Open Source at Twitter @Remy_D | @TwitterOSS 09/2017



Agenda

Why do we use Open Source? 2

How do we Support Open Source?

3

How do we do Open Source?



Twitter's Core Values

How we approach the world:

Reach every person on the planet.

PROGRESS

Grow our business in a way that makes us proud.

Defend and respect the user's voice. ti SSENNE Co fe Ro ar

Recognize that passion and personality matter.

Seek diverse perspectives.

How we treat each other:

Communicate fearlessly to build trust. IMPACT

How we do our work:

Innovate through experimentation.

Ship it.

Be rigorous. Get it right.

Simplify.



Twitter's Core Values

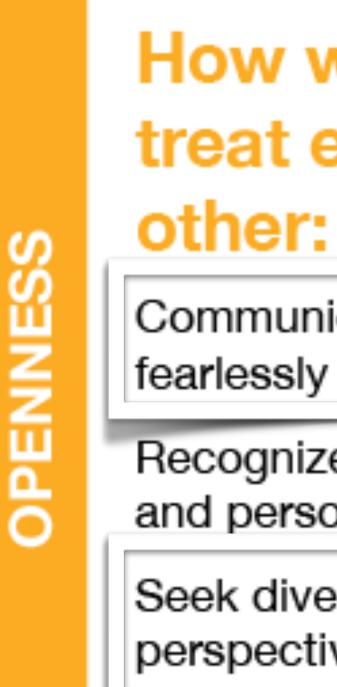
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Twitter's User Community

328VI 799/0

Monthly Active Users

http://about.twitter.com





Outside the USA

Mobile Users



Twitter's Engineering Community

Employees World-wide

http://about.twitter.com





Technical Roles



1. As a consumer/customer?

- 2. As a contributor?
- **3. As a Project Leader?**
- 4. As a business?

Why Do People Use Open Source?



#BenefitsOfOpenSource

Open sourcing improves quality. If the libraries gain traction, you will get free testing and bug fixing. And even without that, when engineers know that their code is open to public commentary, they do a better coding job. And they may actually add documentation and comments.

Open sourcing speeds up evolution. Sooner or later someone will suggest or implement an improvement which you otherwise may not have thought of.

Open sourcing may set a standard. If the libraries gain traction, YOUR standard has a chance of winning over some other standard.

Open sourcing is motivational. The developers in your company will be more motivated when their software is opened up and offered to others.

Open sourcing attracts talent. You may be able to hire talented developers who are drawn to your company exactly because you open sourced some software libraries.

Open sourcing generates favorable publicity. You may gain additional exposure in open source circles, interest to their products and services via inexpensive marketing channels.

http://go/oss



#WhyDoWeUseOpenSource

Software has a marginal reproduction cost that approaches zero Source code can be optimized for specific needs obscurity") community Low cost tools for software development and distribution are widely available Influence activity in projects that are important (Pants? Scala? Mesos?) Minimize development costs (Carrying technical debt*) **Decrease time-to-market for products** Generate favorable publicity and mindshare Attract the best talent to Twitter by showcasing our engineering prowess

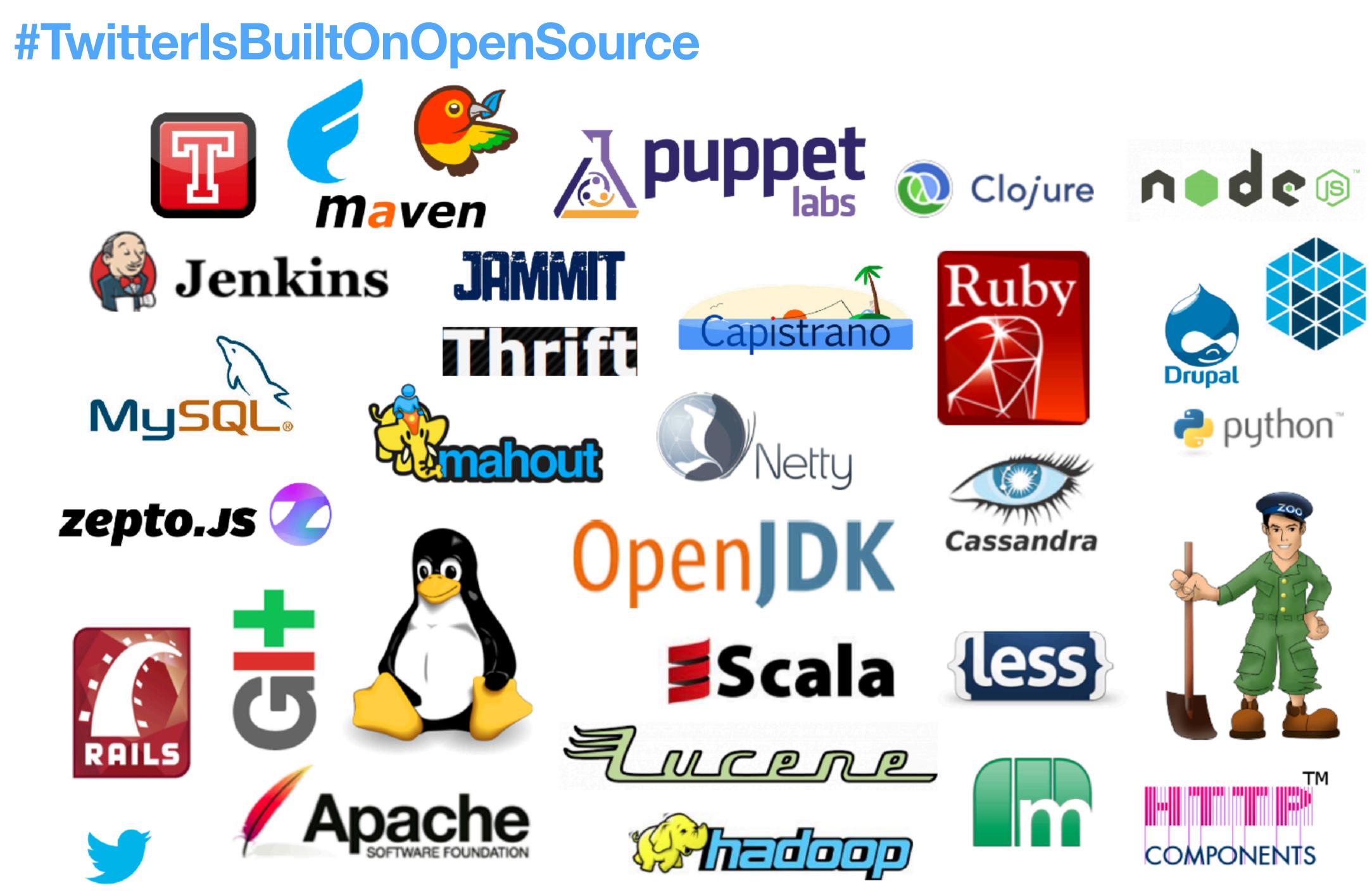
http://go/oss

- Large network of peer reviewers ("Many Eyes Make Any Bug Shallow" v.s. "Security through
- Shared development with contributions from corporations, government, academia and



How do we Support Open Source?







#CompaniesUseAndContributeToTwitterOSS











FullContact





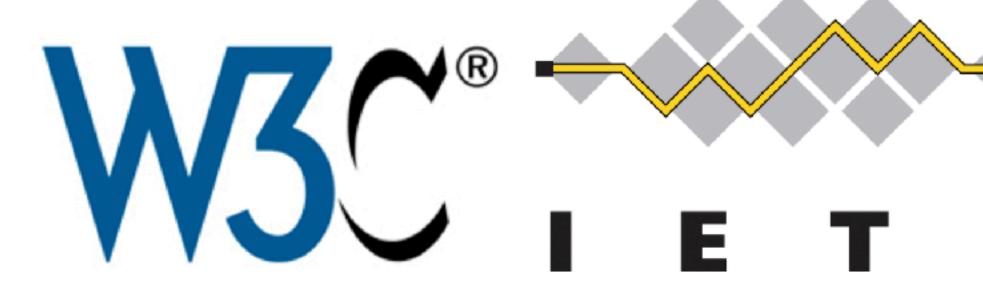


and so on...



#TwitterSupportsFoundationsAndStandards









NUX FOUNDATION





How Do We Inbound Open Source?

- 1. Licensing Guidelines
- 2. 3rd Party Dependency Policy
- 3. 3rd Party Dependency Distribution



How Do We Outbound Open Source?

- 1. Make The Case
- 2. Engineering Management and Community
- 3. Trademarks and Branding
- 4. Legal and Intellectual Property
- 5. Security Review
- 6. Community Architecture and Infrastructure
- 7. Communications and Publication
- 8. Feedback







Questions?

