Git: Branches and Pull Requests

Zack Miller

Useful Links:

- Git Hub:
 - <u>https://guides.github.com/introduction/git-handbook/</u>
- Bitbucket:
 - <u>https://www.atlassian.com/git/tutorials/learn-git-</u> with-bitbucket-cloud
 - <u>https://www.atlassian.com/git/tutorials/learn-about-</u> <u>code-review-in-bitbucket-cloud</u>
- Git Docs:
 - https://git-scm.com/doc

What are we trying to do?

- We have a new Crazy Idea!
- If it doesn't pan out, go back to original version.
 - Don't affect master.
- Branches are cheap, easy to create, destroy and merge.

What does this look like?



>git branch new_branch Master new_branch

Commit a change to new_branch



Commit on Master



A few Commits later: Ready to Merge



After Pull Request



This can get a bit messy!



This can get a bit messy!



Suggestion: Use a Git Client

- Tower(Not Free):
 - <u>https://www.git-tower.com/mac</u>
- Sublime Merge
 - https://www.sublimemerge.com
- SourceTree:
 - https://www.sourcetreeapp.com/
- GitKraken:
 - <u>https://www.gitkraken.com/git-client</u>
- IDEs:
 - IntelliJ / Pycharm
 - Eclipse

Gitflow Doc

 <u>https://www.atlassian.com/git/tutorials/comp</u> <u>aring-workflows/gitflow-workflow</u>

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<> Source	Zack Test Repository to make test git things.						
¢ Commits	Ly master → Filter files						
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Pipelines	Name	Size Last commit	Message				
E Downloads	README.md	61 B 2018-03-14	Initial commit				
Boards	🗗 master.txt	12 B 2018-07-03	master.txt created online with Bitbucket				
🗘 Settings	🗗 simpleMarkdown.md	34 B 2019-04-18	simpleMarkdown.md created online with Bitbucket				
	E testDoc.txt	45 B 2018-03-14	testDoc.txt edited online with Bitbucket				
	E testDoc2.txt	7 B 2018-09-11	testDoc2.txt edited online with Bitbucket				

README.md

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	Zack Test Repository to make test git things.

Click "Create Branch"

zackTestRepo	Zack Miller / zackTestRepo Branches					Create branch
<>> Source	accel boundary					
¢ Commits	Search branches	Active branches V				
🐉 Branches	Branch 🗸		Behind v Ahead v	Updated ~	Pull request	Builds
່ Pull requests	master MAIN DEVELOPMENT			11 minutes ago		
Pipelines	testBranch2		0 3	10 minutes ago	#1 OPEN	
E Downloads	testBranch3		2 2	2018-09-11	Create	
BoardsSettings	testBranch1		6 1	2018-03-14	Create	

Create branch			
From branch			
master			~
Branch name			
	រូ master		
		Create	Cancel



Update with changes

- >git pull
- >git checkout <zack_test_branch1>
- Make some changes/add files
- >git add <file1.txt>
- >git commit –m "commit message"
- >git push origin <zack_test_branch1>
- Check bitbucket to see if commit is on the branch.





Create	e a pull r	equest						
(*)	zrm22 / za Created 2018	ckTestRepo 3-03-14, updated 2 minu	utes ago	•		zrm22/zacktestrepo		*
V	zack_test	_branch1	*		V	master		*
	Title*	commiting file1						
D	escription	Aa∽ B I	··· := :=	02	. @ © 8		Feedback	?
	Reviewers	Start typing to sear	ch for a user					
Clo	se branch	Close zack_test_	branch1 after t	the pul	l request is	merged		
							Create pul	l request





Merge pull request

Source	zack_test_branch1					
Destination	₽ master					
Commit message	Merged in zack_test_branch1 (pull request #3)					
	commiting file1			11		
Merge strategy	Merge commit	~				
	Close source branch					
			Merge	Cancel		