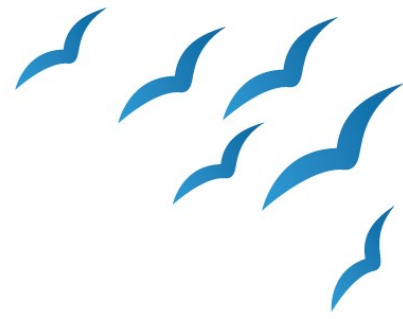


Open Sourcing Your Enterprise

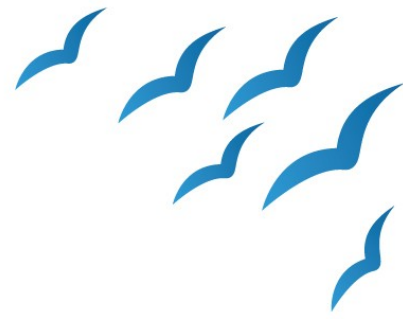
Mohammad Rezaei
2017





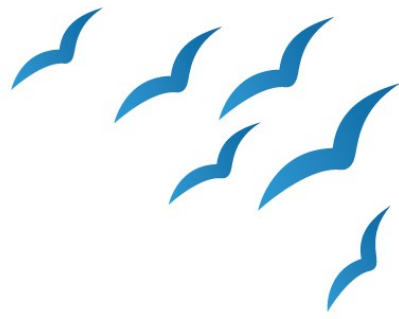
Agenda

- General Introduction
- Motivation and cost/benefit criteria
- Open source recipes
- Measure your success



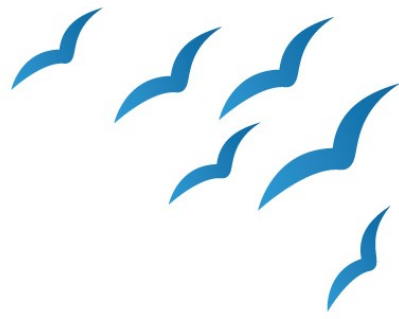
Levels of Participation

- Consumption
 - Contribution
 - Ownership
-
- Start with consumption and have a plan for contribution and ownership.



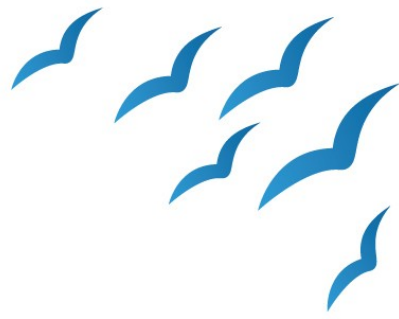
Benefits

- Reduce Costs
 - Concentrate on your domain – don't reinvent the wheel.
 - Implement the features you need.
 - Interoperability
 - Lower legal costs – no need to review contracts



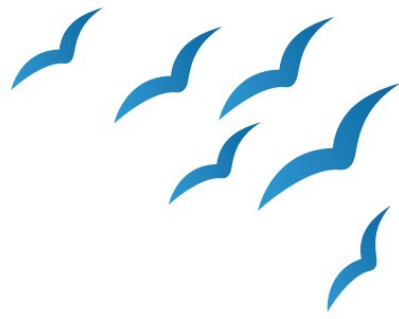
Benefits

- Higher quality code
 - Able to fix issues
 - Freedom from vendor lock-in
 - Many eyes, wide usage improves quality and security



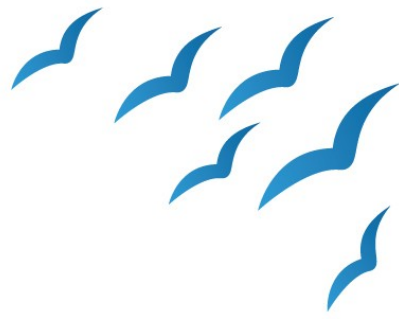
Benefits

- Attract and retain top development talent
- Empower your developers
 - Full access to code, ease of deployment
- Influence direction
- Reduce rejection of proprietary code



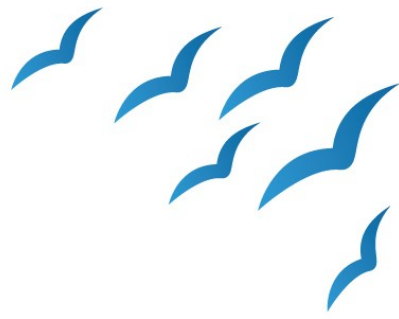
Risks

- License incompatibility
- Litigation (patent, illegal code)
- Malicious code contribution
- Security/viability of old libraries
- Security of unpatched libraries.



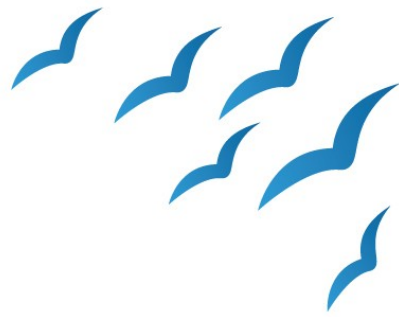
Culture Clash

- “Can only use software with a support contract”
- “Open source is lower quality than commercial software”
- “Open source is not certified to work with product XYZ”



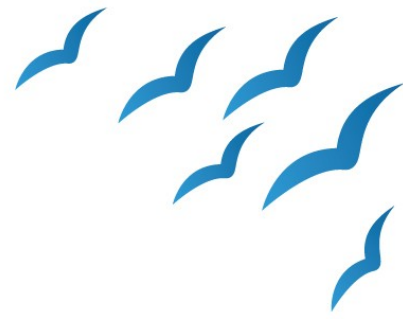
Motivation

- 2015 survey:
 - 88% want to increase contribution
 - 53% want to reduce employee barrier to participation
- Companies contributing:
 - 2014: 50%
 - 2015: 63%
 - 2016: 65%



Motivation

- 30% want to make it easier for employees [2014]
- 67% encourage contribution [2016]
- 34% have more than 50% of employees contributing [2016]
- Facebook asked their employees...
“Were you aware of the open source software program at Facebook?”



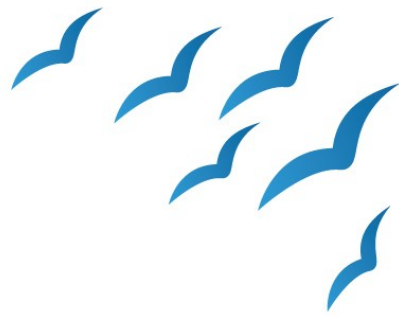
Consumption Recipe

- Sell the benefits
- Establish a license policy
- Mirror & filter maven and npm internally
- Create a process for other intake
- For large deployments, consider paid support
- Post-use compliance



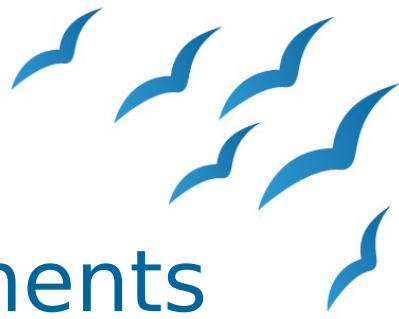
Contribution and Ownership

- Three universal aspects:
 - Legal
 - Social
 - Technical
- Understanding it makes you a better consumer!



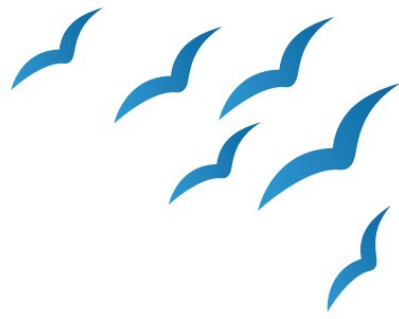
Contribution Recipe

- Sell the benefits
- Establish training for people
- Establish a registry of people/projects
- Create bots for compliance/retention
- Establish project approval process
- Setup IP review for outgoing code
- Support both BYOD and enterprise desktop



Legal

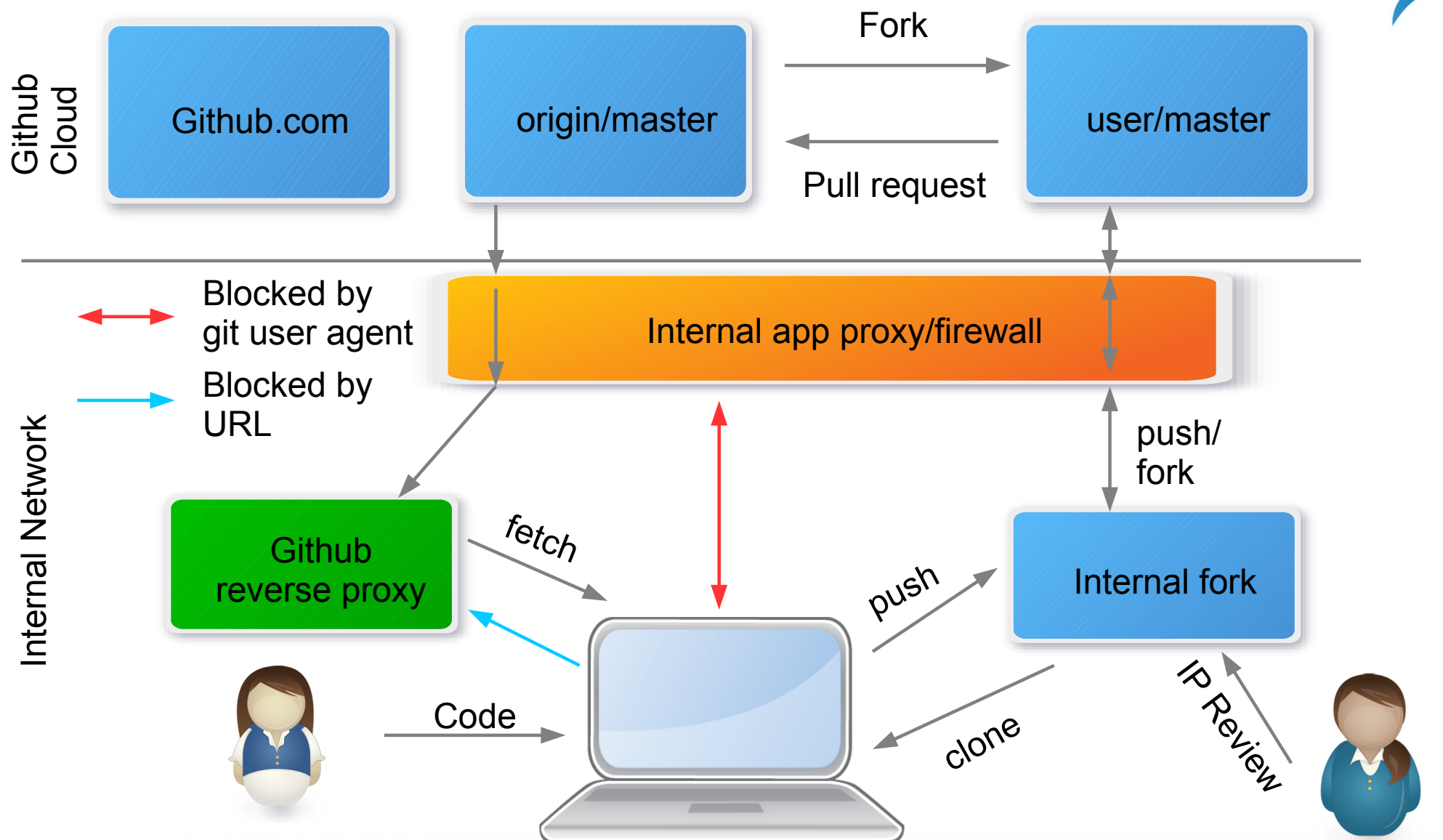
- Review your employment agreements and copyright law
- Explain the rules to your employees
- Understand contribution rules versus consumption rules
- 4 common legal frameworks:
 - Copyright assignment
 - Contribution agreement
 - In == Out
 - In == Out with DCO

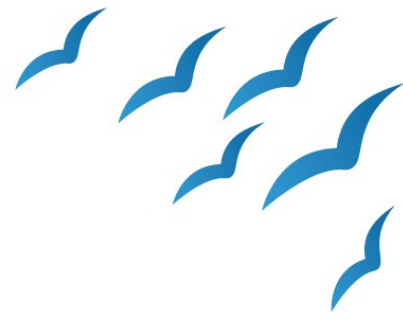


Social

- Social pillars of open source:
 - Collaboration, open exchange
 - Meritocracy
 - Transparency
 - Freedom to tinker
 - Sharing and empowerment
 - Good citizenship
- Respect the local rules

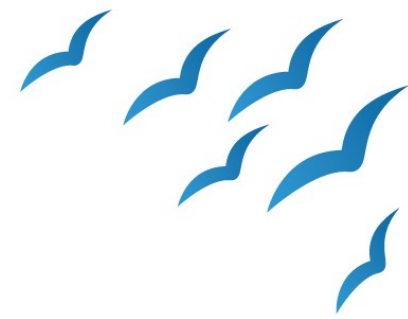
Github Contribution Recipe





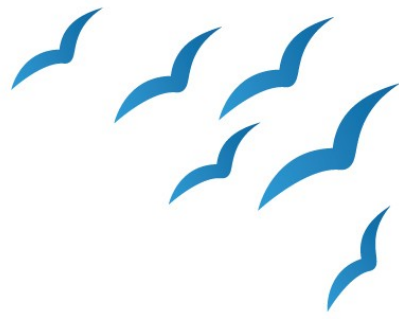
3 Steps to Contribute

- Get trained
 - Social/Legal/Reputational aspects
- Approve project
 - Legal/Vendor review
- Write code
 - Get IP review if not using BYOD



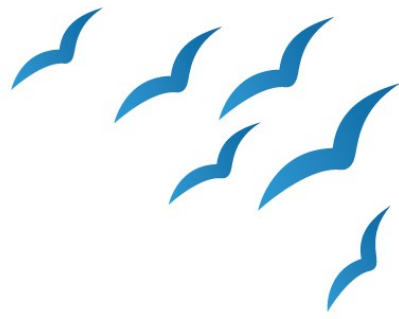
Ownership Recipe

- Sell the benefits
- Establish a project approval process
- Establish a presence outside
- Establish guidelines around responding to issues/bugs
- Adopt a contribution model



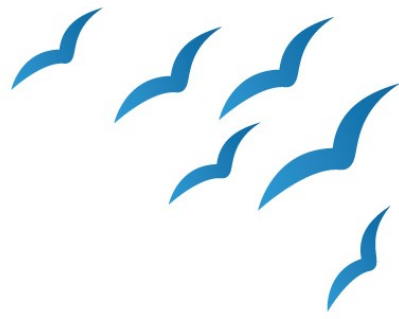
Ownership: checkpoints

- Establish a community standard
- Make sure your work is done in the open
- Adopt a uniform license
- Adopt a contribution model
- Code consistency rules
- Treat the community with respect



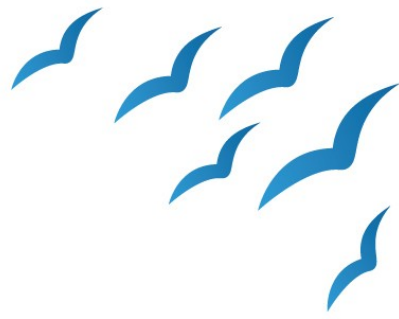
Consumption Success

- How long does it take between deciding to use an open source product and actual use?
- How easy is it to evaluate an open source product for use?
- How easy is it to keep up to date with new versions?
- How many manual approvals?



Contribution Success

- How long does it take between having a patch and having it accepted?
- How many manual approvals?



Ownership Success

- Is the ultimate source in the open?
- Are discussion and decisions happening in the open?
- How big is the size and breadth of the community?
- What happens when a committer leaves the company?
- What's the average response time to issues?