QCon

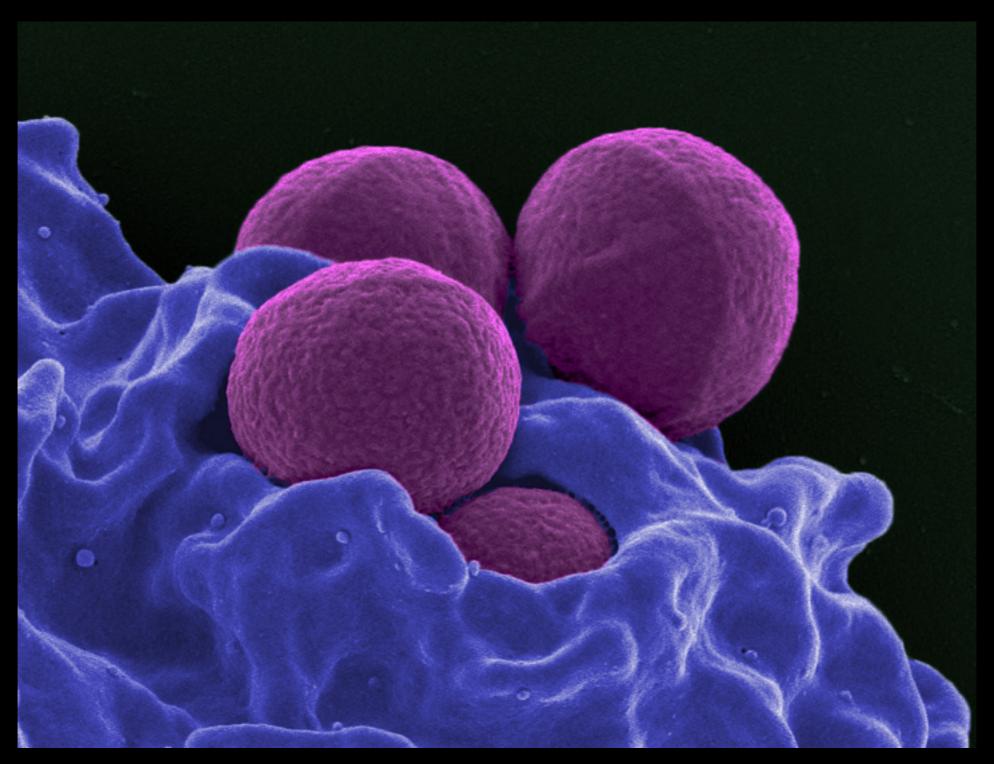
Please evaluate my talk via the mobile app!



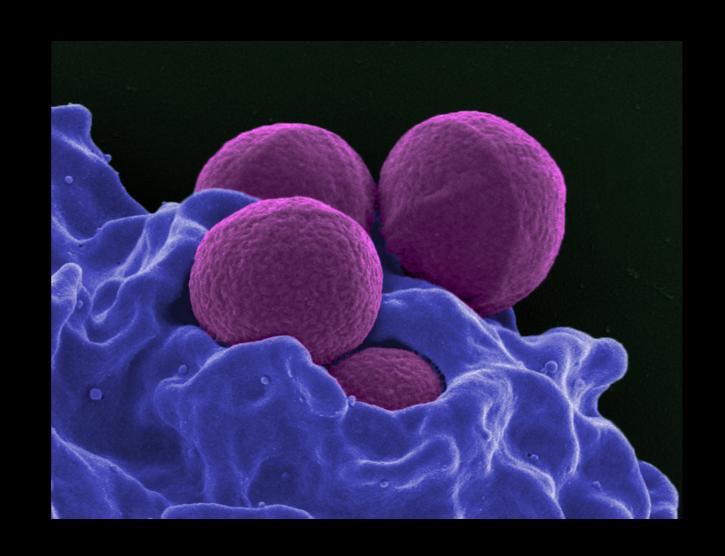
Building resilience

How outages shaped Etsy's systems

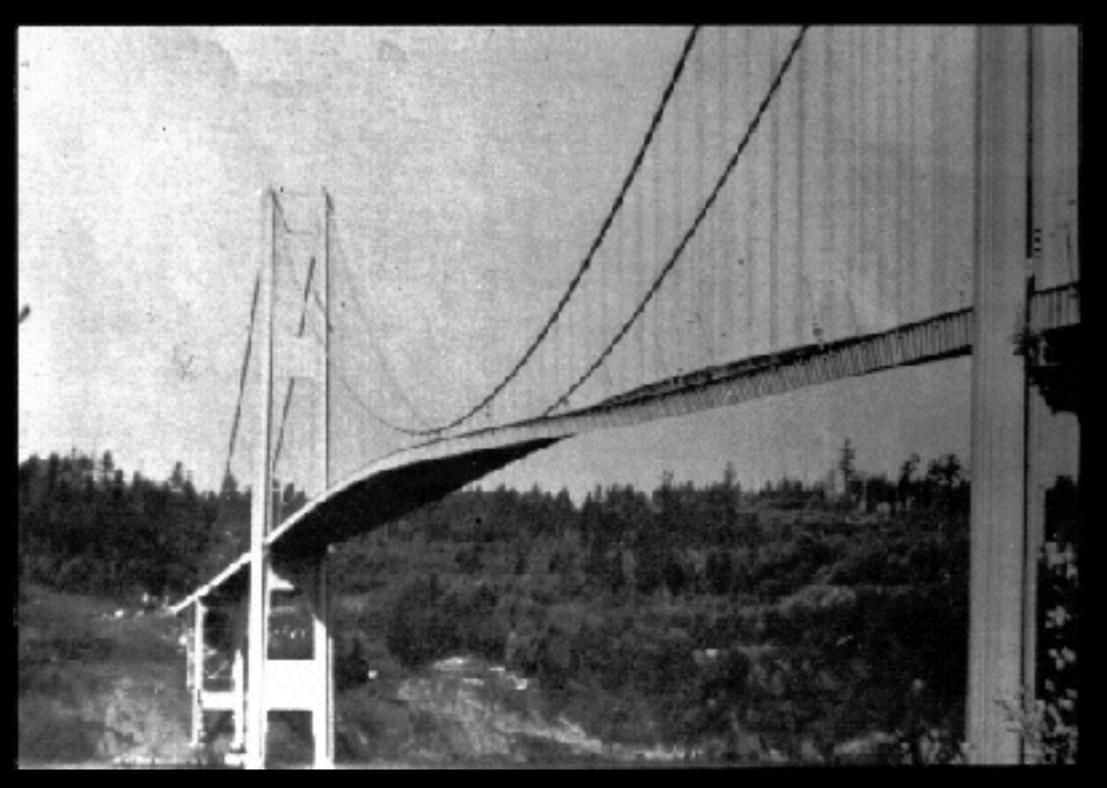
Act 1



- Actually, it's a slow process
- Iterative
- Introspective
- Horizontal and vertical development











Next generation

Current generation





Resilience Engineering



Resilience Engineering

- "To Engineer is Human""To Forgive Design"
 - Henry Petroski
- "The Field Guide to Understanding Human Error"
 "Just Culture"
 - Sidney Dekker

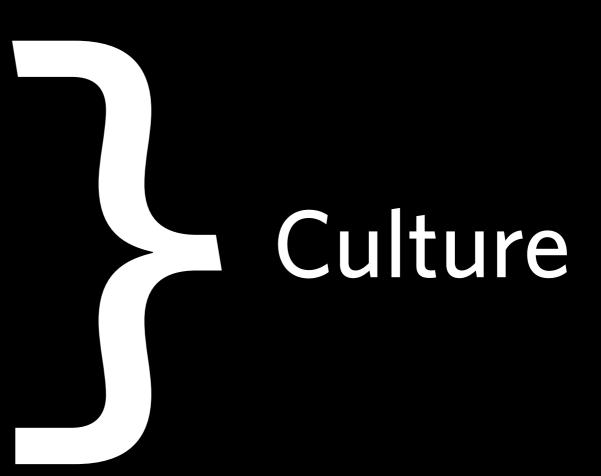
Act 2

Building resilience at Etsy

- Continuous deployment
- Metrics, metrics, metrics
- Peer review
- Postmortems

Building resilience at Etsy

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Postmortems

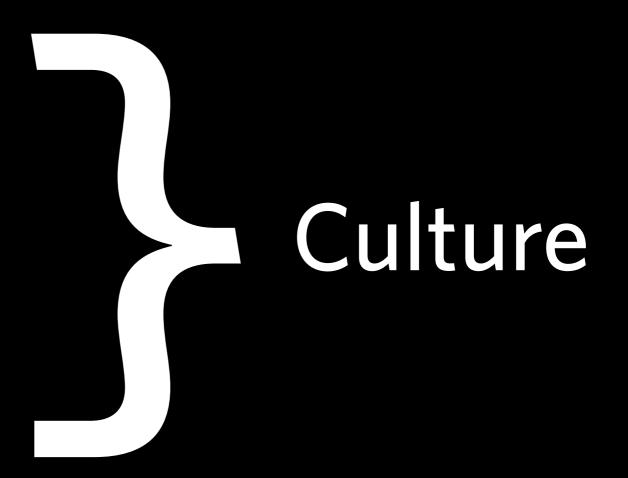
Or: How to win at failing

Constructive cultures

- No blame
- Open discussion
- Focus on improvements

Constructive cultures

- No blame
- Open discussion
- Focus on improvements



Destructive cultures

"The nail that sticks up, gets hammered down"

-JAPANESE PROVERB

The result?

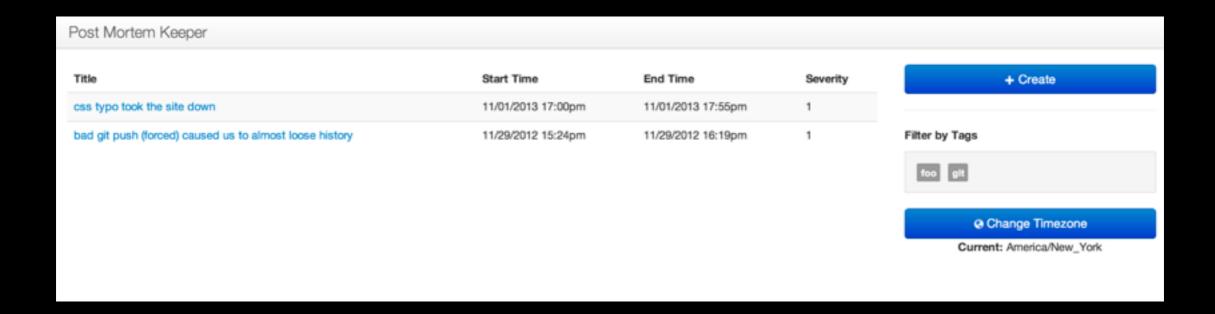
- #23: Fortune's "Top 50 best small and medium businesses to work for"
- Rapid code iterations and deploys
- Lasting relationships
- Generousity of spirit
- ...and much more

Act 3

Doing postmortems? Get Morgue

http://github.com/etsy/morgue

Morgue



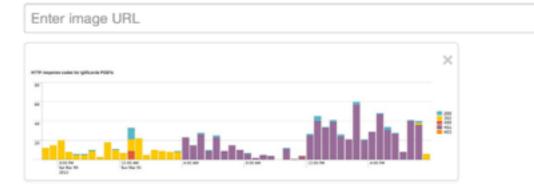
Morgue

What happened?

- 15:24 @jdoe types bad command "git push -f", hits Ctrl-C, thinks that it did not propagate (but it You can use markdown did)
- 15:?? @rob and @pat both tell @dschauenberg that there is a problem
- 15:43 push queue is put on HOLD status
- · 15:44 "do not push" email goes out to techall
- 15:46 @jdoe joins #push to work out the issue
- 15:49 @klee pushes all but one commit to master
 he was missing the most recent merge commit; @dschauenberg advocated that @klee do this push
- 15:52 @dschauenberg suggests that we use deploy03 git repo to recover
- 16:09 @schauenberg finishes backing up deploy03 git repo and does "git push -f", recovering the lost commits
 16:19 we push princess again at commit b9d6f3615f8ce02b3437977d9e46aea737ef078b and everything is peachy

Edit

Images



IRC Channel(s)



Morgue

Remediation

Enter JIRA key(s), separated by commas (i.e. CORE-2024, OPS-1453)

Create New Issue

| Key | Summary | Assignee | |
|------------|--|----------|---|
| MAYHEM-806 | detect rollbacks in git history | jpaul | × |
| MAYHEM-807 | create ability to disable push buttons in deployinator | jpaul | × |
| MAYHEM-808 | create delayed repo to track etsyweb repo | jpaul | × |
| MAYHEM-810 | track how often push -f happens | jpaul | × |
| MAYHEM-809 | prompt for push -f | jgoulah | × |

Forums

Enter link to forum post

Forum post description

Save Forum Entry

Forum Posts

Tags

Enter tags, separated by commas

Forkistan

- Mean time to detect: 0 min
- Mean time to recover: 10 mins

Yo Dawg, I Heard You Like Errors..

- Mean time to detect: 2 mins
- Mean time to recover: 15 mins

Smashing INT for Fun and Profit

- Mean time to detect: 0 min
- Mean time to recover: 4 hrs 52 mins

Apache Amnesia

- Mean time to detect: 2 hours
- Mean time to recover: 5 mins

Continuously Upgrading Databases

- Mean time to detect: 2 mins
- Mean time to recover: 1 hour (but, not really..)

Q&A

Avleen Vig Staff Operations Engineer Etsy, Inc @avleen

QCon

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