Mozilla's Community Analytics

GrimoireLab and Mozilla's Open Innovation Team



About Us

John "nemo" Giannelos, Software Engineer Yousef Alam, Infrastructure Engineer

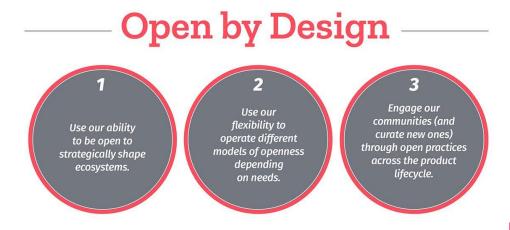




About Mozilla Open Innovation



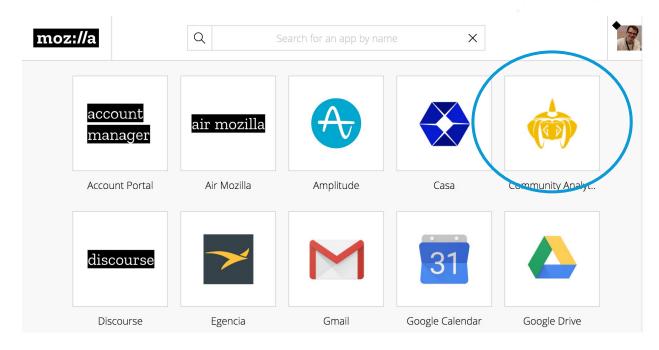
The Open Innovation Team exists to help Mozilla's **product and technology** teams move more intentionally towards **open methods across all phases of the lifecycle** to gain long-term **competitive advantage**.





Accessing data at Mozilla

- Integrated with our organization's single-sign on
- Visible on Mozilla's application dashboard (launchpad)
- Accessible to Staff and NDA'd Volunteers





Analytics Scope at Mozilla

- 1844 Github repos, grouped into 38 projects
- 1786 Bugzilla categories
- 319 newsgroups (aka mailing lists)
- 136 Discourse categories
- 116 Meetups (Rust)
- 9 IRC channels
- 2 Stackoverflow tags
- Wiki analytics
- Custom connectors
 - Rust Crates
 - Mozilla Reps Portal
 - Mozilla Clubs (G Suite form)

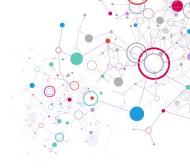




Some more numbers

- 1.000.000 newsgroup messages
- 2.500.000 bugzilla issues
- 1.700.000 commits
- 190.000 identities (bugzilla)

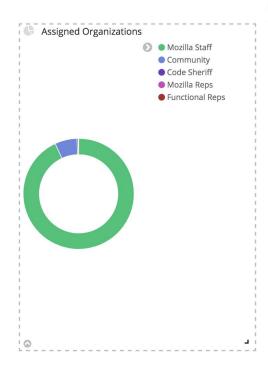
Almost 20 years of data points





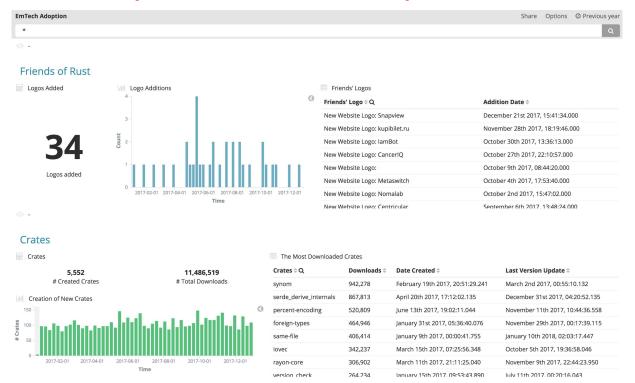
Implementation Challenges

- Version control systems
 - SVN > Mercurial > Git
- Identity duplication
 - "nemo" vs "John :nemo"
 - Identities across multiple sources
- Assigning organizations
 - Staff vs. non-staff





Example: Rust Adoption

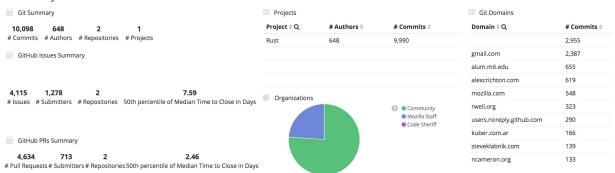




Example: Rust General Analytics

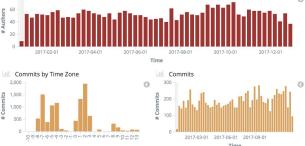


Summary





Git



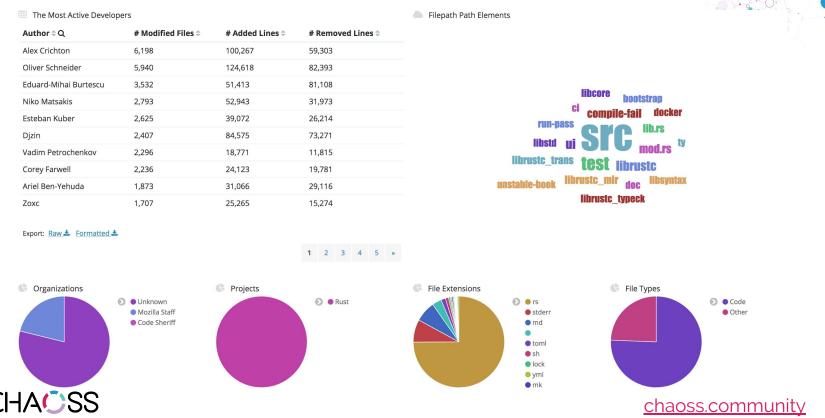
Git Authors			
Author \doteqdot Q	# Commits	Added Lines ‡	Removed Lines \$
Niko Matsakis	655	52,942	31,972
Alex Crichton	619	57,167	44,986
Oliver Schneider	433	112,191	78,985
Guillaume Gomez	369	17,521	9,200
Ariel Ben- Yehuda	334	30,713	21,776
Corey Farwell	323	8,836	4,700
Ralf Jung	312	12,009	6,345

Git New Co	ntributors		
Developer \$	Organization	First Commit Date \$	# Comm
Kagamihime	Community	December 29th 2017 23:04:21.0	,
Felix Schütt Git Reposit	,	December	r 3
		# Commits	# Authors

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Felix Schütt Git Reposi	Community tories	Decembe	er 3
Repository	Q	# Commits	# Authors
https://github lang/rust.git	o.com/rust-	9,545	619
https://githul	o.com/rust-	541	84

chaoss.community

Example: Rust Engineering Analytics



What Next?



- Continue to extend and refine our Dashboards
- Organizational adoption of this metrics capability
 - Emerging Technologies
 - TestPilot
 - Open Innovation Communities and Contributors research
- Research into predictive metrics (Don Marti, CHAOSS)
 - "How do you predict impact metrics and contributor reward metrics from activity metrics?" -<u>Don's Blog</u>



Questions?



- On the web: <u>https://discourse.mozilla.org/c/participationsystems</u>
- Twitter:
 - @hmitsch
 - @yalam96
 - ajohngiann

