



# Telling stories through your commits

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Our key challenge is  
managing complexity

# Naming

# Code design

# Refactoring

# Automated tests

**"The primary goal of a software developer should be to communicate their intent to future developers"**

**- Louise Crow**

# Version control system

**Your commit history is...**

Kept forever

**Always up to date**

# Searchable

```
$ git log --grep='Commit contents'
```

```
$ git log -S 'Diff contents'
```

```
$ git blame
```

2b66b32a (Prathamesh Sonpatki		11	gem 'mocha', '~> 0.14', require: false
2b66b32a (Prathamesh Sonpatki		12	
7891cbf4 (Lee Reilly		13	gem 'rack-cache', '~> 1.2'
58009ace (Carlos Antonio da Silva		14	gem 'jquery-rails', github: 'rails/jquer
fa5a1b93 (Joshua Peek		15	gem 'coffee-rails', '~> 4.1.0'
74a9b377 (Rafael Mendonça França		16	gem 'turbolinks'
58009ace (Carlos Antonio da Silva		17	gem 'arel', github: 'rails/arel', branch

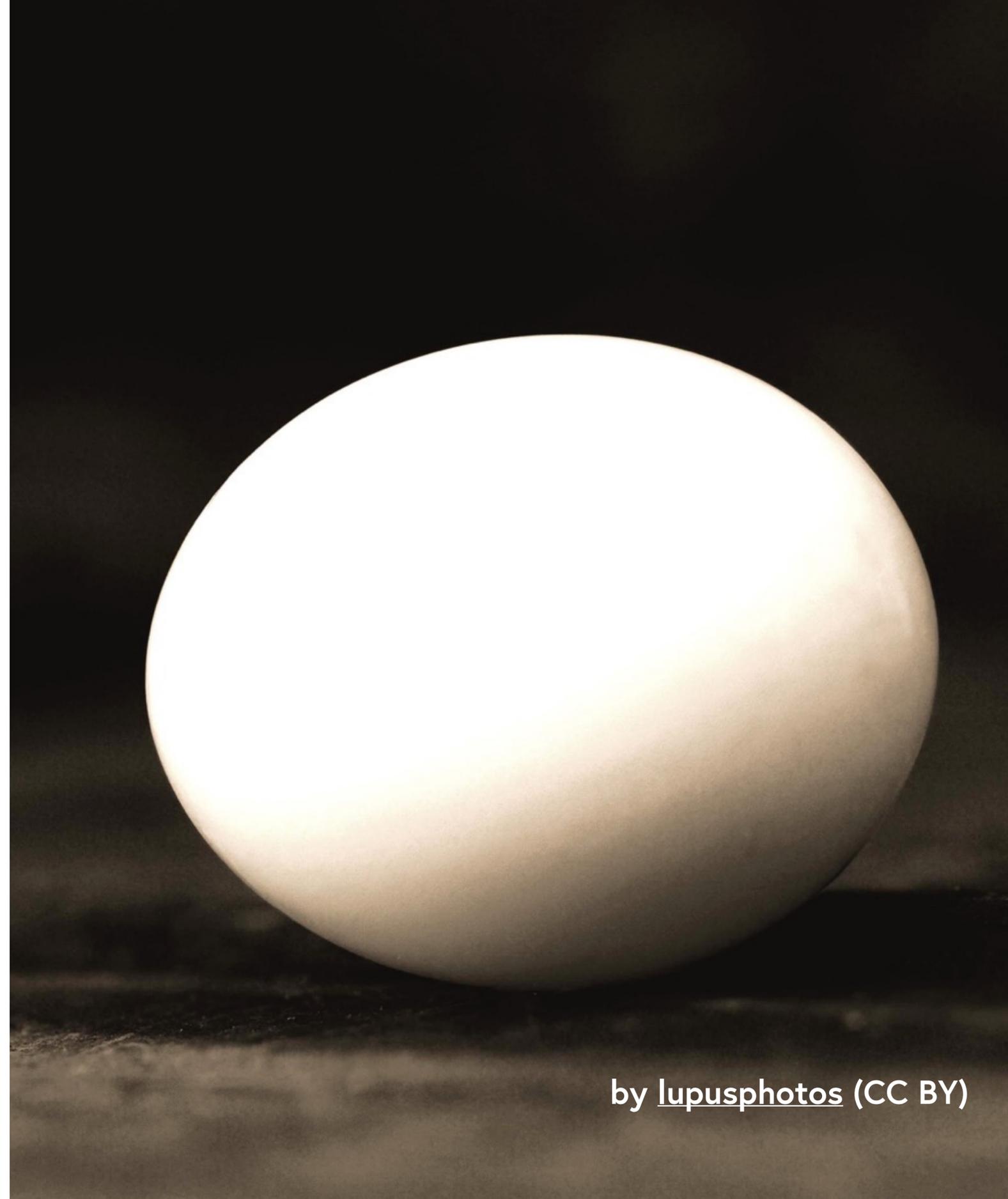
**"Every line of code is always  
documented"**

**- Mislav Marohnić**

from <http://mislav.uniqpath.com/2014/02/hidden-documentation/>

# Three principles

# 1. Make atomic commits



by [lupusphotos](#) (CC BY)

```
$ git log --shortstat  
commit: [REDACTED]  
Author: [REDACTED]  
Date:   [REDACTED]
```

**Bug fixes and WordPress 4.0.1 update**

```
1377 files changed,  
175405 insertions(+),  
248 deletions(-)
```

**What if this commit had  
been split up?**

**21dfe89** Fix category page redirects  
**e275479** Fix deletion of author avatars  
**d824e02** Fix H2 headers on mobile  
**f8e36d4** Fix footer floating bug  
**d972537** Fix blog author avatar upload  
**d26e788** Remove unused author pages  
**7b91091** Fix blog feed  
**2f05036** Fix mixed content warnings  
**ed21e18** WordPress 4.0.1 update

# Minimum viable commit

**Avoid 'and' in commit  
messages**

LOG

Page No 58594

291:20:00:00

Engineer E. DOWSE

Project LM-5

Location

Time 7:48 TO

Title 61015 EPS SUPPORT Date 10-17-68

291:20:31:40

NOTIFIED GPS & EPO THEY NO LONGER HAD TO TAKE CURRENT READINGS HOWEVER ANY HIGH CURRENT EXCURSION SHOULD BE NOTED.

291:22:02

1 RO CHART PAPER SHOWS - CDR GLITCH AND A 1 VOLT DROP ON THE CDR BUS. ECS WAS TROUBLE SHOOTING AT THE TIME. (TDR #6 61015 LMS) GLITCH OCCURRED JUST WHEN THE SUIT FANS WERE TURNED ON.

292:03:51:00

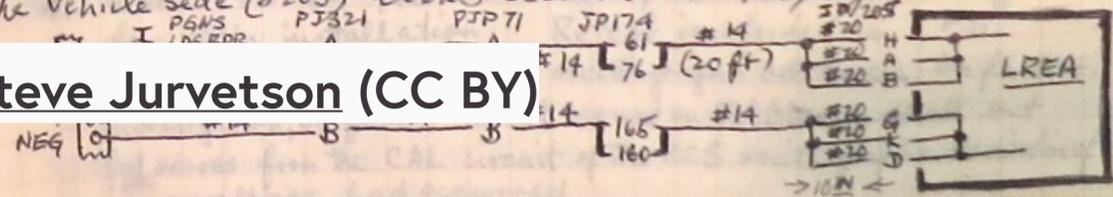
RAM TPS 35-974 AND SUCCESSFULLY RETESTED THE DOCKING LIGHTS AFTER INSTALLATION OF DOCKING LIGHTS OVER THEIR ASSOCIATED THERMAL BLANKETS.

292:05:25:00

CRT PG 05 STANDARD WORDS DISAPPEARED. C/O RECYCLED THEIR PCM CB AND THE PROBLEM CLEARED. VERIFIED WITH THE IRO THAT NO GLITCHES WERE OBSERVED ON THE VEHICLE BUSES DURING THIS PERIOD.

A. Hecht Day Shift 8am - 8pm 10-18-68

- 1. OCP 61015 IN HOLD. COMM IS trouble shooting.
- 2. Solved TDR #1 of TPS 35-752 (Pwr Interlock shut down)
- 3. At 1530, the wires in pigtail of LREA, P205, were charred & CB tripped. I did not get a look at the charred wires since there were too many people around LREA and all personnel not immediately involved were ordered to leave. Visually, the damage was confined to the LREA side (P205). The vehicle side (5205) looks clean. As a test, high pot check is advisable.



# 2. Write good commit messages

by Steve Jurvetson (CC BY)

**What does good look  
like?**

**Short one line title**

**Longer description of what the change does (if the title isn't enough).**

**An explanation of why the change is being made.**

**Perhaps a discussion of context and/or alternatives that were considered.**

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Correct the colour of FAQ link in course notice footer

PT: <https://www.pivotaltracker.com/story/show/84753832>

In some email clients the colour of the FAQ link in the course notice footer was being displayed as blue instead of white. The examples given in PT are all different versions of Outlook. Outlook won't implement CSS changes that include `!important` inline[1]. Therefore, since we were using it to define the colour of that link, Outlook wasn't applying that style and thus simply set its default style (blue, like in most browsers). Removing that `!important` should fix the problem.

[1] <https://www.campaignmonitor.com/blog/post/3143/outlook-2007-and-the-inline-important-declaration/>



3.  
Revise your  
development  
history before  
sharing

```
$ git rebase --interactive
```

**Remove, reorder, edit,  
merge and split commits**

**324d079 Fix typo in "Add Foo"**  
**ab2189d Remove Bar**  
**2a11e7d Add Foo**

**1bd241c Remove Bar**  
**773e345 Add Foo**

- 1. Make atomic commits**
- 2. Write good commit messages**
- 3. Revise your history before sharing**

**"I love our commit messages, I don't think I've worked on a codebase where it's easier to answer the question, 'huh, why is this code here?'"**

How do I persuade my  
team to adopt these  
practices?

**Won't it take lots of  
discipline to get a long  
term payoff?**

**These practices make it  
simpler for individual  
developers now**

- 1. Make atomic commits**
- 2. Write good commit messages**
- 3. Revise your history before sharing**

**Thank you**

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