



DevOps for Defense

December 2018

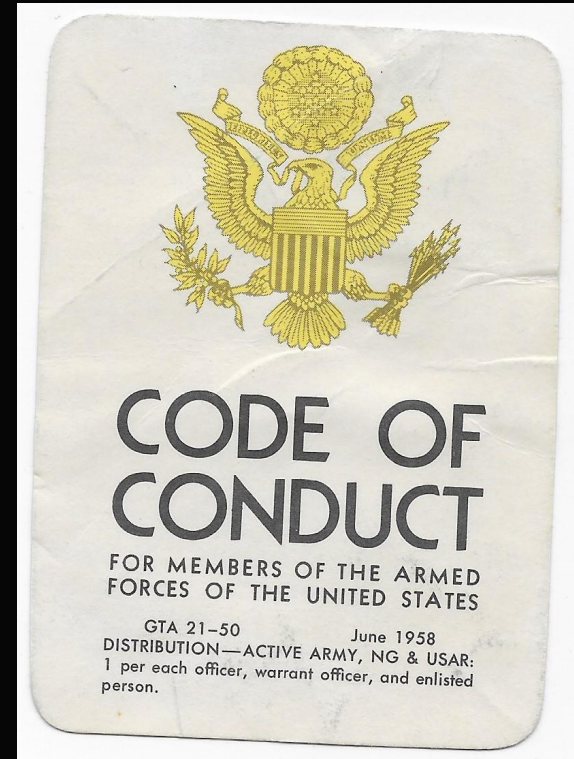
Knowledge is Powerful?
Moving Knowledge at the Speed of DevOps

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StackOverflow.com

<https://www.meetup.com/DevOps-for-Defense/>
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DevOps for Defense Meetup: Code of Conduct

- UNCLASSIFIED ONLY!!!!
- Treat each other with respect and professionalism.
- Do not talk about private, sensitive, or proprietary work.
- Do talk about your experiences, needs, desires to improve work in our domain.
- Do share your thoughts.
- Do learn from others.
- Do respect & tip your bartenders!



Celebrating 1 Year of DO4D!



Thank you all for your support!!!



DevOps for Defense Meetup Presents



stackoverflow

Over **50 million** Unique Monthly Visitors

Over **17 Million** Questions Answered

<https://stackoverflow.com>

Thursday, December 6th @ 6PM



Rocket Republic Brewing Co
289 Production Ave, Madison, AL

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Knowledge is Powerful?



Moving Knowledge at the Speed of DevOps

Stack Overflow

- Q&A Site
 - Core site focused on developers
 - Exchange sites focused on active communities
 - Teams, Enterprise products for private communities
- 14 Million Questions
- 50+ Million Monthly Visitors
- Alexa Global Rank of 63

And a bunch of really cool people who keep it all up and moving forward

Lou Manglass (that's me)

- Was told many times about presentations, “always tell people who you are”
- Former geographer and sysadmin (seriously)
- Currently Customer Success Engineer with Stack Overflow
- Generally pretty cool person
- No Alexa ranking (neither global nor otherwise)

Communication/Knowledge Transfer



Public Domain

No School Like Old School



Clay tablet; letter from Nanni to Ea-nasir complaining that the wrong grade of copper ore has been delivered after a gulf voyage and about misdirection and delay of a further delivery; slightly damaged; 23 + 25 + 3 + 2
II. 1953,0411.71AN141562001
([CC BY-NC-SA 4.0](#))



Cuneiform Tablet: Account of Rations for Six Persons Who Were Probably Working as Messengers for the City Governor," *Michael C. Carlos Museum Collections Online*, accessed November 27, 2018, <http://carlos.digitalscholarship.emory.edu/items/show/7824>.
([CC BY-NC-SA 4.0](#))



???

Clay tablet, cuneiform. Lou Manglass ([CC BY-NC-SA 4.0](#))

Classic Tech Communication



By Jeh - I took this photo in my office using a Sony RX100-M4 camera. Previously published: (none), CC BY-SA 4.0, <https://en.wikipedia.org/w/index.php?curid=55167348>

The Era of Questions

Stack Overflow

By the Numbers

50+ Million

Monthly Visitors to Stack Overflow

51,000

Average # of Developers on Site Right Now

7 Visits

Average Per User, Each Month

14,000,000+

Questions

19,000,000+

Answers

7.5 Billion

Times a Developer Got Help

How Do We Measure Questions?



Various tools. Lou Manglass
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A Sample of Content Metrics

Question
helpfulness

Time to answer

How do I undo the most recent commits in Git?

18529



6120

I accidentally committed the wrong files to [Git](#), but I haven't pushed the commit to the server yet.

How can I undo those commits from the local repository?

[git](#) [git-commit](#) [git-reset](#) [git-revert](#)

share improve this question

edited Oct 19 at 18:02

community wiki
75 revs, 49 users 16%
[Peter Mortensen](#)

133 Warning: you should only do this if you have not yet pushed the commit to a remote, otherwise you will mess up the history of others who have already pulled the commit from the remote! – [thSoft](#) May 13 '15 at 21:18

54 Here's [a very clear and thorough post](#) about undoing things in git, straight from Github. – [Nobita](#) Jun 8 '15 at 19:39

Answer helpfulness

Activity

72 Answers

active oldest votes

1 2 3 next

20030



Undo a commit and redo

```
$ git commit -m "Something terribly misguided"      # (1)
$ git reset HEAD~                                  # (2)
<< edit files as necessary >>                      # (3)
$ git add ...                                       # (4)
$ git commit -c ORIG_HEAD                          # (5)
```

1. This is what you want to undo
2. This leaves your working tree (the state of your files on disk) unchanged but undoes the commit and leaves the changes you committed unstaged (so they'll appear as "Changes not staged for commit" in `git status`, and you'll need to add them again before committing). If you *only* want to *add* more changes to the previous commit, or change the commit message¹, you could use `git reset --soft HEAD~` instead, which is like `git reset HEAD~` (where `HEAD~` is the same as `HEAD~1`) but leaves your existing changes staged.
3. Make corrections to working tree files.
4. `git add` anything that you want to include in your new commit.
5. Commit the changes, reusing the old commit message. `reset` copied the old head

<https://stackoverflow.com/questions/927358/how-do-i-undo-the-most-recent-commits-in-git?page=1&tab=votes#tab-top>
[Creative Commons Attribution-Share Alike](#)

Measuring Reputation

- **You gain reputation when:**
 - question is voted up: +5
 - answer is voted up: +10
 - answer is marked “accepted”: +15 (+2 to acceptor)
 - suggested edit is accepted: +2 (up to +1000 total per user)
 - site association bonus: +100 on each site (awarded a maximum of one time per site)
- **You lose reputation when:**
 - your question is voted down: -2
 - your answer is voted down: -2
 - you vote down an answer: -1
 - one of your posts receives 6 spam or offensive flags: -100

All users start with one reputation point, and reputation can never drop below 1. Moderators may take additional remediations as well, if necessary, which may affect reputation.

This list is not complete. For more information, go to <https://stackoverflow.com/help/whats-reputation>.

But What Does it Mean

Reputation is Power

Reputation can be Earned in a Community

Reputation leads Community Members to Fast, Useful Answers

How Does it Add Value

- **On a team**

- Help your community
- Strengths are highlighted
- Can open deeper conversations

- **Across teams**

- Identify common problems
- Discover potential opportunities for work reuse
- Diversify community knowledge management

Putting it All Together

- How do you currently ask questions and get answers?
 - Do you have a dedicated place to ask questions?
 - How long does it take you to get an answer?
 - How long does it take you to get the right answer?
- How do you currently manage knowledge content?
 - Is timeliness of the content a factor?
 - Is community impact considered? How?
- Are key knowledge holders invested in the community?

This all sounds sorta familiar...

Knowledge Sharing is Powerful



Public Domain

So: is Documentation Dead?

Tell that to `man`.

It's Over!

I mean, this part is. Please hang back for questions, and don't forget the Lean Coffee sessions!

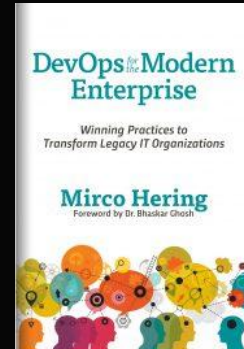
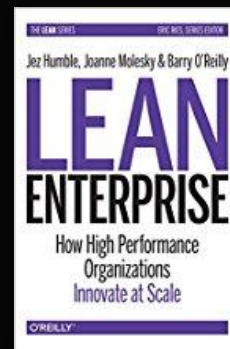
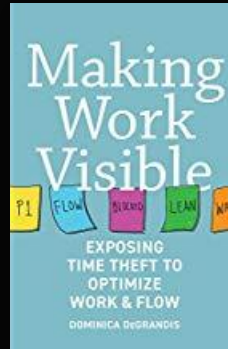
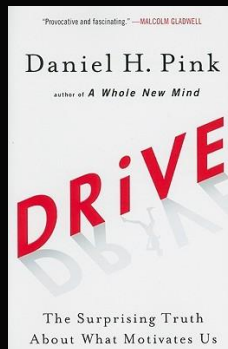
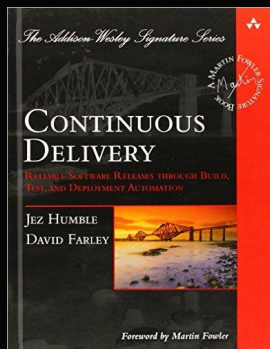
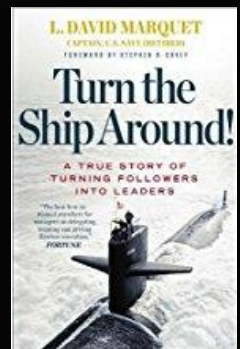
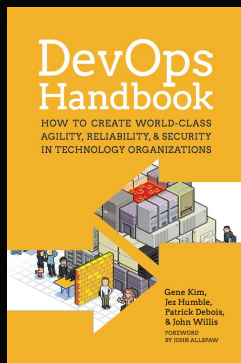
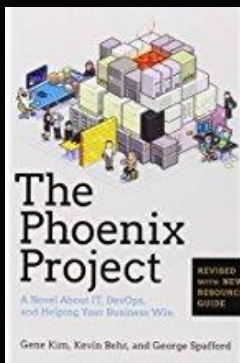
<https://stackoverflow.com>

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DevOps Resources

Books / Publications:



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Conference Presentations (YouTube):

- DevOps Enterprise Summit (DOES)
- IT Revolution
- Velocity
- GoTo



Group Exercise: Lean Coffee

1. Each table has a facilitator.
2. The facilitator has a short introduction.
3. Everyone write down questions or topics for discussion on the subject. Place them in the middle of the table.
4. The group votes on each question or topic by placing a dot on the card. 3 votes per person.
5. Cards with most dots goes first. Set a timer for 5 minutes and discuss.
6. After 5 minutes, either vote (thumbs up/down) to keep going or move on to the next card.



Topics: “Team Communication”, “Speed of Knowledge”, and “Power of Sharing”