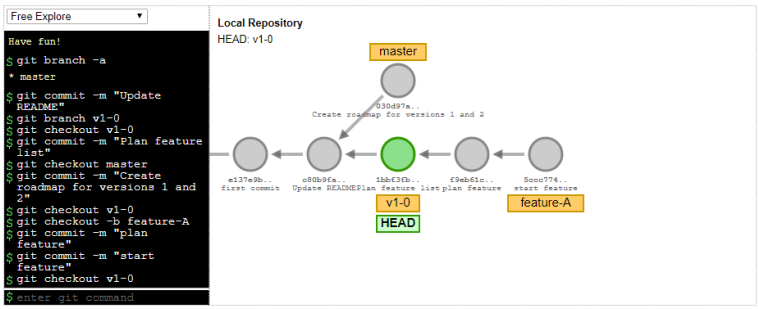
Tutorial

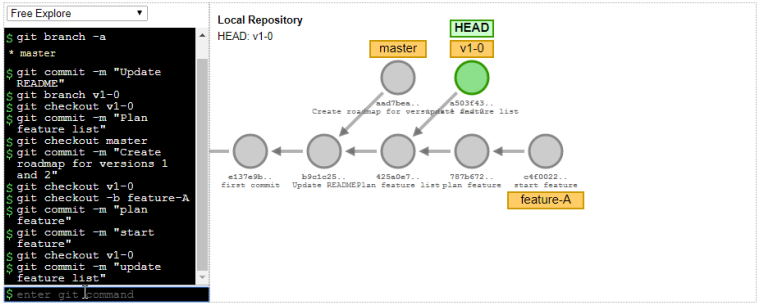
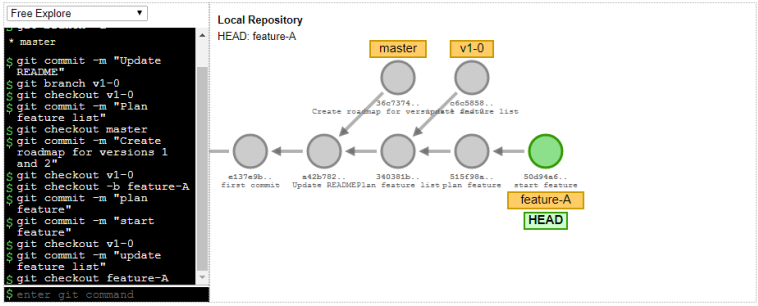
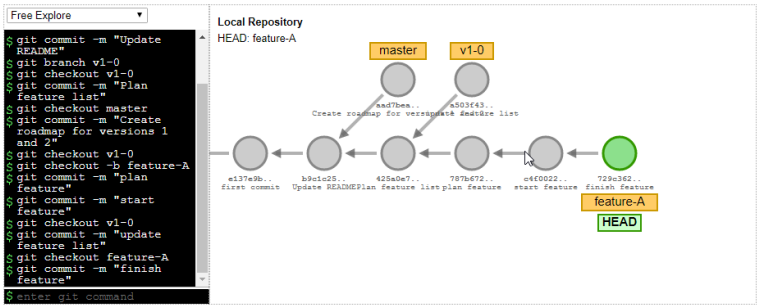
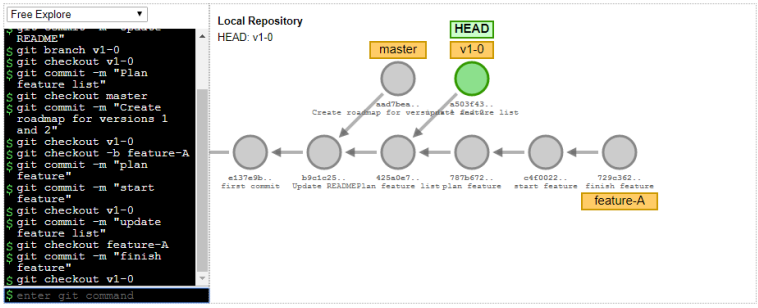
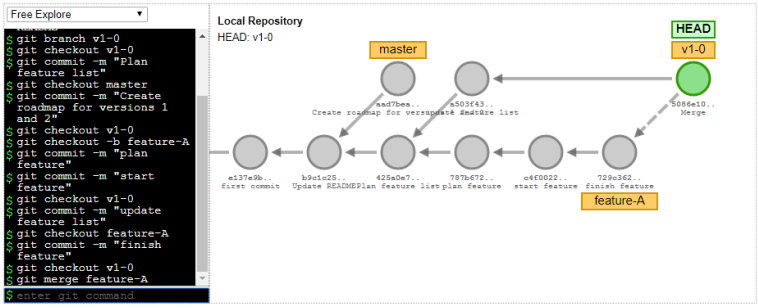
A good way to learn about branching and using the **git flow** technique is to run through the visual tool at git-school.github.io/visualizing-git. In this walkthrough, we're going to use the following git commands to see what is happening with the git repository.

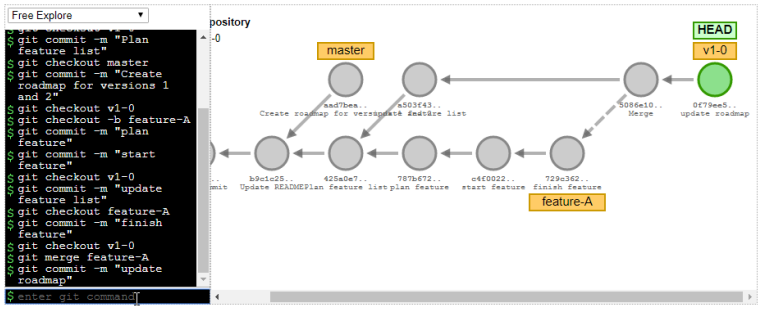
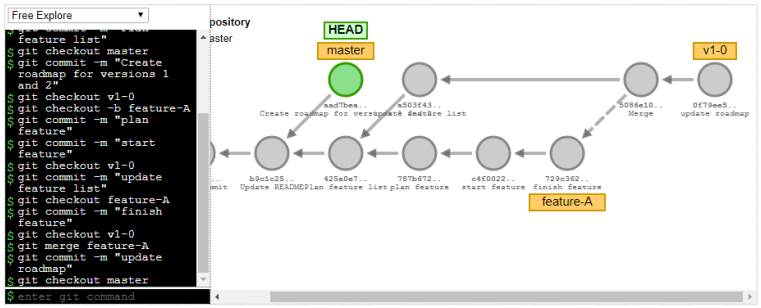
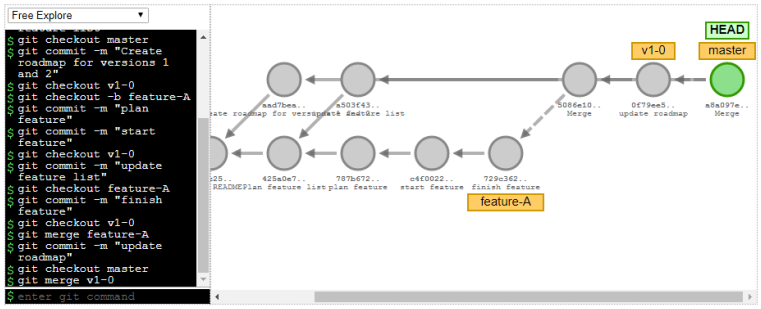
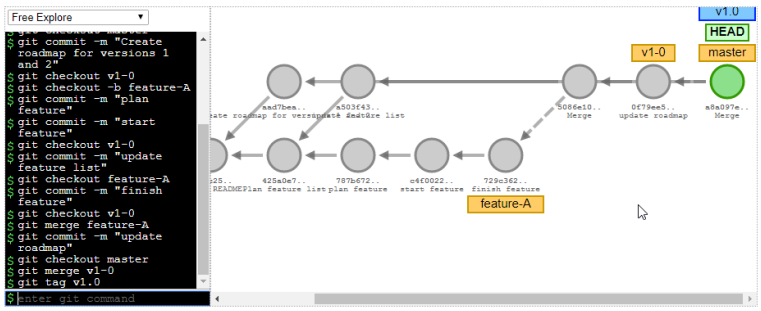
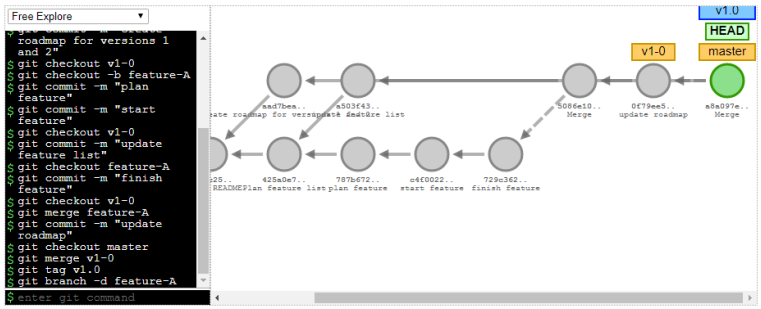
- `git commit -m 'commit message'` - Save your changes to your git history.
- `git branch -a` - List **a**ll the branches in your repository.
- `git branch -d new-branch` - Delete the branch called "new-branch".
- `git branch new-branch` - Create a new branch from the current *head* called "new-branch".
- `git checkout -b new-branch` - Create a new branch from the current *head* called "new-branch" and switch to that branch.
- `git checkout new-branch` - Switch from your current branch to the branch named "new-branch".
- `git merge new-branch` - Merge the contents of "new-branch" to the branch you are currently on.

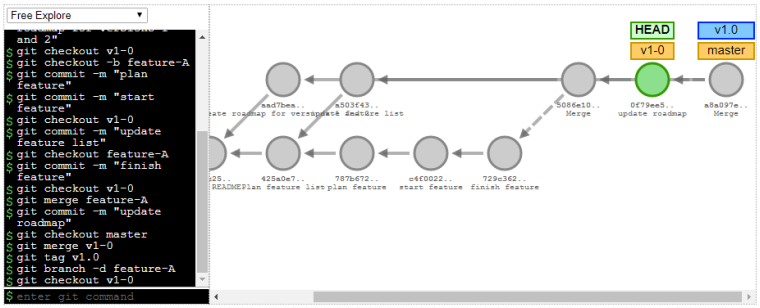
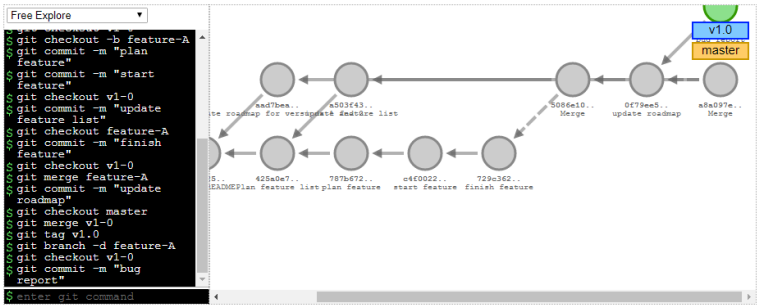
Command	Result
List the current branches `git branch -a`	
Update the README file `git commit -m "Update README"`	

Command	Result
Create a branch called **v1-0** `git branch v1-0`	
Switch to branch **v1-0** `git checkout v1-0`	
Commit on the **v1-0** branch `git commit -m "Plan feature list"`	
Switch back to the master branch `git checkout master`	
Make a commit on the master branch `git commit -m "Create roadmap for versions 1 and 2"`	

Command	Result
Switch back to the **v1-0** branch `git checkout v1-0`	
Create a feature branch called **feature-A** based on the current branch and switch to this new branch `git checkout -b feature-A`	
Make a commit `git commit -m "plan feature"`	
Make another commit `git commit -m "start feature"`	
Switch to the **v1-0** branch `git checkout v1-0`	

Command	Result
Make a commit `git commit -m "update feature list"`	
Switch to the **feature-A** branch `git checkout feature-A`	
Make a final commit on this branch `git commit -m "finish feature"`	
Switch to the **v1-0** branch `git checkout v1-0`	
Merge in the changes from the **feature-A** branch into the **v1-0** branch `git merge feature-A`	

Command	Result
Make a commit `git commit -m "update roadmap"`	
Swith to the **master** branch `git checkout master`	
Merge the **v1-0** changes into the **master** branch `git merge v1-0`	
Add a tag to the current commit `git tag v1.0`	
Delete the feature branch `git branch -d feature-A`	

Command	Result
Switch to the **v1-0** branch `git checkout v1-0`	
Add a commit about a bug report `git commit -m "bug report"`	
List the branches `git branch -a`