

knowledge

influence

SAUG National Summit 2016 5-6 September 2016 • Hilton Hotel • Sydney

Standing on the shoulders of giants

network

Being a good open source citizen

John Patterson • 6th September 2016





Waterfall ⇒ Agile



Data Centre ⇒ Cloud



Sys Admin ⇒ DevOps



Closed ⇒ Open Source

An aging proprietary code base

Customers technology needs are changing

Competitors are innovating

Investors have many options

For a cultural change

SAP bet big on Open Source because

They needed to create a platform for innovation

SAP HANA Cloud Platform

Business Results in the Cloud Start Here



built using Open Source and Open Standards

Did you know? **SAP adopts Open Source**





Australian Government **Digital Transformation Office**

Home > Digital Service Standard > 7. Use open standards and common platforms

Digital Service Standard

- 1. Understand user needs
- 2. Have a multi-disciplinary team
- 3. Agile and user-centered process
- 4. Understand tools and systems
- 5. Make it secure
- 6. Consistent and responsive design
- 7. Use open standards and common platforms
- 8. Make source code open

Use open standards and common platforms

Build using open standards and common government platforms where appropriate.

Why it's in the Standard

Using open standards and common government platforms helps you to:

- meet the needs of your users by building with proven solutions
- make users' experience of government more consistent, which generates trust
- save time and money by reusing things that are already available
- be more efficient by sharing data appropriately
- move between different technologies when you need to, avoiding vendor lock-in.

Home > Digital Service Standard > 8. Make source code open

Digital Service Standard

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Make source code open

Make all new source code open by default.

Why it's in the Standard

It's important to share your source code so others with a similar need can reuse it.

Open source helps to:

- reduce costs for your project and others'
- avoid lock-in
- stop duplication
- increase transparency
- add benefits, from improvements by other developers.



Not Gratis













Quality Code

"Given enough eyeballs, all bugs are shallow."

-- Linus Torvalds --

Shared code is copyrighted until it is licensed

License spectrum

ATTRIBUTION

BSD MIT Apache **DOWNSTREAM**

MPL EPL MS-RL Restrictive

COPYLEFT

GPL LGPL AGPL

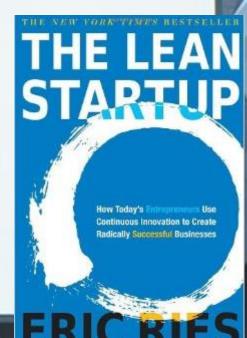
Permissive

Sharing Ideas

"If you have an apple and I have an apple and we exchange these apples then you and I will still each have one apple. But if you have an idea and I have an idea and we exchange these ideas, then each of us will have two ideas."

-- George Bernard Shaw --





THE **LEAN** SERIES

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LEAN ENTERPRISE

How High Performance Organizations Innovate at Scale

O'REILLY®

REASONS

WHY









Parse Server





React Native



HHVM



flow





"People don't buy what you do; they buy why you do it. And what you do simply proves what you believe"

-- Simon Sinek --

"The Facebook" Day 0 Dorm Room, LAMP stack

"Standing on the shoulders of giants and give back in turn"

-- James Pearce head of Open Source --

"To make the world more connected"

-- Mark Zuckerberg --

Sharing ideas to help the industry grow

"The more the Open Source philosophy bleeds out through the engineering team, the better the systems"

-- James Pearce head of Open Source --

An opportunity to share our challenges

Attracts the interest of people who want to work on them

Becoming a good citizen

A sense of giving back to the community

Become a better developer

Improve your CV / Portfolio

Make yourself known

Be an authority and make money

OSS Contribution Funnel

Use

- Be able to understand what it does
- Can easily pick it up and use
- Download
- Fork / Follow / Favorite

Contribute Time

- Log bugs
- Answer questions
- Write blog posts
- Fix / add documentation
- Fix typos

Contribute Code

- Actually contribute code patches that fix bugs / improve test cases
- Contribute entirely new features
- Translate
- Maintain platforms

Own

- Become a core committer (get write access)
- Accept / validate code contributions
- Nurture new people
- Stick around
- Influence the direction of the project

10 Questions to ask before consuming?

Read the reviews, blogs, tech journals, determine the reputation

Does it have a currently active community?

Are questions being asked + answered on StackOverflow, is there a Slack channel or a mailing list?

Before the contractor leaves ensure you have a training plan

Does it have good documentation?

4

Readme, Contribution Guidelines, Tutorials, Examples, Help + License Major versions, breaking versions, patches, is there a roadmap etc.

The type of issues, how long and who is supporting?

Look for a good testing story, programming guidelines, a formal review process, Continuous Integration etc.

Does it use open standards?

Ensure its not reinventing the wheel, interoperability with other software is key

Use audit software to catalog open source and third party dependencies and remedy vulnerabilities and violations found

give back? 10 Should we make time to

A great way to attract new talent and upskill existing

Takeaways

- Open source is as much a movement as it is a licensing approach
- Open source and open standards are core to business software transformation and innovation
- Do your due diligence before consuming code and have a plan for supporting it

