

Enhancing Developer Creativity with Git

Zack Tollman | [@tollmanz](https://twitter.com/tollmanz)

THE
THEME FOUNDRY

Sit around fixing people's problems



Sit around fixing people's problems

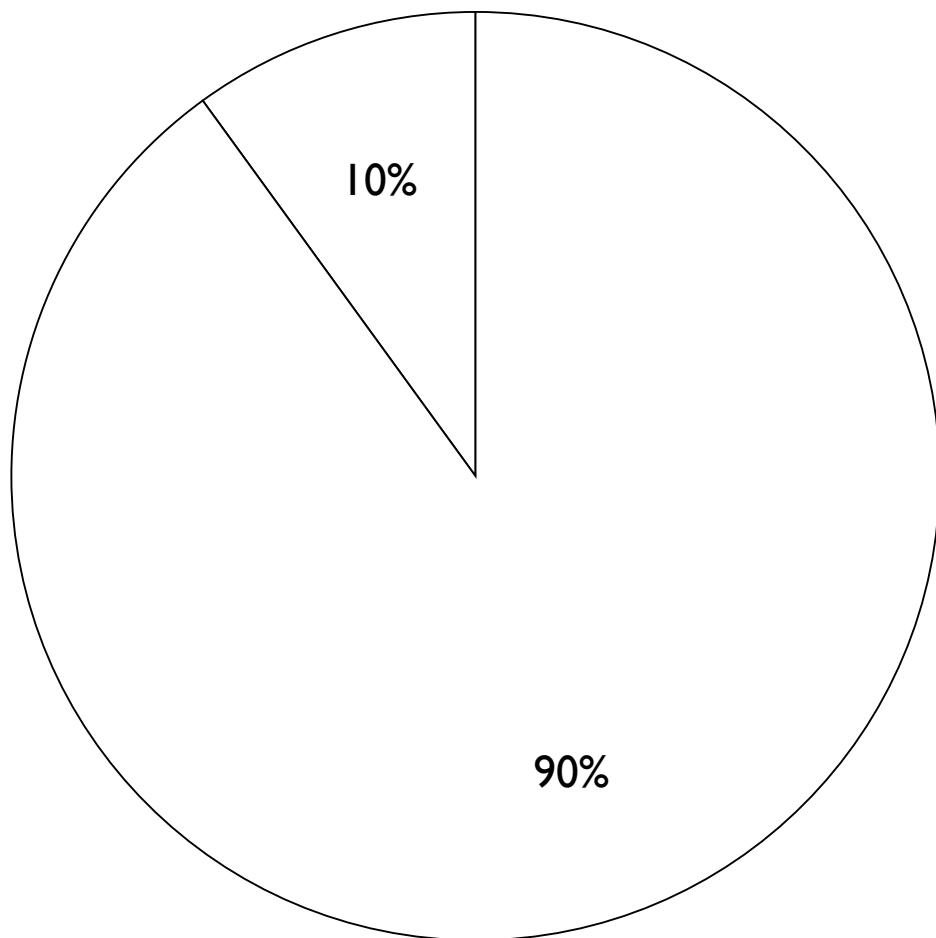


Sit around fixing my own problems

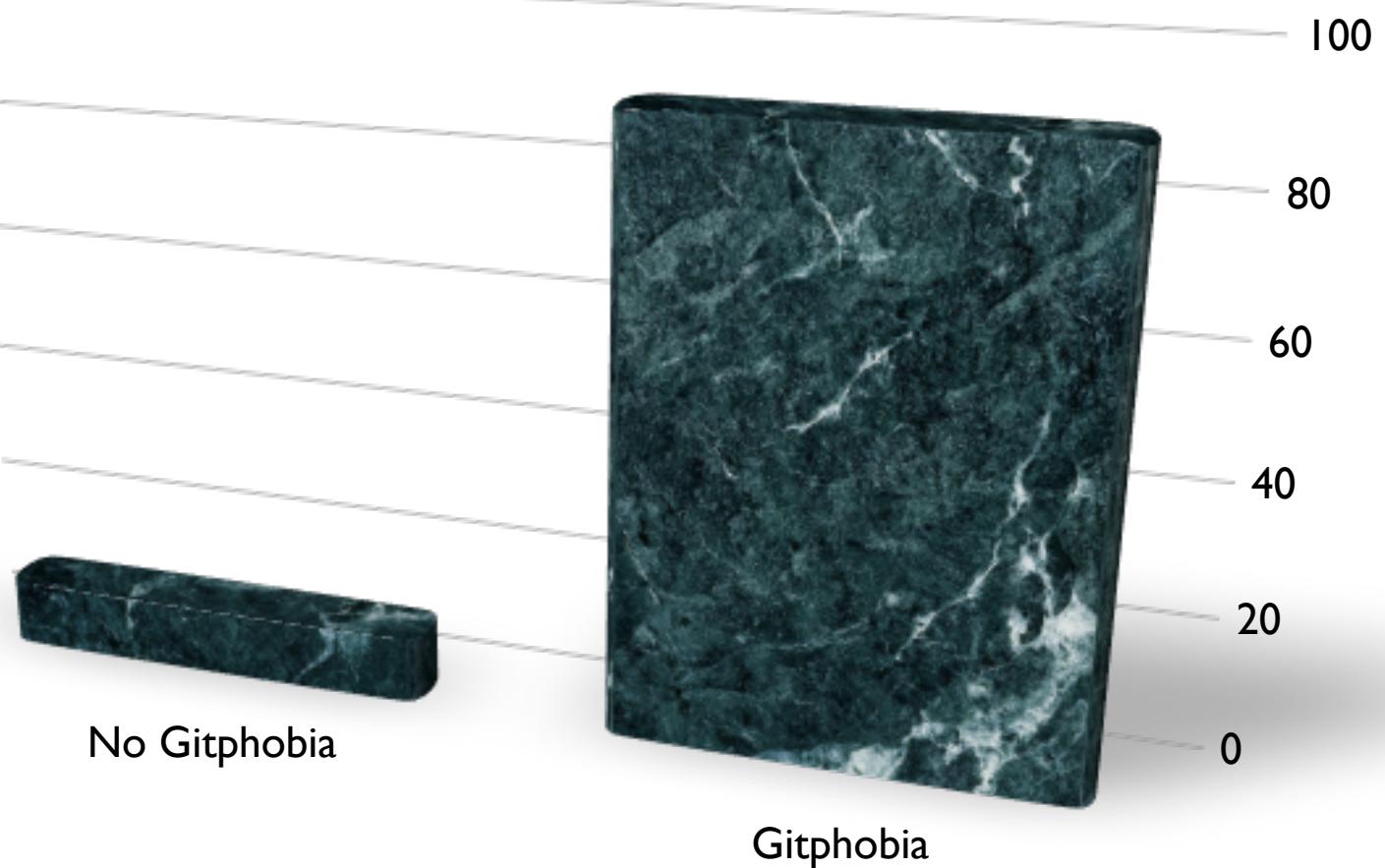
Gitphobia

Gitphobia

No Gitphobia



Indisputable Evidence



Fear is the enemy of creativity

No commits for extended periods of time

Increased physiological responses to

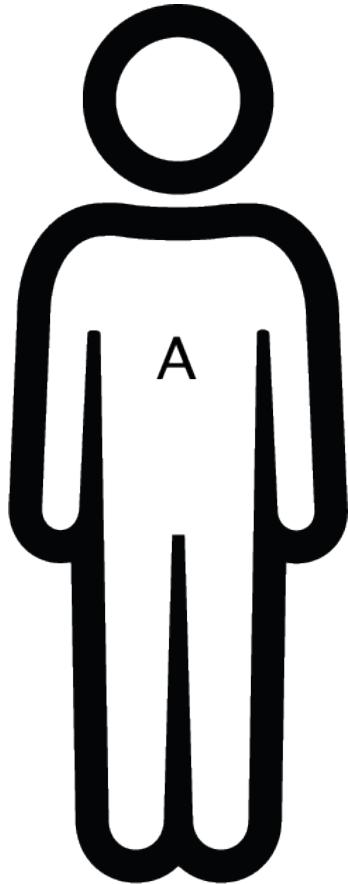


Irrational beliefs in the linearity of VCS

“If I do something, I might *break it all forever*.”

git reflog

git ref(erence)log

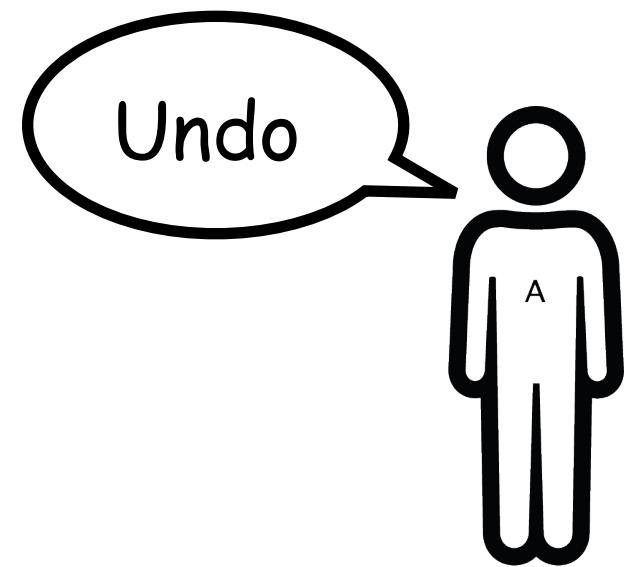


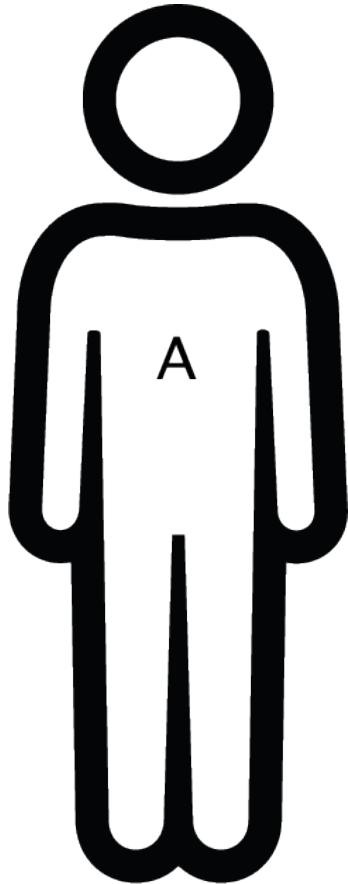
```
git checkout -b 3.6-compat develop
git commit -am "Images compat."
git commit -am "Audio compat."
git checkout develop
git merge --no-ff 3.6-compat
```



[Mark Jaquith](#) 1:16 pm on May 29, 2013

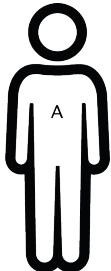
Post Formats UI is exiting core, will live as a plugin

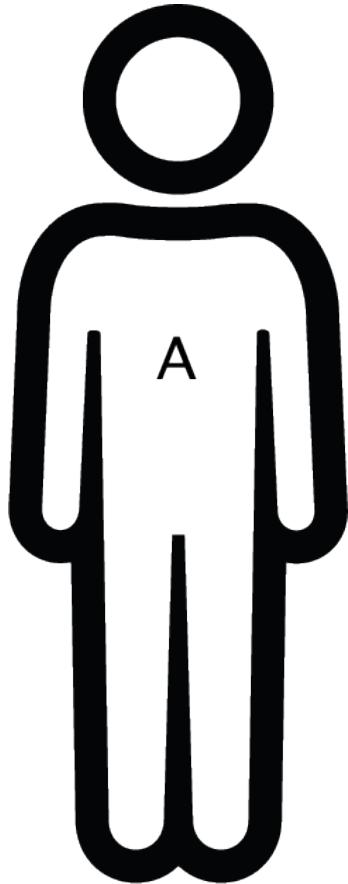




```
$ git log --oneline
e118b4d Merge branch '3.6-compat'
                  into develop
eef05aa Audio compat.
8dfcb39 Images compat.
43d235d Add cats.
6324a8a Update version.
```

```
$ git reflog
e118b4d HEAD@{0}: merge 3.6-compat: Merge made
                      by the 'recursive' strategy.
43d235d HEAD@{1}: checkout: moving from 3.6-
                      compat to develop
eef05aa HEAD@{2}: commit: Audio compat.
8dfcb39 HEAD@{3}: commit: Images compat.
43d235d HEAD@{4}: checkout: moving from develop
                      to 3.6-compat
43d235d HEAD@{5}: commit: Add cats.
6324a8a HEAD@{6}: commit: Update version.
9716744 HEAD@{7}: commit: Fix notice.
```





```
$ git reset --hard HEAD@{5}  
HEAD is now at 43d235d Add cats.
```

```
$ git log --oneline  
43d235d Add cats.  
6324a8a Update version.  
9716744 Fix notice.  
ecad8ad Initial commit.
```

```
git reset --hard HEAD@{1}  
git config --global alias.undo  
  'reset --hard HEAD@{1}'
```

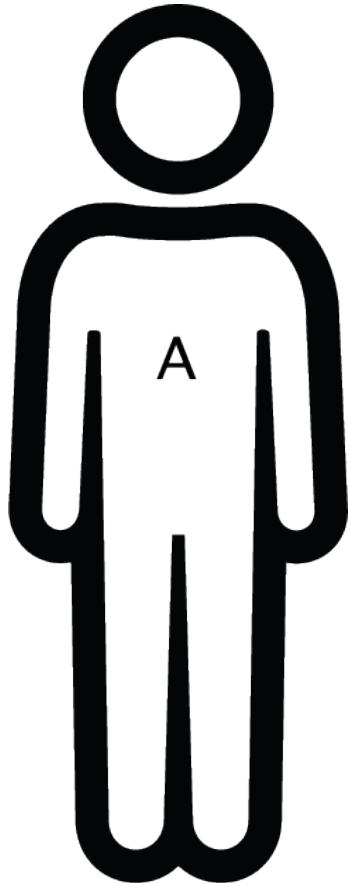
```
git reset --hard ORIG_HEAD
```

“Everyone will hate my work *all the time*.”

git merge

Commit early, commit often

```
$ git checkout -b single-page
```



...work...

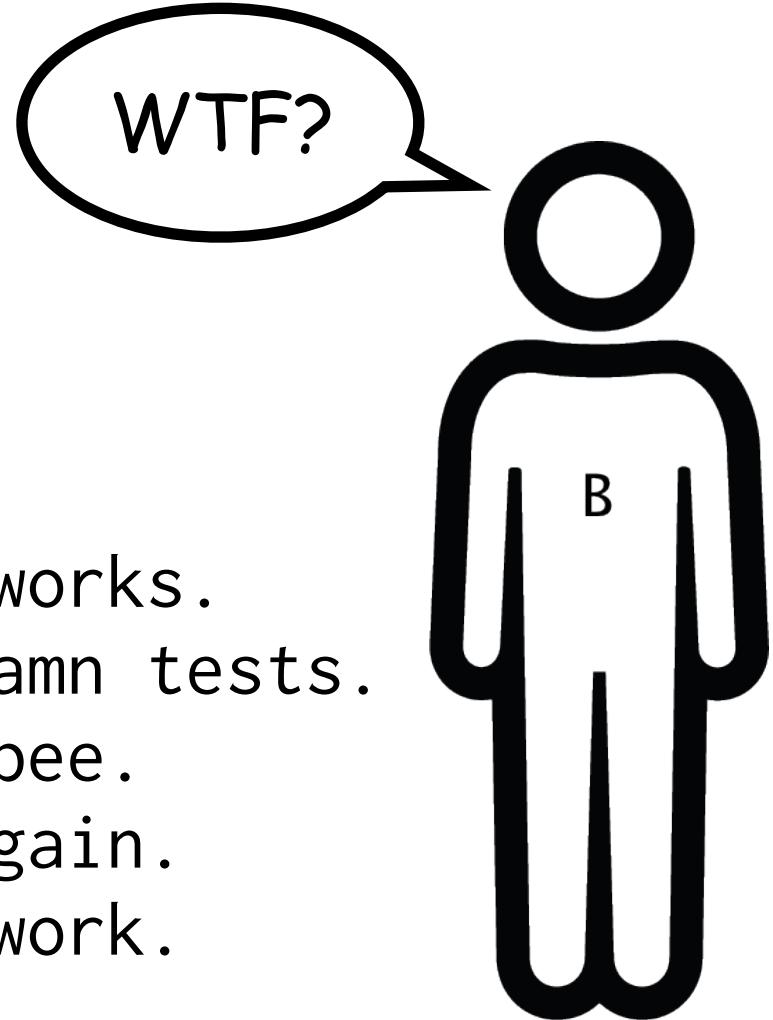
```
$ git log --oneline
a8fcraf Everything final works.
017cb84 Ugh...broke the damn tests.
e5dc861 It's working. Yippee.
7f89b77 Stupid IE...try again.
6f65fa4 Try to make this work.
```

```
$ git checkout develop
```

```
$ git merge single-page
```

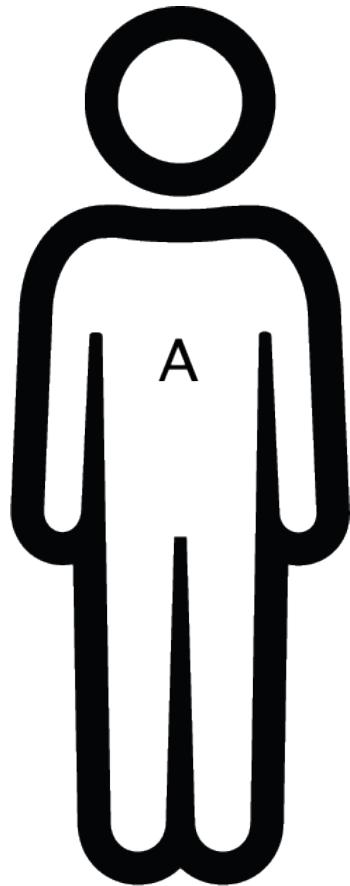
```
$ git checkout develop  
$ git pull
```

```
$ git log --oneline  
a8fcafc Everything final works.  
017cb84 Ugh...broke the damn tests.  
e5dc861 It's working. Yippee.  
7f89b77 Stupid IE...try again.  
6f65fa4 Try to make this work.
```



Commit early, commit often
and
when you merge, put some effort into it

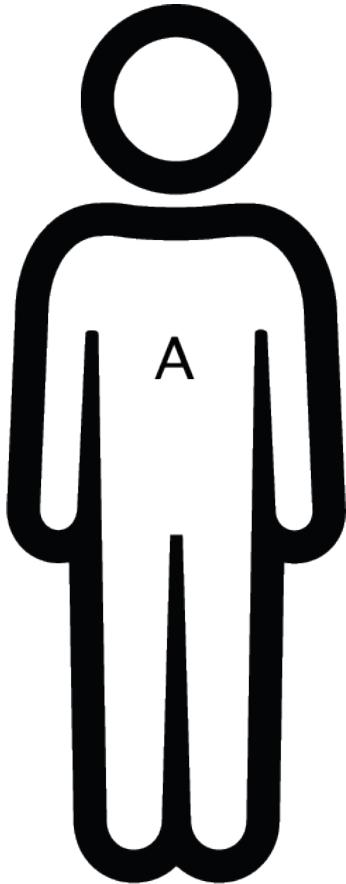
```
git merge --squash
```



```
$ git checkout -b single-page
```

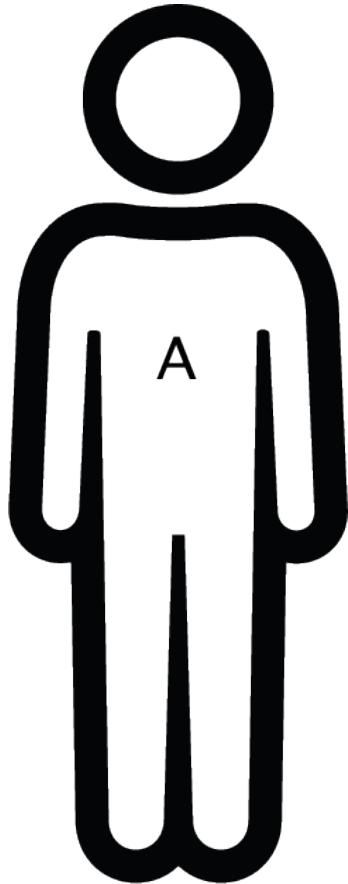
...work...

```
$ git log --oneline
a8fcraf Everything final works.
017cb84 Ugh...broke the damn tests.
e5dc861 It's working. Yippee.
7f89b77 Stupid IE...try again.
6f65fa4 Try to make this work.
```



```
$ git checkout develop
```

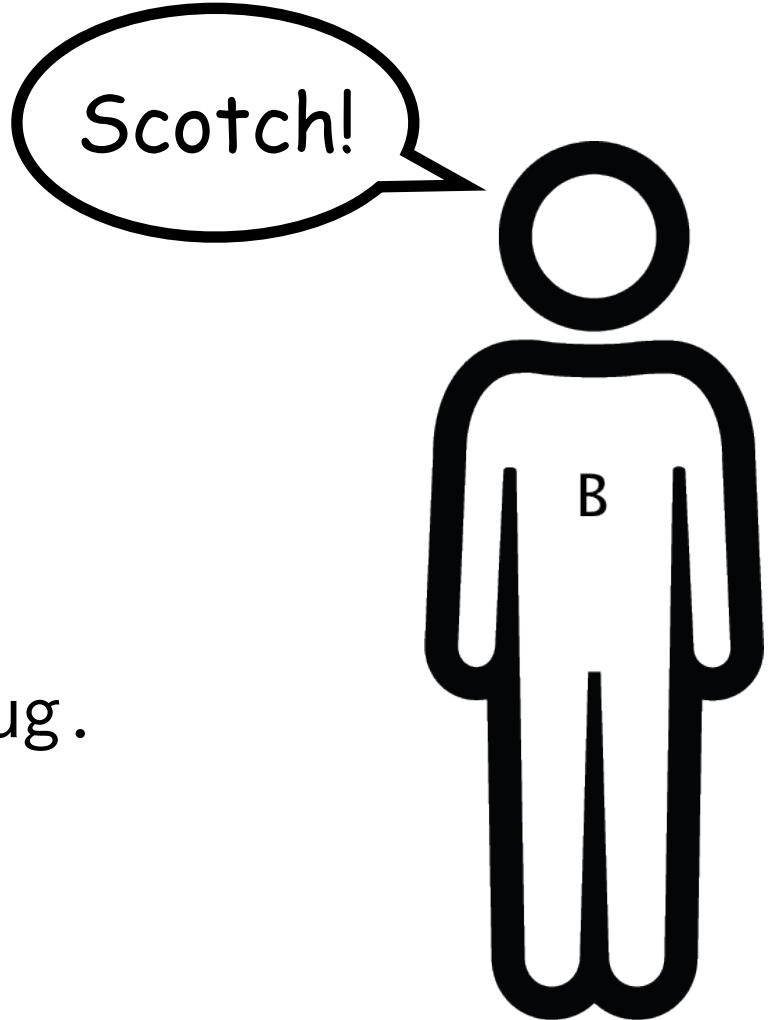
```
$ git merge --squash single-page
Updating 43d235d..a8fcraf
Fast-forward
Squash commit -- not updating HEAD
single-page.php | 7 ++++++-
 1 file changed, 6 insertions(+),
 1 deletion(-)
```



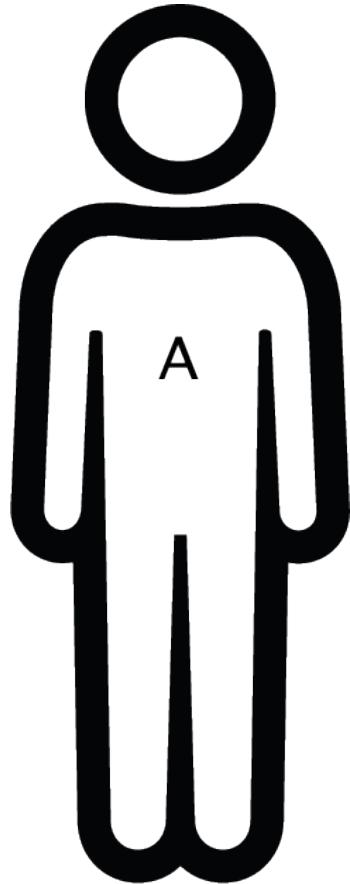
```
$ git status
# On branch develop
# Changes to be committed:
#   (use "git reset HEAD <file>..." to unstage)
#
# modified:   single-page.php
#
$ git commit -am "Fix single page
bug."
```

```
$ git checkout develop
$ git pull

$ git log --oneline
9d3a948 Fix single page bug.
43d235d Add cats.
```



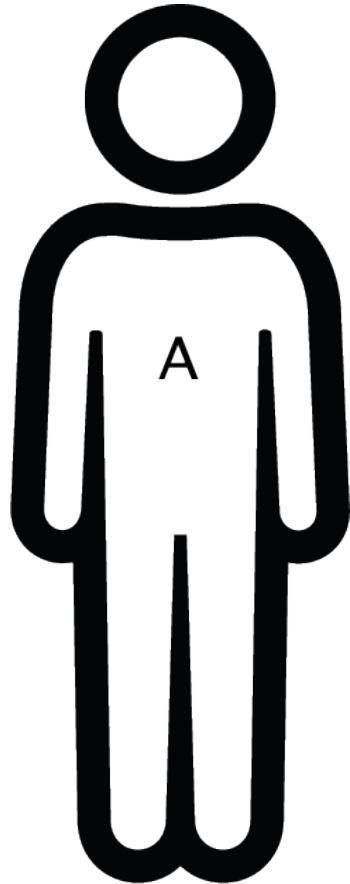
```
git merge --no-ff
```



```
$ git checkout -b infinite-scroll
```

...work...

```
$ git log --oneline
3941a47 Style IS spinner.
ccd11d4 Style IS button.
daaf241 Add IS code.
```



```
$ git checkout develop
```

```
$ git merge infinite-scroll
```

```
Updating 43d235d..3941a47
```

```
Fast-forward
```

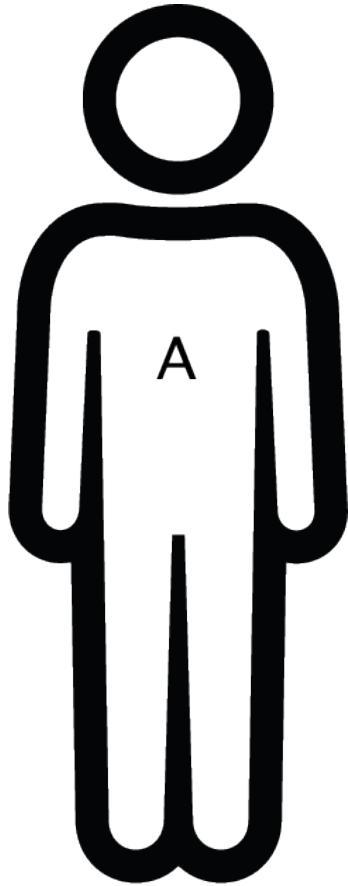
```
functions.php | 1 +
```

```
style.css | 1 +
```

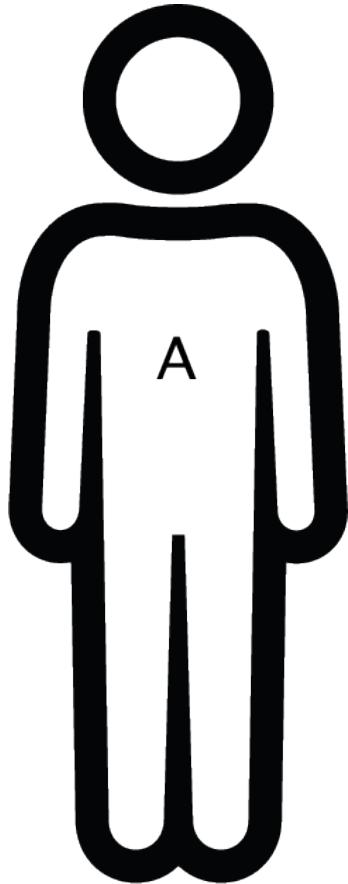
```
2 files changed, 2 insertions(+)
```

```
create mode 100644 functions.php
```

```
create mode 100644 style.css
```



```
$ git log --oneline --graph
* 3941a47 Style IS spinner.
* ccd11d4 Style IS button.
* daaf241 Add IS code.
* 43d235d Add cats.
```



```
$ git checkout develop
```

```
$ git merge --no-ff infinite-scroll  
(...prompt for merge commit...)
```

Merge made by the 'recursive'
strategy.

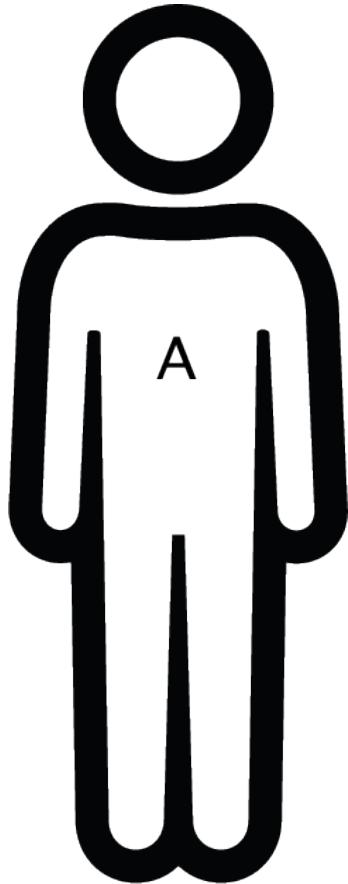
```
functions.php | 1 +
```

```
style.css | 1 +
```

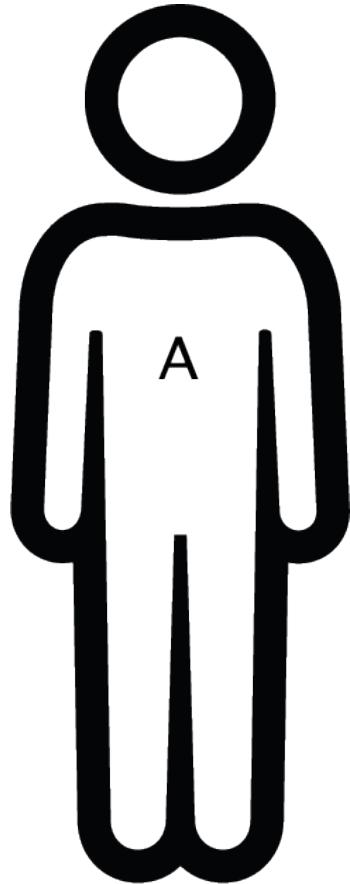
```
2 files changed, 2 insertions(+)
```

```
create mode 100644 functions.php
```

```
create mode 100644 style.css
```



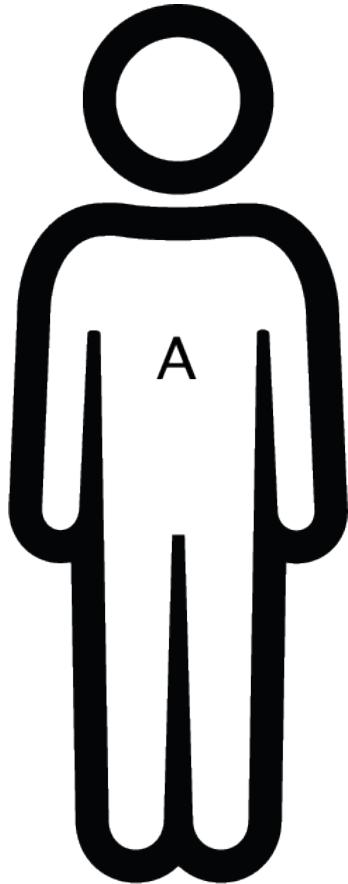
```
$ git log --oneline --graph
* 5851450 Merge branch 'infinite-
scroll' into develop
  |\ \
  | * 3941a47 Style IS spinner.
  | * ccd11d4 Style IS button.
  | * daaf241 Add IS code.
  | /
* 43d235d Add cats.
```



```
$ git checkout -b issue-321
```

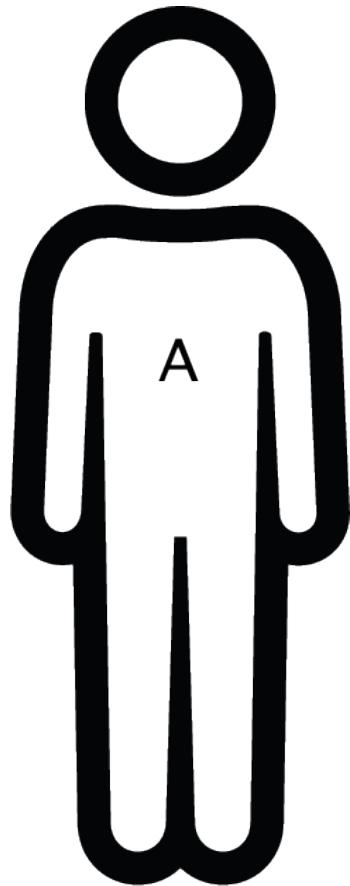
...work...

```
$ git log --oneline  
6b87454 Fix notice.
```



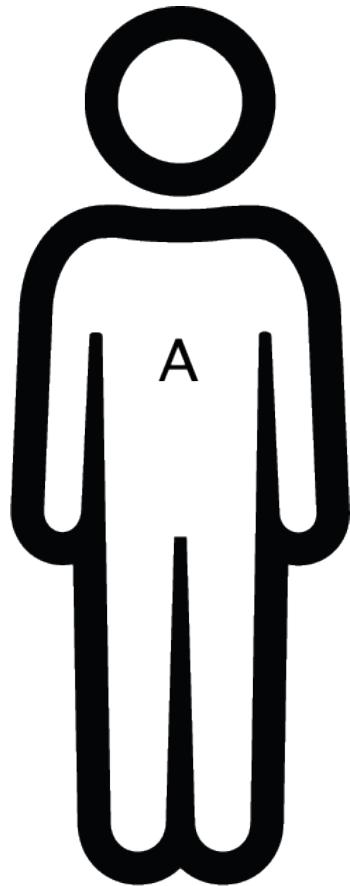
```
$ git checkout develop
```

```
$ git merge --no-ff issue-321
(...prompt for merge commit...)
Merge made by the 'recursive'
strategy.
functions.php | 2 +-  
1 file changed, 1 insertion(+),
1 deletion(-)
```



```
$ git log --oneline --graph
*   eed1334 Merge branch 'issue-321'
      into develop
      |
      | * 6b87454 Fix notice.
      |
      * 5851450 Merge branch 'infinite-
        scroll' into develop
      |
      | * 3941a47 Style IS spinner.
      | * ccd11d4 Style IS button.
      | * daaf241 Add IS code.
      |
      * 43d235d Add cats.
```

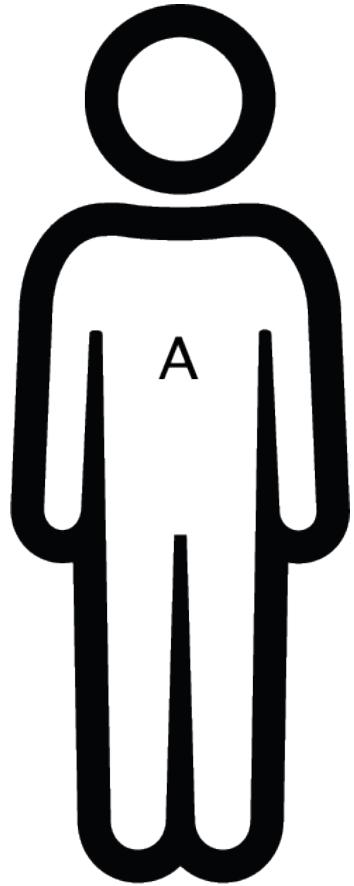
```
git rebase -i
```



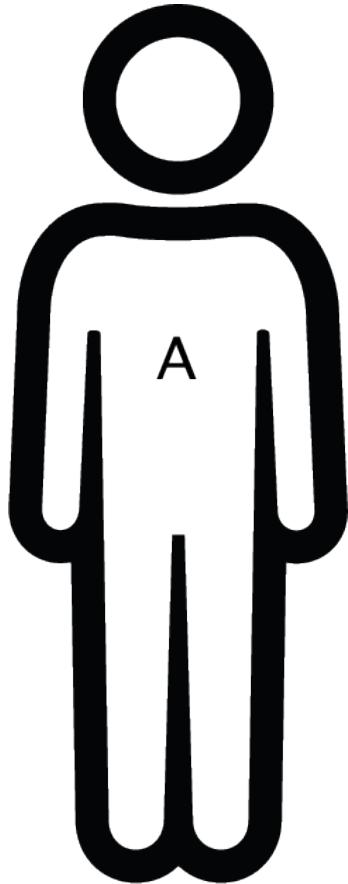
```
$ git checkout -b single-page
```

...work...

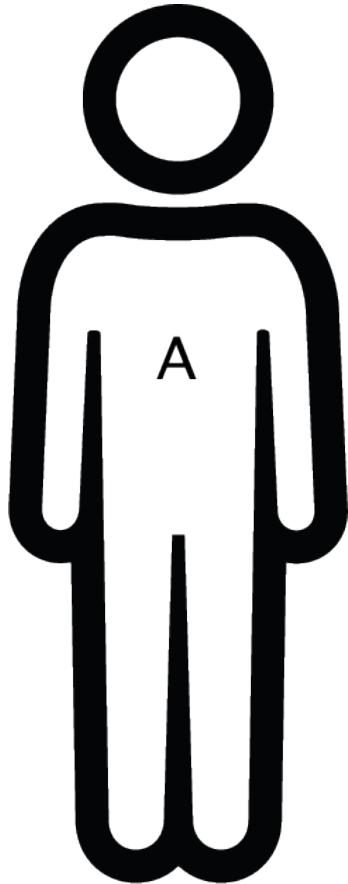
```
$ git log --oneline
a8fcraf Everything final works.
017cb84 Ugh...broke the damn tests.
e5dc861 It's working. Yippee.
7f89b77 Stupid IE...try again.
6f65fa4 Try to make this work.
```



```
$ git checkout single-page
$ git rebase -i HEAD~5
```



pick 6f65fa4 Try to make this work.
pick 7f89b77 Stupid IE...try again.
pick e5dc861 It's working. Yippee.
pick 017cb84 Ugh...broke the damn
tests.
pick a8fcraf8c Everything final works.



Commands:

p, pick = use commit

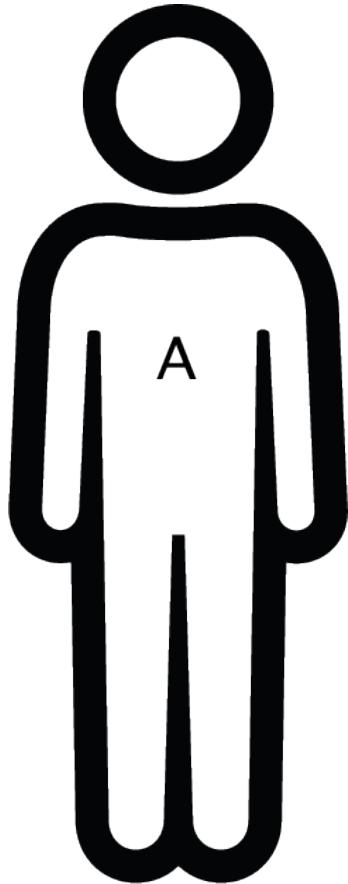
r, reword = use commit, but edit the commit message

e, edit = use commit, but stop for amending

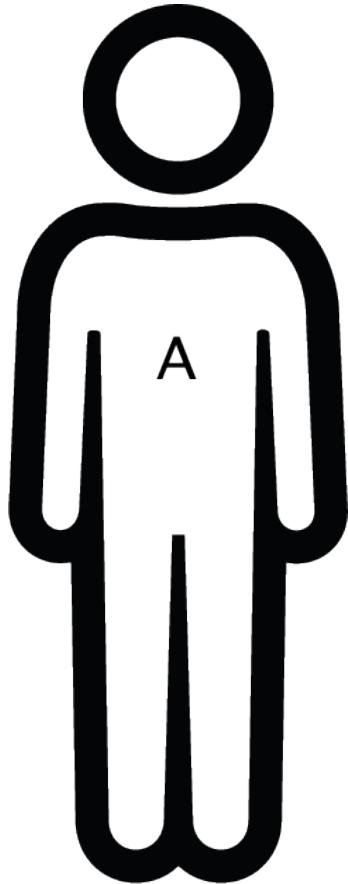
s, squash = use commit, but meld into previous commit

f, fixup = like "squash", but discard this commit's log message

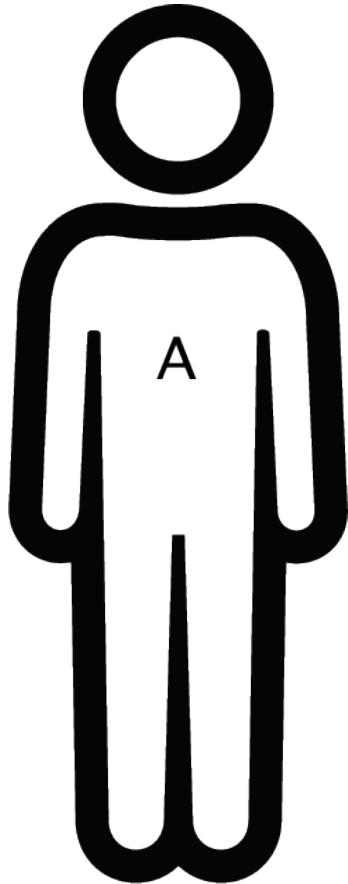
x, exec = run command (the rest of the line) using shell



pick 6f65fa4 Try to make this work.
pick 7f89b77 Stupid IE...try again.
pick e5dc861 It's working. Yippee.
pick 017cb84 Ugh...broke the damn
tests.
pick a8fcraf8c Everything final works.

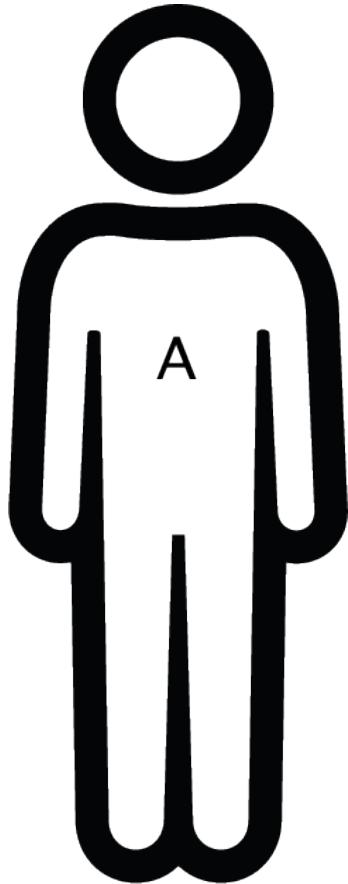


```
pick 6f65fa4 Try to make this work.
s 7f89b77 Stupid IE...try again.
s e5dc861 It's working. Yippee.
s 017cb84 Ugh...broke the damn
      tests.
s a8fcraf8c Everything final works.
```



(...prompt for commit message...)
“Fix single page bug.”

```
$ git log --oneline  
dab5bdb Fix single page bug.  
43d235d Add cats.
```

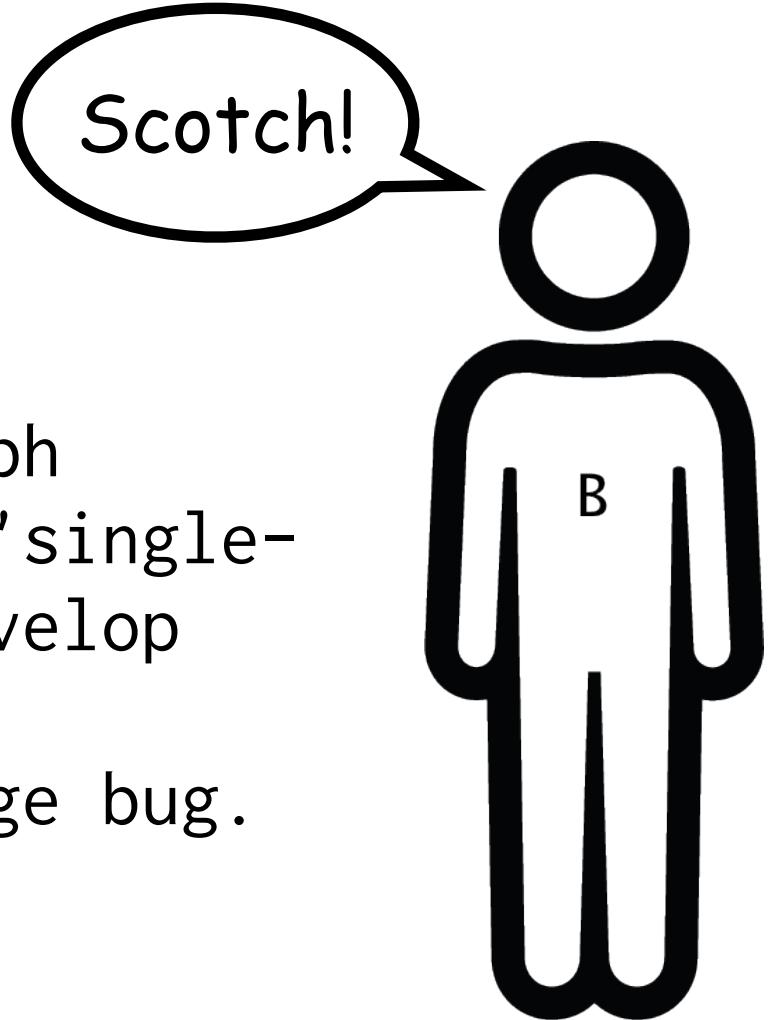


```
$ git checkout develop
$ git merge --no-ff
(...prompt for merge commit...)
Merge made by the 'recursive'
strategy.

single-page.php | 7 ++++++-
1 file changed, 6 insertions(+),
1 deletion(-)
```

```
$ git checkout develop  
$ git pull
```

```
$ git log --oneline --graph  
* b0f7d80 Merge branch 'single-  
  page' into develop  
| \  
| * dab5bdb Fix single page bug.  
| /  
* 43d235d Add cats.
```



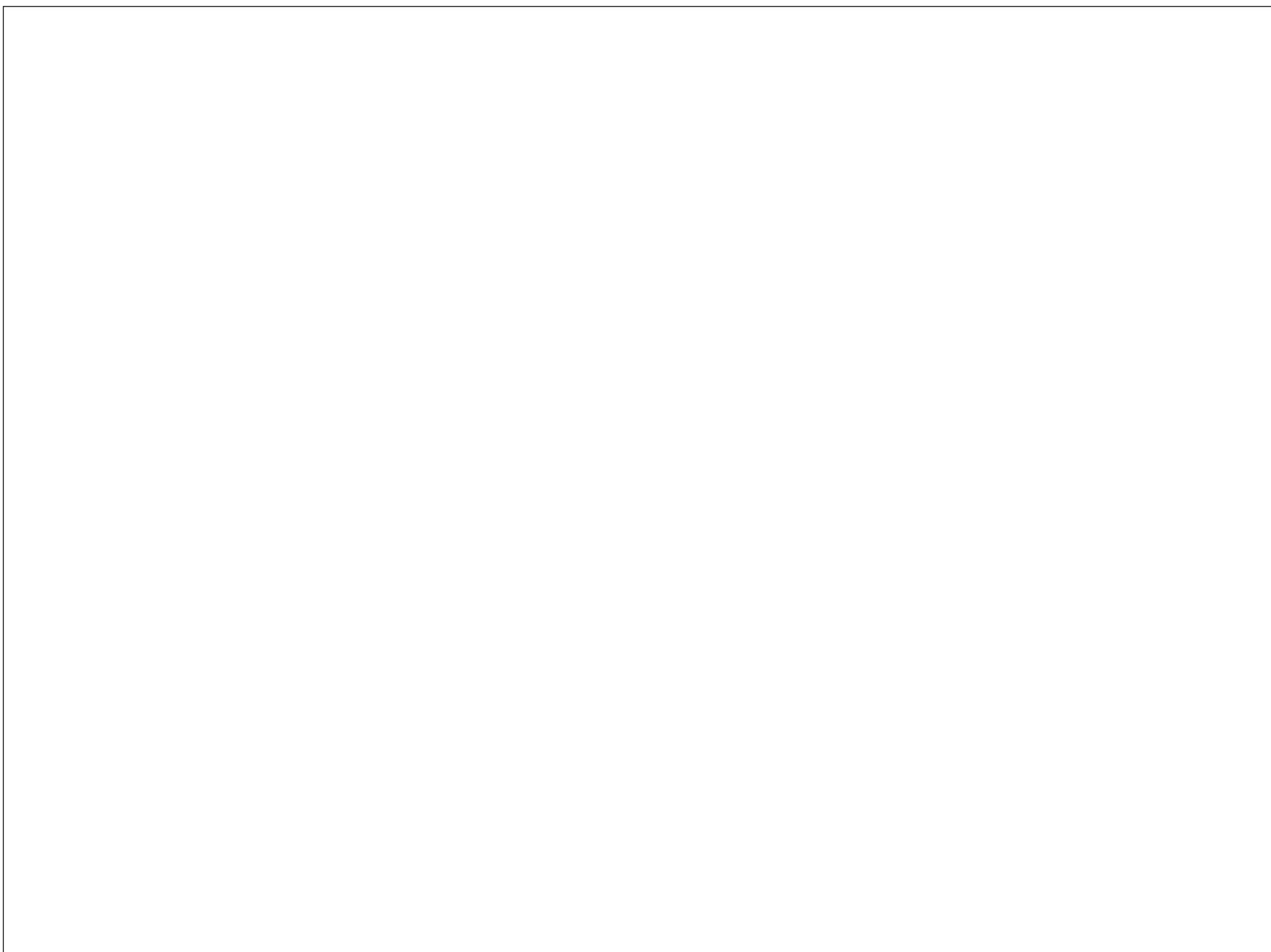
“I’ll always introduce regressions *all of the time*.”

git bisect

P A R E N T A L

A D W I S O R Y

E X P L I C I T C O N T E N T



Featured May 2, 2013

An interesting yet short story about travelling

Even the all-powerful and so Pointing has no control about the blind texts it is an almost unorthographic life One day however a small line. The Big Oxmox advised her not to do so, because there were thousands of bad Commas, wild Question Marks and devious Semikoli, but the Little Blind Text didn't listen. She packed her seven versalia, put her initial into the belt and made herself on the way. When she reached the first hills of the Italic Mountains, she had a last view back on...

[→ Read more](#)



May 1, 2013

Driving around in the great Australian outback

Far far away, behind the word mountains, far from the countries Vokalia and...



May 2, 2013

Winding roads all from the sky

A wonderful serenity has taken possession of my entire soul, like these sweet mornings of spring which I enjoy with my whole...

[→ Read more](#)



April 30, 2013

Scenes from this summer

One morning, when Gregor Samsa woke from troubled dreams, he found himself transformed in his bed into a horrible...

About

Like you, I used to think the world was this great place where everybody lived by the same standards I did, then some kid with a nail showed me I was living in his world, a world where chaos rules not order, a world where righteousness isn't rewarded.

Why don't they know. If they don't know, that means we never told anyone. And if we never told anyone it means we never made it back. Hence we die down here. Just as a matter of deductive logic.

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[August 2012](#)

[March 2012](#)

[February 2012](#)

[January 2012](#)

Snap.

Featured May 2, 2013

An interesting yet short story about travelling

Even the all-powerful and so Pointing has no control about the blind texts it is an almost unorthographic life One day however a small line. The Big Oxmox advised her not to do so, because there were thousands of bad Commas, wild Question Marks and devious Semikoli, but the Little Blind Text didn't listen. She packed her seven versalia, put her initial into the belt and made herself on the way. When she reached the first hills of the Italic Mountains, she had a last view back on the skyline of her hometown Bookmarksgrove, the headline of Alphabet Village and the subline of her own road, the Line Lane.

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May 2, 2013

Winding roads all from the sky

A wonderful serenity has taken possession of my entire soul, like these sweet mornings of spring which I enjoy with my whole heart. I am alone...

→ Read more



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Featured May 2, 2013



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wptrunk Dev



Featured March 15, 2013

Featured Image (Vertical)

A shorter excerpt needs to be loaded here when an image is visible. A shorter excerpt needs to be loaded here when...

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Featured March 15, 2013

Featured Image (Horizontal)

A shorter excerpt needs to be loaded here when an image is visible. A shorter excerpt needs to be loaded here when...

→ [Read more](#)

69428ed Add minified version of theme.js
b8cb17e Remove admin.js
9ddcc30 Minify theme.js
5a3c57d Reinstate dotdotdot.
c1307e8 Add "content" ID for proper Infinite
Scroll functioning.
183da5b Add CSS minification to Gruntfile.
dfa78a0 Tidying page styles.
bc6b515 Tidying styles.
e59c755 Adding Homepage to date template.
Refs.
49cfa45 Tidying grid.
...
395f58d Use Responsive Nav for the nav menu.

git checkout 395f58d

≡ Show Menu

wptrunk Dev

...



Featured March 15, 2013

Featured Image (Horizontal)

A shorter excerpt needs to be loaded here when an image is visible. A shorter excerpt needs to be loaded here when an image is visible. A shorter excerpt needs to be loaded here when an image is visible. A shorter excerpt needs to be loaded here when an image is visible. A shorter excerpt needs to be loaded here when an image is visible. A shorter excerpt needs to be loaded here when an image is visible. A shorter...

Featured January 7, 2013

Sticky

This is a sticky post. There are a few things to verify: The sticky post should be

June 24, 2013

Scheduled

This post is scheduled to be published in the future. It should not be displayed by

37 possible points of failure

```
$ git bisect start
$ git bisect bad
$ git bisect good 395f58d
Bisecting: 17 revisions left to test after
this (roughly 4 steps)
[cb106f4...] s/linked in/linkedin
```

≡ Show Menu

vptrunk Dev

...



Featured March 15, 2013

Featured Image (Horizontal)

A shorter excerpt needs to be loaded here when an image is visible. A shorter excerpt needs to be loaded here when an image is visible. A shorter excerpt needs to be loaded here when an image is visible. A shorter excerpt needs to be loaded here when an image is visible. A shorter excerpt needs to be loaded here when an image is visible. A shorter excerpt needs to be loaded here when an image is visible. A shorter...



Featured January 7, 2013

Sticky

This is a sticky post. There are a few

June 24, 2013

Scheduled

This post is scheduled to be published in

```
$ git bisect bad
Bisecting: 8 revisions left to test after
this (roughly 3 steps)
[0b81370...] Automatically generate a
custom hover color for the primary color.
```

```
$ git bisect bad
Bisecting: 4 revisions left to test after
this (roughly 2 steps)
[78b749b...] Use better function for
getting page template.
```

```
$ git bisect bad
Bisecting: 1 revision left to test after
this (roughly 1 step)
[a3980b2...] Styling menu.
```

```
$ git bisect bad
Bisecting: 0 revisions left to test after
this (roughly 0 steps)
[d966e74...] Adding menu styles.
```

```
$ git bisect bad
d966e74... is the first bad commit
commit d966e74...
Author: johndoe <john@doe.com>
Date:   Sat Apr 27 12:07:38 2013 +1000
```

Adding menu styles.

```
:040000 040000
60984d4fd7fc433b55b42290577ec9bc1e65cb9c
18ad5a3e2ca75ade051c2c0f27bca349ec82d62d
M source
```

```
$ git bisect reset
```

≡ Show Menu 

vptrunk Dev

...



HORIZONTAL
FEATURED IMAGE

Featured March 15, 2013

Featured Image (Horizontal)

A shorter excerpt needs to be loaded here when an image is visible. A shorter excerpt needs to be loaded here when an image is visible. A shorter excerpt needs to be loaded here when an image is visible. A shorter excerpt needs to be loaded here when an image is visible. A shorter excerpt needs to be loaded here when an image is visible. A shorter...

Featured January 7, 2013

Sticky

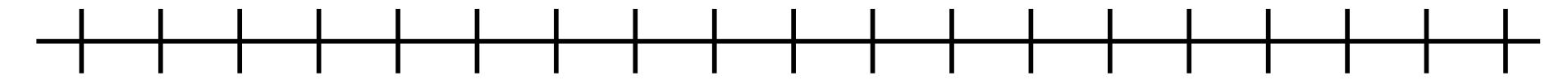
This is a sticky post. There are a few

June 24, 2013

Scheduled

This post is scheduled to be published in

```
.js #snap-nav {  
  clip: rect(0 0 0 0);  
  max-height: 0;  
  position: absolute;  
  display: block;  
-  overflow: hidden;  
  zoom: 1;
```



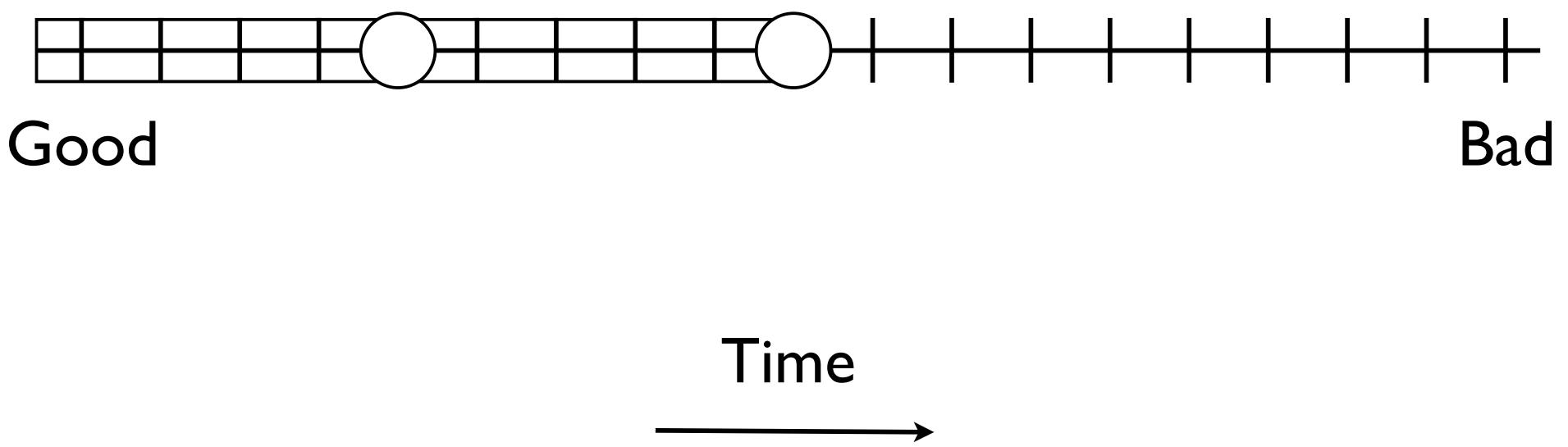
Time

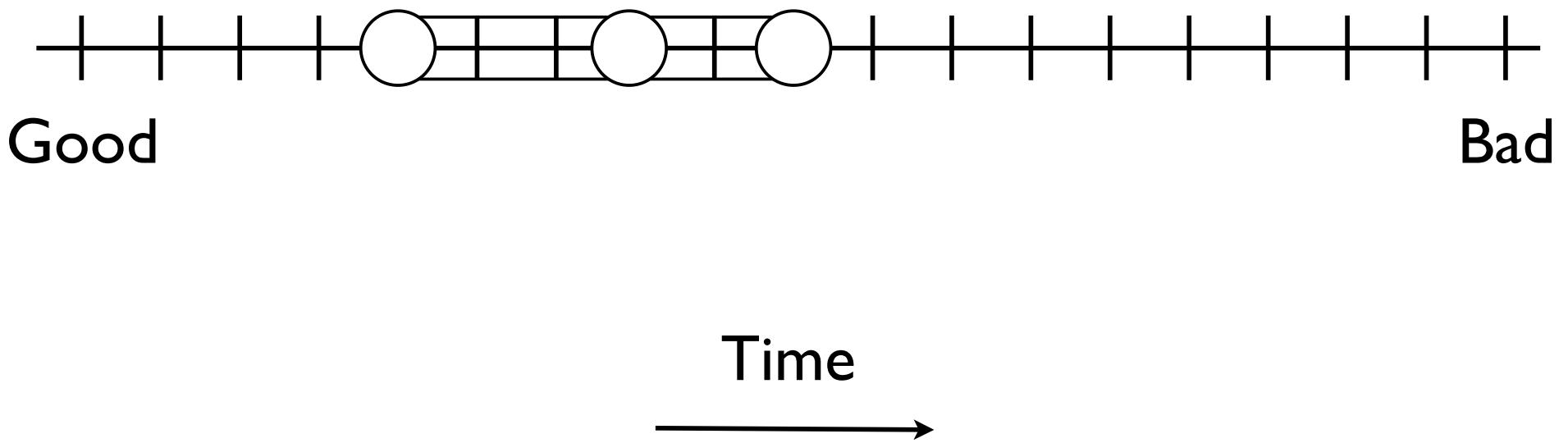


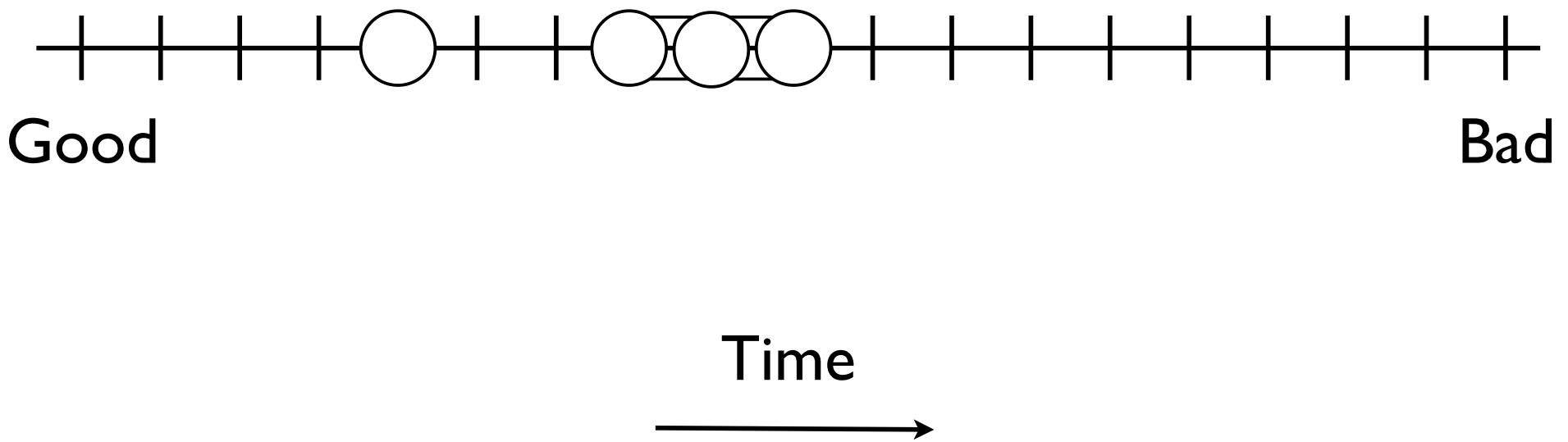


Time

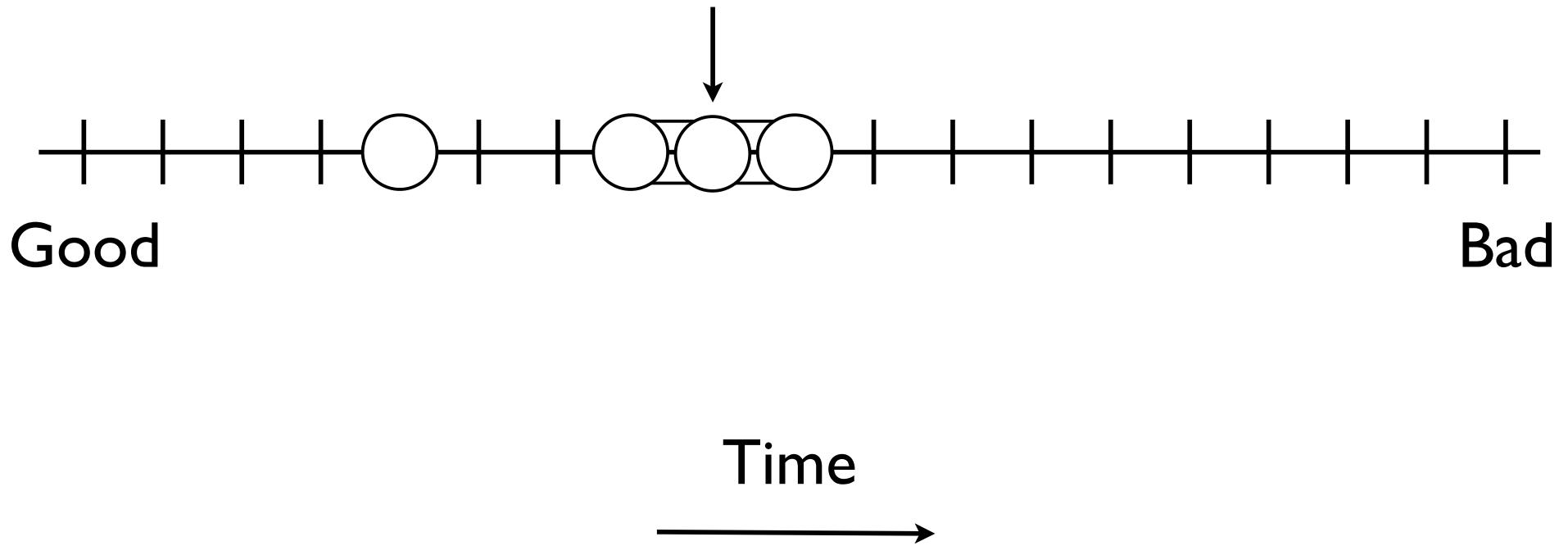








Bad Commit



You're cured

THE
THEME FOUNDRY

Zack Tollman | [@tollmanz](https://twitter.com/tollmanz)