





The screenshot shows the 'Learn Git Branching' game interface. On the left, a terminal window displays the following commands and their outputs:

```
$ level intro3
$ hint
Remember to commit in the order specified
(bugFix before main)
$ delay 2000
$ show goal
```

On the right, a diagram shows the current state of the Git repository. It features a central node 'c1' with a pink arrow pointing to it from a node labeled 'main*'. Above 'c1' is a node 'c0'. To the right of 'c1' is a node 'c3', and below 'c1' is a node 'c2'. A green arrow labeled 'bugFix' points from 'c1' to 'c2'. A pink arrow labeled 'main*' points from 'c2' to 'c3'. A node 'c4' is at the bottom, with a pink arrow labeled 'main*' pointing to it from 'c3'. A pink arrow points from 'c4' back to 'c2'. The background is a solid blue color.

The screenshot shows the 'Learn Git Branching' game interface after completing Level 3. The terminal window on the left displays the following commands and their outputs:

```
$ level intro3
$ hint
Remember to commit in the order specified
(bugFix before main)
$ delay 2000
$ show goal
$ git branch bugFix
$ git checkout bugFix
$ git commit
$ git checkout main
$ git commit
$ git merge bugFix
```

A confirmation dialog box is displayed in the center of the screen. It has a title bar and contains the following text:

Great Job!!!

You solved the level in 6 command(s); our solution uses 5.

See if you can whittle it down to 5 :D

Would you like to move on to "Rebase Introduction", the next level?

Buttons: Cancel, Confirm

The background is a solid dark blue color.

Learn Git Branching

Hide Goal

Level Rebase introduction

Instructions

```
$ level intro4
$ hint
Make sure you commit from bugFix first
$ delay 2000
$ show goal
```

CO

C1

main*

Goal To Reach

You can hide this window with "hide goal"

CO

C1

C2

C3

C3*

bugFix*

main

Learn Git Branching

Show Goal

Level Rebase introduction

Instructions

```
$ level intro4
$ hint
Make sure you commit from bugFix first
$ delay 2000
$ show goal
$ git branch bugFix
$ git checkout bugFix
$ git commit
$ git checkout main
$ git commit
$ git checkout bugFix
$ git rebase main
```

CO

Great Job!!!

You solved the level in 7 command(s); our solution uses 6.

See if you can whittle it down to 6 :D

Would you like to move on to "Detach yo' HEAD", the next level?

Cancel

Confirm

Learn Git Branching

Hide Goal | Level: Detach yo' HEAD | Instructions

```
$ level rampup1
$ hint
Use the label (hash) on the commit for help!
$ delay 2000
$ show goal
```

```
graph TD
    C0((C0)) --> C1((C1))
    C1 --> C2((C2))
    C1 --> C3((C3))
    C3 --> C4((C4))
    main[main] --> C2
    bugfix[bugfix*] --> C4
```

Goal To Reach

You can hide this window with "hide goal"

```
graph TD
    C0((C0)) --> C1((C1))
    C1 --> C2((C2))
    C1 --> C3((C3))
    C3 --> C4((C4))
    main[main] --> C2
    bugfix[bugfix*] --> C4
    HEAD[HEAD] --> C4
```

Learn Git Branching

Show Goal | Level: Detach yo' HEAD | Instructions

```
$ level rampup1
$ hint
Use the label (hash) on the commit for help!
$ delay 2000
$ show goal
$ git checkout C4
```

```
graph TD
    C0((C0)) --> C1((C1))
    C1 --> C2((C2))
    C1 --> C3((C3))
    C3 --> C4((C4))
    main[main] --> C2
    bugfix[bugfix*] --> C4
    HEAD[HEAD] --> C4
```

Great Job!!!

You solved the level in 1 command(s); our solution uses 1.

Awesome! You matched or exceeded our solution.

Would you like to move on to "Relative Refs (^)", the next level?

Cancel Confirm

Learn Git Branching

Hide Goal

Level Relative Refs (*)

Instructions

\$ level rampup2

\$ hint

Remember the Caret (^) operator!

\$ delay 2000

\$ show goal

Goal To Reach

You can hide this window with "hide goal"

Learn Git Branching

Show Goal

Level Relative Refs (*)

Instructions

\$ level rampup2

\$ hint

Remember the Caret (^) operator!

\$ delay 2000

\$ show goal

\$ git checkout C3

Great Job!!!

You solved the level in 1 command(s); our solution uses 1.

Awesome! You matched or exceeded our solution.

Would you like to move on to "Relative Refs #2 (-)", the next level?

Cancel

Confirm

Learn Git Branching

Hide Goal

Level Relative Refs #2 (~)

Instructions

```
$ level rampup3
$ hint
You'll need to use at least one direct
reference (hash) to complete this level
$ delay 2000
$ show goal
```

Goal To Reach

You can hide this window with "hide goal"

Learn Git Branching

Show Goal

Level Relative Refs #2 (~)

Instructions

```
$ level rampup3
$ hint
You'll need to use at least one direct
reference (hash) to complete this level
$ delay 2000
$ show goal
$ git branch -f master c6
$ git checkout bugFix
$ git branch -f bugFix c0
$ git checkout main
$ git branch -f main master
$ git checkout c1
```

Great Job!!!

You solved the level in 6 command(s); our solution uses 3.

See if you can whittle it down to 3 :D

Would you like to move on to "Reversing Changes in Git", the next level?

Cancel

Confirm

Learn Git Branching

Hide Goal

Level Reversing Changes in Git

Instructions

```
$ level rampup4
$ hint
Notice that revert and reset take
different arguments.
$ delay 2000
$ show goal
```

Goal To Reach

You can hide this window with "hide goal"

Learn Git Branching

Show Goal

Level Reversing Changes in Git

Instructions

```
$ level rampup4
$ hint
Notice that revert and reset take
different arguments.
$ delay 2000
$ show goal
$ git checkout pushed
$ git revert pushed
$ git checkout local
$ git branch -f local main
```

Great Job!!!

You solved the level in 4 command(s); our solution uses 3.

See if you can whittle it down to 3 :D

Would you like to move on to "Cherry-pick Intro", the next level?

Cancel

Confirm

Learn Git Branching

Show Goal Level Interactive Rebase Intro Instructions

```
$ level move2
$ hint
you can use either branches or relative
refs (HEAD~) to specify the rebase target
$ delay 2000
$ show goal
```

Commit history (top to bottom): C0, C1, C2, C3, C4, C5 (main*)

Annotation: overHere (pointing to C1)

Learn Git Branching

Show Goal Level Interactive Rebase Intro Instructions

```
$ level move2
$ hint
you can use either branches or relative
refs (HEAD~) to specify the rebase target
$ delay 2000
$ show goal
$ git rebase -i HEAD~4
```

Great Job!!!

You solved the level in 1 command(s); our solution uses 1.

Awesome! You matched or exceeded our solution.

Would you like to move on to "Grabbing Just 1 Commit", the next level?

Buttons: Cancel, Confirm

Commit history (top to bottom): C0, C1, C2, C3, C4, C5

Learn Git Branching

Hide Goal

Level Grabbing Just 1 Commit

Instructions

```
$ level mixed1
$ hint
Remember, interactive rebase or cherry-pick is your friend here
$ delay 2000
$ show goal
```

Goal To Reach

Note: Only the main branch will be checked in this level. The other branches are simply for reference (shown as dashed labels below). As always, you can hide this dialog with "Hide goal".

Learn Git Branching

Show Goal

Level Grabbing Just 1 Commit

Instructions

```
$ level mixed1
$ hint
Remember, interactive rebase or cherry-pick is your friend here
$ delay 2000
$ show goal
$ git rebase -i HEAD~3
$ git checkout main
$ git branch -f main bugfix
```

Great Job!!!

You solved the level in 3 command(s); our solution uses 2.

See if you can whittle it down to 2 :D

Would you like to move on to "Juggling Commits", the next level?

Cancel

Confirm

Learn Git Branching

Hide Goal

Level Juggling Commits

Instructions

```
$ level mixed2
$ hint
The first command is git rebase -i HEAD~2
$ delay 2000
$ show goal
```

c0

c1

c2

c3

main

newImage

caption*

Goal To Reach

Note: Only the main branch will be checked in this level. The other branches are simply for reference (shown as dashed labels below). As always, you can hide this dialog with "Hide goal".

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c2

c3

c4

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Learn Git Branching

Hide Goal

Level Juggling Commits #2

Instructions

```
$ level mixed3
$ hint
Don't forget to forward main to the
updated changes!
$ delay 2000
$ show goal
```

c0

c1

c2

c3

main

newImage

caption*

Goal To Reach

Note: Only the main branch will be checked in this level. The other branches are simply for reference (shown as dashed labels below). As always, you can hide this dialog with "hide goal".

c0

c1

c2

c3

c2'

c3'

main*

newImage

caption

Learn Git Branching

Show Goal

Level Juggling Commits #2

Instructions

```
$ level mixed3
$ hint
Don't forget to forward main to the
updated changes!
$ delay 2000
$ show goal
$ git checkout main
$ git cherry-pick c2
$ git branch -f main c1
$ git cherry-pick c2 c3
```

Great Job!!!

You solved the level in 4 command(s); our solution uses 4.

Awesome! You matched or exceeded our solution.

Would you like to move on to "Git Tags", the next level?

Cancel

Confirm

c0

Learn Git Branching

Hide Goal

Level Git Tags

Instructions

```
$ level mixed4
$ hint
you can either check out the commit
directly or simply checkout the tag!
$ delay 2000
$ show goal
```

Goal To Reach

You can hide this window with "hide goal"

Learn Git Branching

Show Goal

Level Git Tags

Instructions

```
$ level mixed4
$ hint
you can either check out the commit
directly or simply checkout the tag!
$ delay 2000
$ show goal
$ git tag v0 c1
$ git tag v1 c2
$ git checkout c2
```

Great Job!!!

You solved the level in 3 command(s); our solution uses 3.

Awesome! You matched or exceeded our solution.

Would you like to move on to "Git Describe", the next level?

Cancel

Confirm

Learn Git Branching

Hide Goal

Level Git Describe

Instructions

\$ level mixed5

\$ hint

Just commit once on bugFix when you're ready to move on

\$ delay 2000

\$ show goal

Goal To Reach

You can hide this window with "hide goal"

Learn Git Branching

Show Goal

Level Git Describe

Instructions

\$ level mixed5

\$ hint

Just commit once on bugFix when you're ready to move on

\$ delay 2000

\$ show goal

\$ git commit

Great Job!!!

You solved the level in 1 command(s); our solution uses 1.

Awesome! You matched or exceeded our solution.

Would you like to move on to "Rebasing over 9000 times", the next level?

Cancel

Confirm

Learn Git Branching

Hide Goal

Level Rebasing over 9000 times

Instructions

\$ level advanced1

\$ hint

Remember, the most efficient way might be to only update main at the end...

\$ delay 2000

\$ show goal

Goal To Reach

Note: Only the main branch will be checked in this level. The other branches are simply for reference (shown as dashed labels below). As always, you can hide this dialog with "hide goal".

Learn Git Branching

Show Goal

Level Rebasing over 9000 times

Instructions

\$ level advanced1

\$ hint

Remember, the most efficient way might be to only update main at the end...

\$ delay 2000

\$ show goal

\$ git rebase main bugFix

\$ git rebase bugFix side

\$ git rebase side another

\$ git checkout main

\$ git branch -f main another

Great Job!!!

You solved the level in 5 command(s); our solution uses 4.

See if you can whittle it down to 4 :D

Would you like to move on to "Multiple parents", the next level?

Cancel

Confirm

Learn Git Branching

Hide Goal

Level Multiple parents

Instructions

```
$ level advanced2
$ hint
Use 'git branch bugWork' with a target
commit to create the missing reference.
$ delay 2000
$ show goal
```

```
graph BT
    C0((C0)) --> C1((C1))
    C1 --> C2((C2))
    C1 --> C3((C3))
    C2 --> C5((C5))
    C3 --> C4((C4))
    C4 --> C6((C6))
    C6 --> C7((C7))
    main*[main*] --> C7
```

Goal To Reach

You can hide this window with "hide goal"

```
graph BT
    C0((C0)) --> C1((C1))
    C1 --> C2((C2))
    C1 --> C3((C3))
    C2 --> C5((C5))
    C3 --> C4((C4))
    C4 --> C6((C6))
    C6 --> C7((C7))
    main*[main*] --> C7
    bugWork[bugWork] --> C2
```

Learn Git Branching

Show Goal

Level Multiple parents

Instructions

```
$ level advanced2
$ hint
Use 'git branch bugWork' with a target
commit to create the missing reference.
$ delay 2000
$ show goal
$ git checkout c2
$ git branch bugWork
$ git checkout main
```

```
graph BT
    C0((C0)) --> C1((C1))
    C1 --> C2((C2))
    C1 --> C3((C3))
    C2 --> C5((C5))
    C3 --> C4((C4))
    C4 --> C6((C6))
    C6 --> C7((C7))
    main*[main*] --> C7
```

Great Job!!!

You solved the level in 3 command(s); our solution uses 1.

See if you can whittle it down to 1 :D

Would you like to move on to "Branch Spaghetti", the next level?

Cancel

Confirm

Learn Git Branching

Hide Goal

Level Branch Spaghetti

Instructions

\$ level advanced3

\$ hint

Make sure to do everything in the proper order! Branch one first, then two, then three

\$ delay 2000

\$ show goal

one

three

two

main*

Goal To Reach

You can hide this window with "hide goal"

three

one

two*

main*

Learn Git Branching

Show Goal

Level Branch Spaghetti

Instructions

\$ level advanced3

\$ hint

Make sure to do everything in the proper order! Branch one first, then two, then three

\$ delay 2000

\$ show goal

\$ git checkout one

\$ git cherry-pick c4 c3 c2

\$ git checkout two

\$ git cherry-pick c5 c4 c3 c2

\$ git branch -f three c2

Great Job!!!

You solved the level in 5 command(s); our solution uses 5.

Awesome! You matched or exceeded our solution.

Would you like to move on to "Clone Intro", the next level?

Cancel

Confirm

main*

two*