



# Tips and Tricks

Gotta Git Them All



# Tips and Tricks

Gotta Git Them All



Brent Beer  
**Solutions Engineer @ GitHub**  
**likes coffee; wishes Daft Punk and Justice would do a back-to-back set**





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Services Engineer @ GitHub  
Likes art; travels in a vanagon with dog and boyfriend

 allthedoll

# The Agenda

- Git
  - Git LFS
- GitHub
  - Gists
- Atom

# Git

- Workflow efficiencies
- Advance usage
- Git LFS



*git log -L <start>,<end>:FILE*

*git log -L 3,10:commands/command\_clone.go*

```
[/github/git-lfs]$ git log -L 3,10:commands/command_clone.go -2 --format=short
commit 0f63130c23894cf030651566712ba31d650e873d
Author: Taylor Blau <me@ttaylorr.com>
```

commands, lfs: resolve localstorage in PreRun, not init

```
diff --git a/commands/command_clone.go b/commands/command_clone.go
--- a/commands/command_clone.go
+++ b/commands/command_clone.go
@@ -3,7 +3,8 @@
 import (
     "os"
     "path"
     "path/filepath"
     "strings"

+    "github.com/github/git-lfs/localstorage"
+    "github.com/github/git-lfs/subprocess"
```

```
commit 04931af6c267f27d6b073e696b09dad7db74e82a
Author: Steve Streeting <steve@stevestreeting.com>
```

In git 2.9+, run "git lfs pull" in submodules after "git lfs clone"

```
diff --git a/commands/command_clone.go b/commands/command_clone.go
--- a/commands/command_clone.go
+++ b/commands/command_clone.go
```

*git config --global color.ui auto*

*git status -sb*

# Before:

```
On branch 2016-universe-tips-and-tricks-outline
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    modified:   docs/blog-posts/README.md
```

# After:

```
## 2016-universe-tips-and-tricks-outline
M  docs/blog-posts/README.md
```

```
poppy:services-engineering allthedoll$ git log --graph --pretty=format:  
'%Cred%h%Creset -%C(yellow)%d%Creset %s %Cgreen(%cr) %C(bold blue)<%an>  
%Creset' --abbrev-commit --date=relative
```

```
| * 39c2027 - Cleanup for work to start (5 weeks ago) <Stefan Stölzle>
| * 01744a8 - Add Azure Configuration (4 months ago) <Stefan Stölzle>
| * 3528307 - Add AWS Configuration (4 months ago) <Stefan Stölzle>
| | * 584282c - (origin/allthedoll-pro-git-tldr) Adding-chapter-one-content (5 weeks ago) <J
| | * 6a09769 - Changing-filepath-for-pro-git-tldr (5 weeks ago) <Jamie Strusz>
| | * ed13146 - Creating-pro-git-tldr-for-onboarding (5 weeks ago) <Jamie Strusz>
| |
|/
|/
* | 4fff884 - Merge pull request #39 from github/fun-facts-addition (6 weeks ago) <Jamie S
| \
| *
| | 7ba6e50 - Creating-fun-facts (7 weeks ago) <Jamie Strusz>
* | | af2020e - Merge pull request #38 from github/make-roadmap-link-to-milestones (6 weeks
| \
| \
| | /
|/
|/
| *
| | c926a07 - add July and August links to Roadmap file (9 weeks ago) <Matt Duff>
* | | 8a06cd4 - Merge pull request #34 from github/kylemacey-bookmarklet (9 weeks ago) <Ky
```

# *git grep*

```
git grep 'time_t' -- '*.[ch]'
```

*git config --global help.autocorrect 10*

```
poppy:services-engineering allthedoll$ git comit  
WARNING: You called a Git command named 'comit', which does not exist.  
Continuing under the assumption that you meant 'commit'  
in 0.3 seconds automatically...  
On branch stoe-add-aws-azure-guides  
nothing to commit, working directory clean
```

*git add -p*



*git merge --no-edit*

*git rebase -i*

*git rebase -i HEAD~5*

```
1 pick 1dabeb5 commands: make `FullError` print the first line of debugged or fatal errors-
2 reword 50ba7eb test: add optional $msg parameter to `push_fail_test`-
3 edit| 7ccc6b5 test/push: assert message is logged in a /storage 503-
4 squash 0a40ef2 commands: clarify LoggedError documentation-
5 pick fc2c9e8 Add icons to the Windows installer-
6 -
7 # Rebase f54b90f..b7b1f2b onto f54b90f (5 command(s))-#
8 #
9 # Commands:-
10 # p, pick = use commit-
11 # r, reword = use commit, but edit the commit message-
12 # e, edit = use commit, but stop for amending-
13 # s, squash = use commit, but meld into previous commit-
14 # f, fixup = like "squash", but discard this commit's log message-
15 # x, exec = run command (the rest of the line) using shell-
16 # d, drop = remove commit-
```

*git rebase -i --squash*

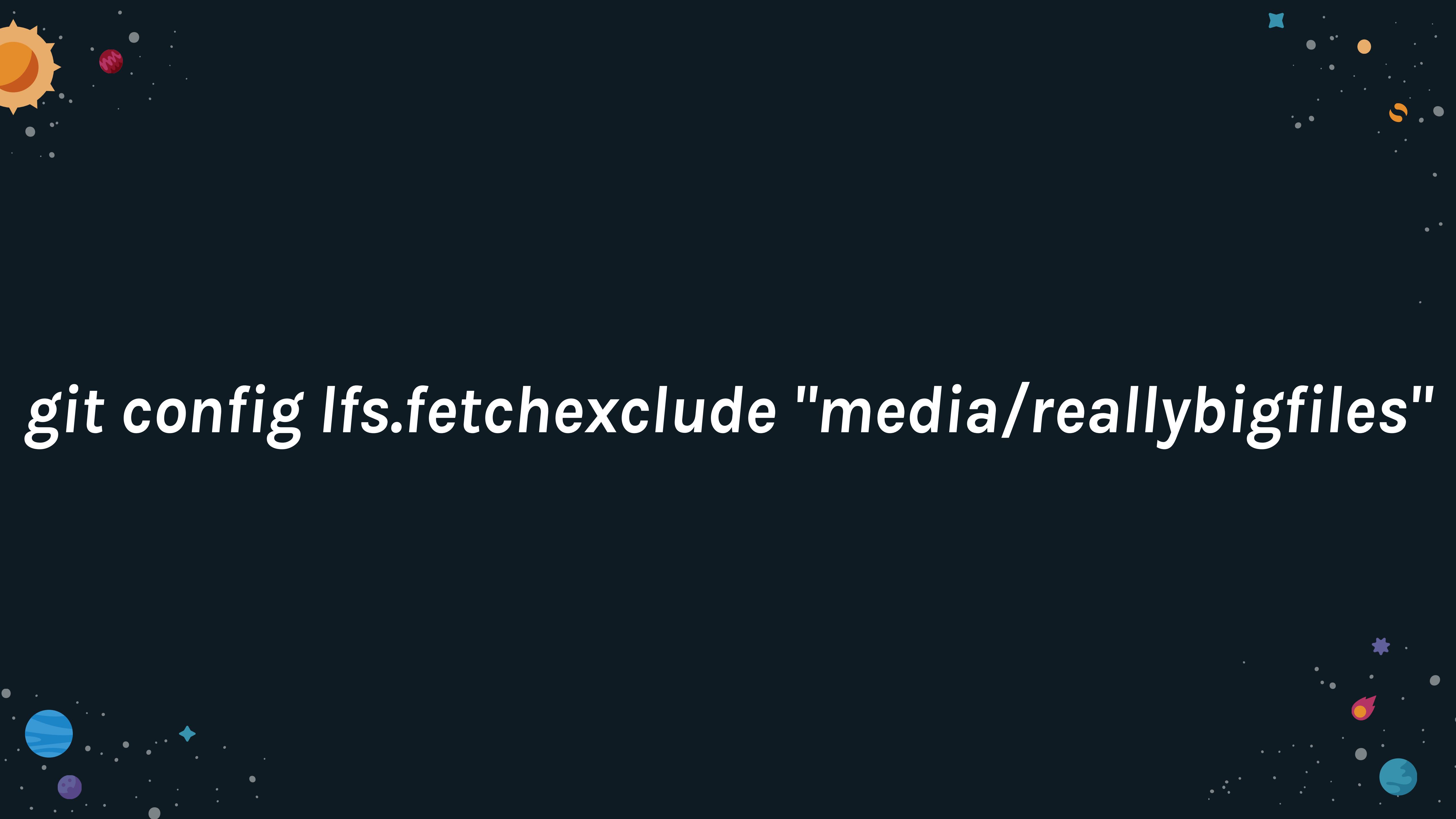
# *git lfs*





*git lfs prune*

*git lfs prune -c*



`git config lfs.fetchexclude "media/reallybigfiles"`

*git lfs clone*

# GitHub

- Collaboration
- Discovery and Speed
- Gists

```
[/brntbeer/github]$ svn checkout https://github.com/brntbeer/training-utils
```

[github.com/explore/subscribe](https://github.com/explore/subscribe)

# Subscribe to GitHub's Explore Email

Interesting repositories delivered to your inbox.

None

Email isn't for everyone. Or maybe you've just made [github.com/explore](https://github.com/explore) your homepage. We won't send you any emails.

Daily

Start your day with a delicious cup of coffee (or perhaps an artisan matcha latte) and interesting repositories every day.

Weekly

The perfect way to keep on top of everything GitHub. Every Tuesday, we'll send you an email of the past week's trending repositories.

Monthly

The best option for lurkers who want to keep up with major happenings in the open source world.





**This branch has no conflicts with the base branch**

Only those with [write access](#) to this repository can merge pull requests.



Write

Preview



Leave a comment

Attach files by dragging & dropping, [selecting them](#), or pasting from the clipboard.

Styling with Markdown is supported

[Close pull request](#)

[Co](#)

**ProTip!** Add [.patch](#) or [.diff](#) to the end of URLs for Git's plaintext views.

1 participant



Notifications

[Unsubscribe](#)

You're receiving notifications because you authored the thread.

Allow edits from maintainers.

[Learn more](#)

If checked, users with write access to **bojzi/sound-machine-electron-guide** can add new commits to your `patch-1` branch. You can always change this setting later.





Compare ranges:  
[https://github.com/reactiveui/  
ReactiveUI/compare/6.4.0...6.5.0](https://github.com/reactiveui/ReactiveUI/compare/6.4.0...6.5.0)



## Latest release

🏷 6.5.0

⌚ 563f696

# ReactiveUI 6.5.0



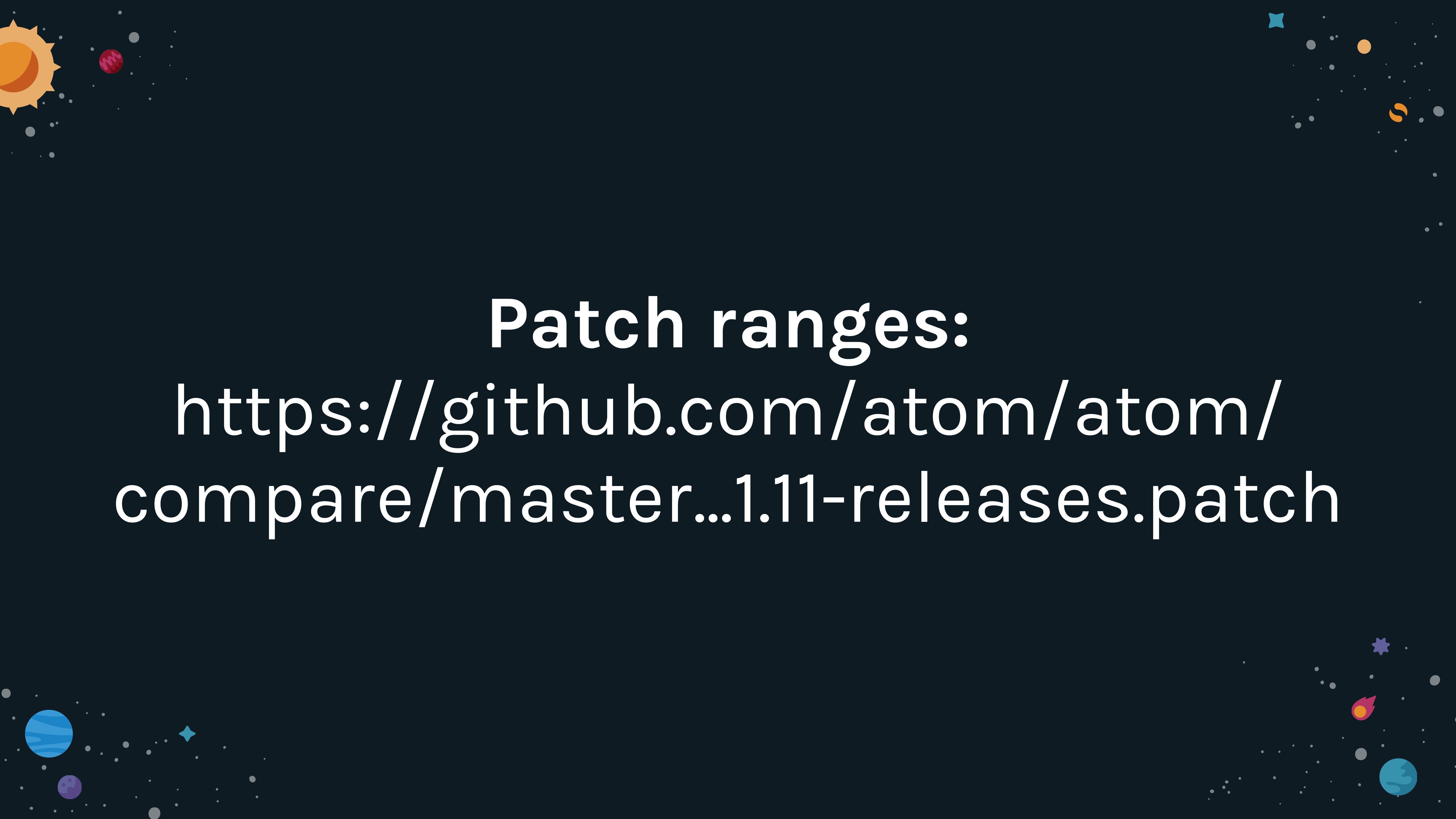
paulcbetts released this on May 10, 2015 · 34 commits to master since this release

## What's New

### Collection View improvements (#820)

Thanks to @kentcb, our support of UITableViewController and UICollectionView are much more reliable, and will correctly animate in items. A huge thanks for an awesome PR!





# Patch ranges:

<https://github.com/atom/atom/compare/master...1.11-releases.patch>

# Anchors on line numbers



144 lines (123 sloc) | 5.39 KB

Raw

Blame

History



```
1 package commands

2

3 import (
4     "os"
5     "path"
6     "path/filepath"
7     "strings"
8
9     "github.com/github/git-lfs/localstorage"
10    "github.com/github/git-lfs/subprocess"
11
12    "github.com/github/git-lfs/git"
13    "github.com/github/git-lfs/tools"
14    "github.com/spf13/cobra"
15 )
16
17 var (
```

# references and closing issues/PRs

Add more commits by pushing to the [2016-universe-tips-and-tricks-outline](#) branch on [github/services](#).



### Merge pull request #2448 from [github/2016-universe-tips-and-tricks-outline](#)

2016 universe tips and tricks outline

closes #turtles

[#2465 I like turtles](#)

[Confirm](#)

[#1823 Training: June - Open Enrollment Classes](#)

[#2005 Training: July - Open Enrollment Classes](#)

[#2062 Training: August - Open Enrollment Classes](#)

[Write](#)

[#1171 GitHub Training instructor-lead class slide decks](#)



# Filter pull requests by status

[Issues](#)[Pull requests](#)[Labels](#)[Milestones](#)[Filters ▾](#) is:pr[New pull request](#)[X Clear current search query, filters, and sorts](#)

476 Open ✓ 12,665 Closed

Author ▾

Labels ▾

Milestones ▾

Assignee ▾

Sort ▾

### Fix email with name format in Guides. [ci skip]

#20310 opened 2 hours ago by guigs

0

### Add info on default layout functionality 3.2 >> 4.0 upgrade ✓

#20309 opened 3 hours ago by stephen-puiszis

0

### Add missing RFC2616 http method checkers into the ActionDispatch::Request ✓

#20307 opened 4 hours ago by meinac

1

### Split HTTP Methods from ActionDispatch::Request to separate module ✓

#20306 opened 7 hours ago by meinac

1

### Add missing nodocs and docs for ActionDispatch::Request [ci skip]

#20305 opened 7 hours ago by meinac

2

### Remove unused variable ✓

#20304 opened 9 hours ago by arunagw

1

### Remove redundant 'like' from doc of slice! method [ci skip]

1

# code search



## Locking commands

#1223

This PR adds to @sinbad's original proposal and extends it to document some particular commands that we will have to teach the LFS client. All of the documentation surrounding these new commands and ...



github/git-lfs



Opened by ttaylorr on May 16



30 comments



## Some design notes I wrote a while back when thinking about locking

#666

I've given locking some thought before so I've pulled out my notes about how I think it could work for a git-lfs proposal.



github/git-lfs



Opened by sinbad on Sep 14, 2015



4 comments



# Add syntax highlighting to codeblocks in markdown files

```
require 'tk'

root = TkRoot.new { title 'push this button' }
lab = TkLabel.new(root) { text "push this button" }
lab.pack

TkButton.new {
    text "PUSH"
    command { print "LELELEL!\n" }
    pack
}

Tk.mainloop
```

# Keyboard shortcuts



# Gists as full repos:

```
git clone https://gist.github.com/allthedoll/  
966bebdbc6ed6b78942e6d9b1369c0b3
```

# Embedded Gists

## Example

```
{% gist 4321346 %}
```

```
1 @@ -590,7 +590,7 @@ class SpritesTest < Test::Unit::TestCase
2   it "should generate a sprite from nested folders" do
3     css = render <<-SCSS
4     -   @import "nested/*.png";
5     +   @import "nested/**/*.*";
6       @include all-nested-sprites;
7     SCSS
8     assert_correct css, <<-CSS
```

**gistfile1.diff** hosted with ❤ by GitHub

[view raw](#)

# Atom

- Keyboard commands
- Packages

alt-g ↑

cmd-shift-p

```
1 # Tips and Tricks: Gotta Git Them All-
2
3 ## Description-
4 It's the little details that make using Git and GitHub so
5 great, but what are those details and commands that expose
6 you to the best of the platform? Do you know how to close
7 issues from pull requests? How to quickly browse to a file?
8 Do you know how to find the history of a range of lines in
9 a given file?-  

10
11 In this session we'll move you beyond the common workflows
12 you started out learning and using with GitHub, and begin
13 exposing you to well documented commands and features that
14 make you feel like an expert. By the end, you will learn
15 some practical tips and tricks to work faster, easier, and
16 expose you to the last 10% of knowledge to master Git and
17 GitHub.-  

18
19 ## Outline (40min not including backups)-  

20
21 #### Introduction-
22 "Okay hi welcome! there's a lot of things we want to talk
23 about today. A lot of this information we hope encourages
24 you to dig deeper into the tool, and at the very least talk
25 to us at the office hours after this to talk more about it.
26 Take all the photos you want of the commands and features,
27 but we'll also be sharing these slides for everyone to see
28 as well."-  

29
30 #### Git (10min)-
```

# Tips and Tricks: Gotta Git Them All

## Description

It's the little details that make using Git and GitHub so great, but what are those details and commands that expose you to the best of the platform? Do you know how to close issues from pull requests? How to quickly browse to a file? Do you know how to find the history of a range of lines in a given file?

In this session we'll move you beyond the common workflows you started out learning and using with GitHub, and begin exposing you to well documented commands and features that make you feel like an expert. By the end, you will learn some practical tips and tricks to work faster, easier, and expose you to the last 10% of knowledge to master Git and GitHub.

## Outline (40min not including backups)

### Introduction

"Okay hi welcome! there's a lot of things we want to talk about today. A lot of this information we hope encourages you to dig deeper into the tool, and at the very least talk to us at the office hours after this to talk more about it. Take all the photos you want of the commands and features, but we'll also be sharing these slides for everyone to see as well."

### Git (10min)

- `git log` to show you only files that have been edited
  - `-L ,:`
- Add some color to your git life with `git config --global color.ui 1`
  - [Colors in git](#)

```
122 - GitHub can handle and render diffs with visual representations of [geospatial  
• data](https://github.com/blog/1772-diffable-more-customizable-maps)  
123 -  
124 ##### Syntax highlight example  
125 ``Ruby  
126 require 'tk'  
127 -  
128 root = TkRoot.new { title 'push this button' }  
129 lab = TkLabel.new(root) { text "push this button" }  
130 lab.pack  
131 -  
132 TkButton.new {  
• text "PUSH"  
134 <<<<< HEAD  
• command { print "Tadaaaaa!!\n" }  
136 =====  
• command { print "lololol!\n" }  
138 >>>>> f73212335353958b42c0159f529b5b102ebdb030  
139 • pack  
140 }  
141 -  
142 Tk.mainloop  
143 -  
144 -  
145 ### Atom (5min)  
146 - merge conflict resolution  
- chrome plugin / atom plugin for comment boxes  
- stack overflow plugin  
149 ##### from keynote  
150 - git-time-machine  
• - go back in time using git but it does it by graphing the entire history  
152 beautify?
```

|   | services                               |
|---|--|
| > | class-data                             |
| ▼ | docs                                   |
| > | about                                  |
| > | blog-posts                             |
| > | class-outlines                         |
| ▼ | conference-outlines                    |
|   | 2016-04-05-git-merge-git-imerge.md     |
|   | 2016-04-05-git-merge-scripting-git.md  |
|   | 2016-universe-tips-and-tricks.md       |
|   | 2016-universe-training-day.md          |
| > | feedback                               |
| > | how-to-guides                          |
| > | integration-providers                  |
| > | laminates                              |
| > | operations                             |
| > | readiness-assessment                   |
| > | services-engineers                     |
| > | services-partners                      |
| > | templates                              |
|   | professional-services-overview.md      |
| > | engagements                            |
| > | script                                 |
|   | CONTRIBUTING.md                        |
|   | Gemfile                                |
|   | Gemfile.lock                           |
|   | Professional Services Charter.md       |
|   | radar.yml                              |
|   | Rakefile                               |
|   | README.md                              |
|   | RESOURCES.md                           |
|   | Sales Weekly 8-15 Top Level Summary.md |
|   | TEAM.md                                |

## 2016-universe-tips-and-tricks.x

```
122 - GitHub can handle and render diffs with visual representations of [geospatial  
• data](https://github.com/blog/1772-diffable-more-customizable-maps)  
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129 lab = TkLabel.new(root) { text "push this button" }  
130 lab.pack  
131 -  
132 TkButton.new {  
133   .text "PUSH"  
134   .command { print "Tadaaaaa!!\n" }  
135   .pack  
136 }  
137 -  
138 Tk.mainloop  
139 ````  
140 -  
141 ### Atom (5min)  
142 - merge conflict resolution  
143 - chrome plugin / atom plugin for comment boxes  
144 - stack overflow plugin  
145 ##### from keynote  
146 - git-time-machine  
147 - go back in time using git but it does it by graphing the entire history  
148 - beautify?  
149
```



```
styles-element.coffee  
task-bootstrap.coffee  
task.coffee  
text-editor-component.coffee  
text-editor-element.coffee  
text-editor-marker-layer.coffee  
text-editor-marker.coffee  
text-editor-presenter.coffee  
text-editor.coffee  
text-utils.coffee  
theme-manager.coffee  
theme-package.coffee  
tiled-component.coffee  
token-iterator.coffee  
token.coffee  
tokenized-buffer.coffee  
tokenized-line.coffee  
tooltip-manager.coffee  
tooltip.js  
typescript.js  
view-registry.coffee  
window-event-handler.coffee  
window-load-settings-he  
window.coffee  
workspace-element.coffee  
workspace.coffee  
static
```

```
text-editor.coffee  
55 module.exports =  
56   class TextEditor extends Model  
57     buffer: null  
58     languageMode: null  
59     cursors: null  
60     selections: null  
61     suppressSelectionMerging: false  
62     selectionFlashDuration: 500  
63     gutterContainer: null  
64  
65     @deserialize: (state, atomEnvironment) ->  
66       try  
67         displayBuffer = DisplayBuffer.deserialize(state.displayBuffer, atomEnvironment)  
68       catch error  
69         if error.syscall is 'read'  
70           return # Error reading the file, don't deserialize an editor for it  
71         else  
72           throw error  
73  
74     state.displayBuffer = displayBuffer  
75     state.selectionsMarkerLayer = displayBuffer.getMarkerLayer(state.selectionsMarkerLayerId)  
76     state.config = atomEnvironment.config  
77     state.notificationManager = atomEnvironment.notifications  
78     state.packageManager = atomEnvironment.packages  
79     state.clipboard = atomEnvironment.clipboard  
80     state.viewRegistry = atomEnvironment.views  
81     state.grammarRegistry = atomEnvironment.grammars  
82     state.project = atomEnvironment.project  
83     state.assert = atomEnvironment.assert.bind(atomEnvironment)  
84     state.applicationDelegate = atomEnvironment.applicationDelegate  
85     new this(state)  
86
```

Settings





FIN

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