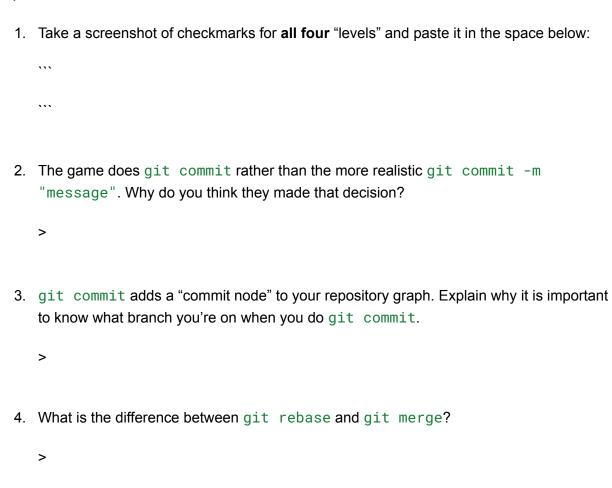
Advanced Git Local Worksheet

You have now had a fair amount of practice using git by yourself; likely without too many issues. As multiple people start to work on a single repository, however, things start to get complicated. This worksheet is intended to give you a better mental model of what is happening when you do things like git merge, git checkout, and git rebase.

Problem 0: Introduction Sequence

Go to https://learngitbranching.js.org/ and complete all four "levels" of the Introduction Sequence track.



Problem 1: Ramping Up

Go to $\underline{\text{https://learngitbranching.js.org/}}$ and complete the **first two** "levels" in the Ramping Up track.

1.	Take a screenshot of checkmarks for first two "levels" and paste it in the space below:	

2.	What does HEAD mean?	
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3.	What is the difference between HEAD pointing to a commit and HEAD pointing to a branch?	
	>	
4.	What is the difference between HEAD pointing to a commit and HEAD pointing to a branch if you do git commit?	
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Problem 2: Moving Work Around		
Go to $\underline{\text{https://learngitbranching.js.org/}}$ and complete $\underline{\text{just the first "level"}}$ in the Moving Work Around track.		
1.	Take a screenshot of checkmarks for just the first "level" and paste it in the space below:	

2.	How are git cherry-pick and git rebase similar?	
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3.	git is a VERY complex system that takes a long time to learn. What has been the hardest part about git for you to understand?	
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Problem 3: Reflection		
1.	How did using the visualizations in learngitbranching.js.org change or clarify your mental model of how git works? Give a specific example of something that became clearer.	
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2.	Thinking ahead to working on your group project with multiple people committing to the same repository, what potential git challenges (e.g., merge conflicts, confusion about branches, accidental rebases) are you most concerned your group might face, and why?	
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3.	Did you notice any obvious errors with this worksheet that should be fixed for future students? If so, what were they?	
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4.	Were there things in the worksheet that were overly confusing and that you think could be improved? If so, what were they?	
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