Adopting Open Source in Your Organization

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Adopting Open Source in Your Organization
Adopting Open Source in Microsoft
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## Organizations with the most open source contributors

<table>
<thead>
<tr>
<th>Organization</th>
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It wasn’t always like this...
2009: Microsoft acquires Teamprise
Microsoft was shocked to discover that we used Open Source Software.
“There is this thing called the GPL, which we disagree with.”

- Bill Gates
“Linux is a Cancer.”

- Steve Ballmer
How did we get here?!
Step One: Identify a Business Need
In the year 2012...

Team Foundation Server leads the Gartner “Magic Quadrant” report for ALM.
Team Foundation Server

- **Checkout / Edit / Checkin Version Control System**
  - Inspired by “Source Depot”
  - Ideal for very large projects, not so great for small ones

- **Edit / Merge / Commit Version Control System**
  - A lot like Subversion
  - Good for large projects, okay for small ones
“Hating TFS is a favorite pass time of mine.” - David Adsit

“TFS sucks #justsaying” - Phil Dye

“Team Foundation Server is, simply put, like trying to clean your fingernails with a Backhoe.” - Andy Foreman

“I've just about had it with TFS.” - Scott Herbert

“TFS is for old man developers” - On a “TFS Sucks” T-Shirt

“I fucking hate TFS.” - Dave Schinkel

“I only interacted with TFS when I absolutely had to.” - Brandon Bloom
Why aren’t we using a Distributed Version Control System?
“Team Frustration Server”

Why aren’t we using a Distributed Version Control System?
TFDVCS WTFBBQ?

It looks like you’re trying to rebase some changes?
Step One: Identify a Business Need...

But know your business!
Avoid Dubious and Vague Justification

- Open Source is more secure
- Lower “total cost of ownership”
- Open Source is good for Public Relations
- Open Source will lead to community goodwill
- Open Source is a recruitment pipeline
Step One: Identify a Business Need
Step Two: Understand Your Advantage
Understand Your Advantage
Understand Your Advantage

Microsoft Azure
Understand Your Advantage
Understand Your Advantage
Understand Your Advantage
GitHub is the world’s largest Git hosting provider.

Microsoft hosts the world’s largest Git repositories.
Step Two: Understand Your Advantage
Step Three: Convince the Stakeholders
Convince the Stakeholders

- Coworkers
Your Sales Team?
Ideology + Money
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Convince the Stakeholders

- Coworkers
- Management
Disruptive Technologies vs Sustaining Technologies
Convince the Stakeholders

- Coworkers
- Management
- Lawyers
- Senior Leadership
“Open Source shows the characteristics of communism.”

- Steve Ballmer
Step Three: Convince the Stakeholders
Step Four: Keep it Legal
Keep it Legal

- Understand the different types of Open Source licenses
  - Different licenses have different responsibilities
  - Ignorance is no excuse for non-compliance
- Educate your legal team... and let them educate you
- Automate your compliance scanning
  - WhiteSource can scan your codebase to provide data about your OSS usage
  - (Free for Open Source projects)
- But don’t be afraid of Open Source
  - Open Source contributors want you to use their software!
“Our goal is to teach them how to comply in an ongoing way and continuing using the software.” Everyone I know who does non-profit GPL enforcement treats it this way...

Bradley M. Kuhn
Software Freedom Conservancy
Step Four: Keep it Legal
Step Five: Embrace the Community
Don’t Fork.

Contribute your changes back to upstream.
“Branching is an integration credit card.”

- Benjamin Day
The Contribution Funnel

Use

Contribute Time

Contribute Code

Own

Download it, ship it
Fork / Follow / Favorite

Report bugs (with repro steps)
Update documentation, translations

Contribute bug fixes and tests
Introduce new features

Influence the direction of the project
Review code and welcome new contributors
Step Five: Embrace the Community
Step Six: Success!
“This is AWESOME!!!”  -Cullen Tsering

“Best news I’ve heard all day!!”  -Spencer Roach

“This is (a) absolutely shocking, and (b) utterly fantastic”  
    -Charlie Flowers

“This is great news”  -Carlos Ireart

“This is awesome. Thanks for the good news...”  -Hari Menon

“Great news!”  -Laurent Kempa
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Step Six: Success!
Step Seven: Embrace Inner Source
Before Inner Source
Before Inner Source

Windows

Visual Studio

Office
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After Inner Source

At Microsoft, source code is public within the company...

Hosted in Git...

Accepting Pull Requests.
Step Seven: Embrace Inner Source
Adopting Open Source in Your Organization

- **Step One:** Identify a Business Need
- **Step Two:** Understand Your Advantage
- **Step Three:** Convince the Stakeholders
- **Step Four:** Keep it Legal
- **Step Five:** Embrace the Community
- **Step Six:** Success!
- **Step Seven:** Embrace Inner Source
Thank You!

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