

# Produire de l'open source

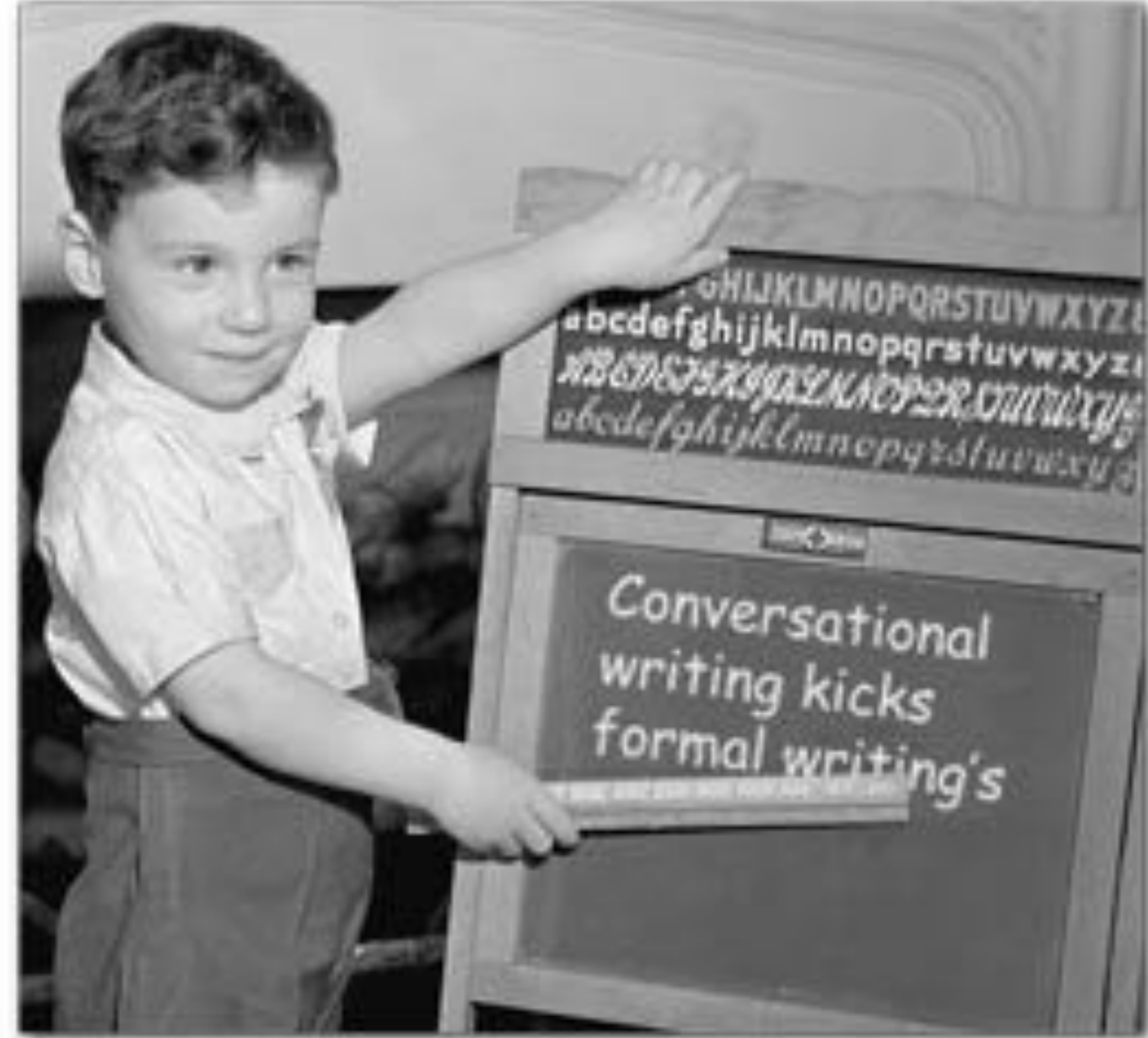
*Pourquoi et comment créer une communauté ?*

**Stéphane Fermigier**

Cours à l'EPITA - 18 oct. 2022

# Une communauté: pourquoi?

# Out-spend or Out-teach



Source: Kathy Sierra



Source: Kathy Sierra



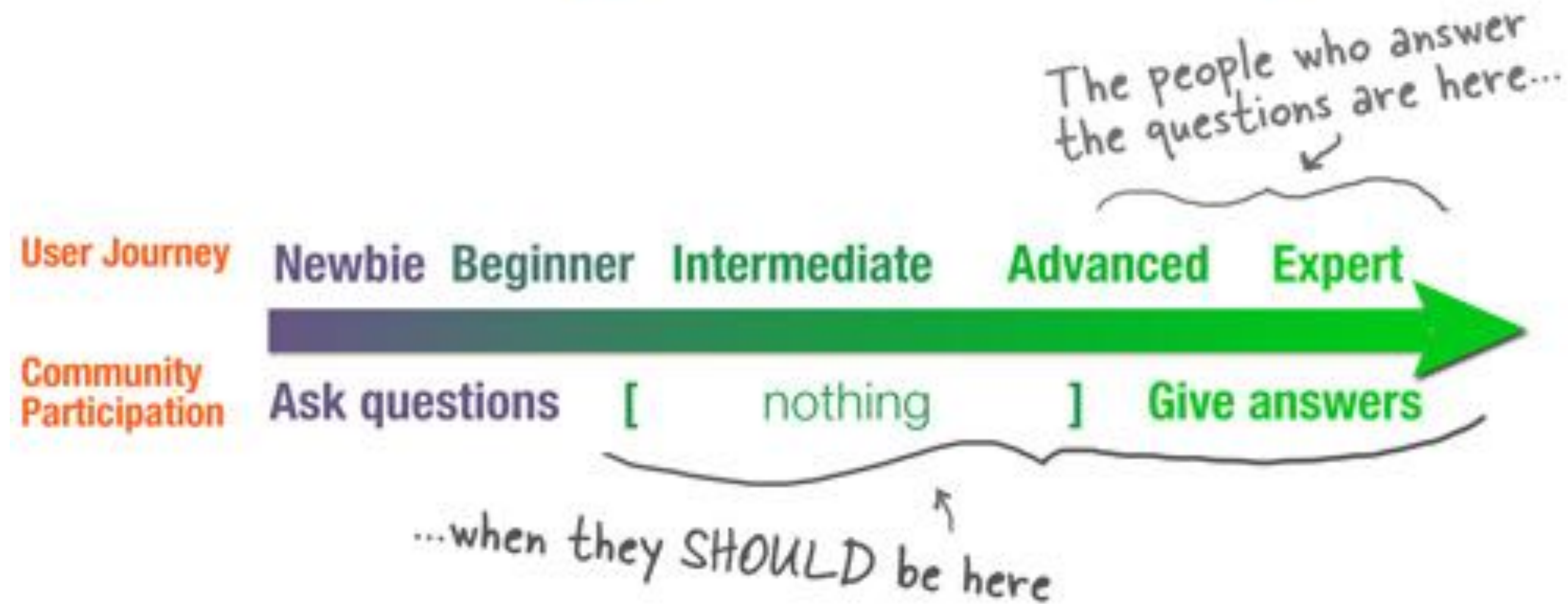
# Community ROI



the more your users participate,  
the less money you need

Source: Kathy Sierra

# Building a User Community



The earlier they start helping others, the faster the community grows, and the more likely it is that not-yet-advanced users stick with it

Source: Kathy Sierra

## → Common goals

- Get **feedback**
- Get **contributors**
- Improve our software **quality**
- Generate **buzz** and **evangelists**
- **Show** that we do have a community

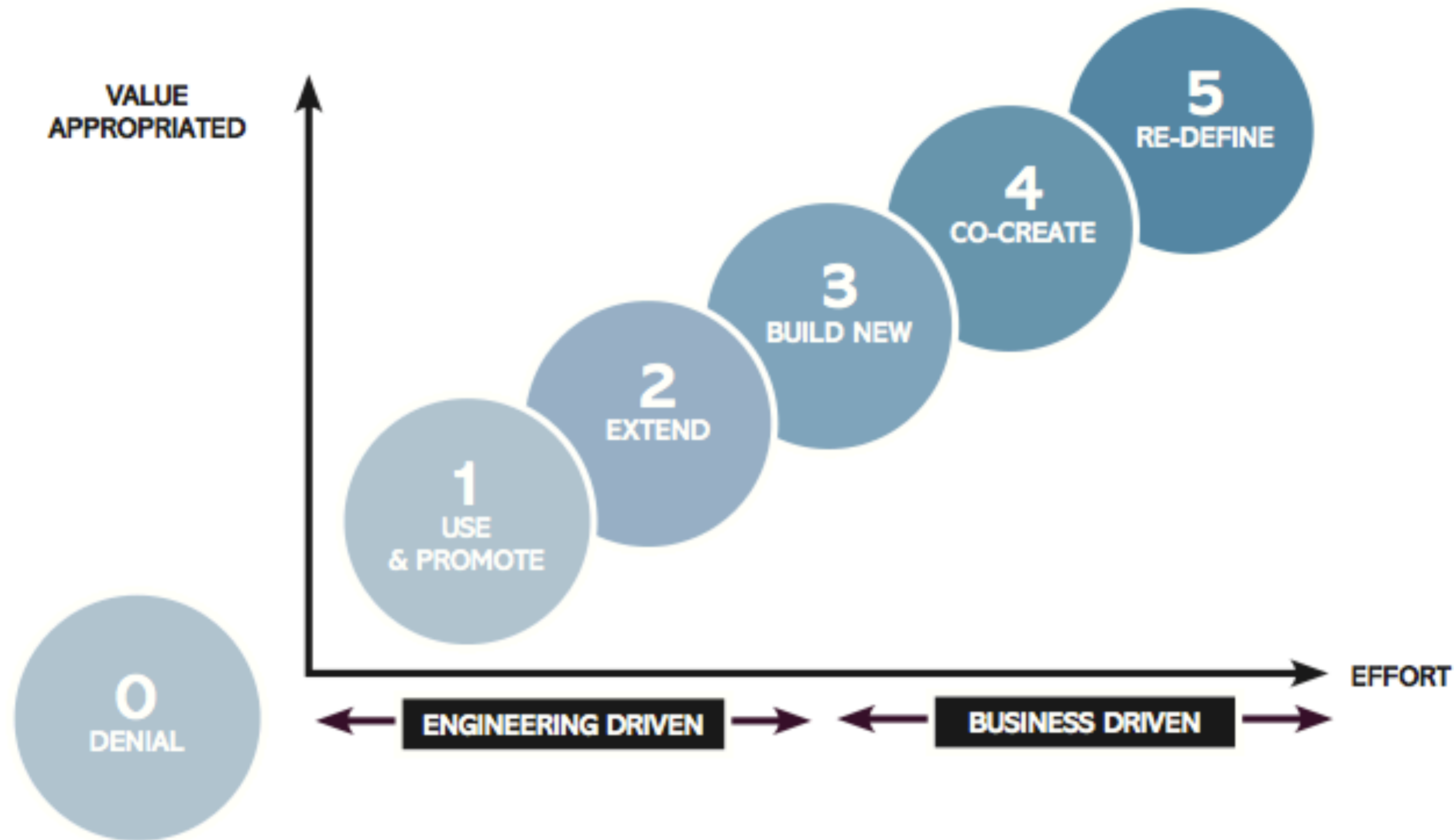
# Stratégie open source



# Evolution classique

- *Software developed by communities of individuals*
- *Vendors begin to engage with existing open source communities*
- *Vendor-dominated open source development and distribution projects*
- *Corporate-dominated open source development communities*

# Modèle d'adoption



Source: Eclipse Foundation/Carleton University & Nortel

# Éléments de stratégie - Pour un éditeur open source

- *Software License*
- *Copyright Ownership*
- *Development Model / Community*
- *Revenue Generator*

# Marketing et “évangélisation”



# Site Web

- Design
  - Utiliser / acheter un template “pro”
  - Tendence récente: Twitter Bootstrap
- Pitch (5 lignes)
  - Doit parler à des non-spécialistes
- *Features / benefits*

# Site Web

- Définir l'audience cible
  - Segmenter si nécessaire
- *Progressive disclosure*
  - 1 minute / 5 minutes / 1 heure
- News et roadmap
  - Montrer qu'il y a de l'activité

# Site Web

- Liens vers les outils communautaires (*cf. infra*)
- Liens vers les ressources documentaires
  - Doc (architecture, utilisateurs)
  - Slides (SlideShare ou SpeakerDeck)
  - Screencasts

# Le code

- Doit être facile à trouver, à builder (“configure ; make ; make install”)
  - Comment gérer les dépendances ?
- README, INSTALL, etc.
  - Note: le fichier README est devenu crucial avec des outils comme GitHub
- Packaging (distributions Linux, Mac, Win...)

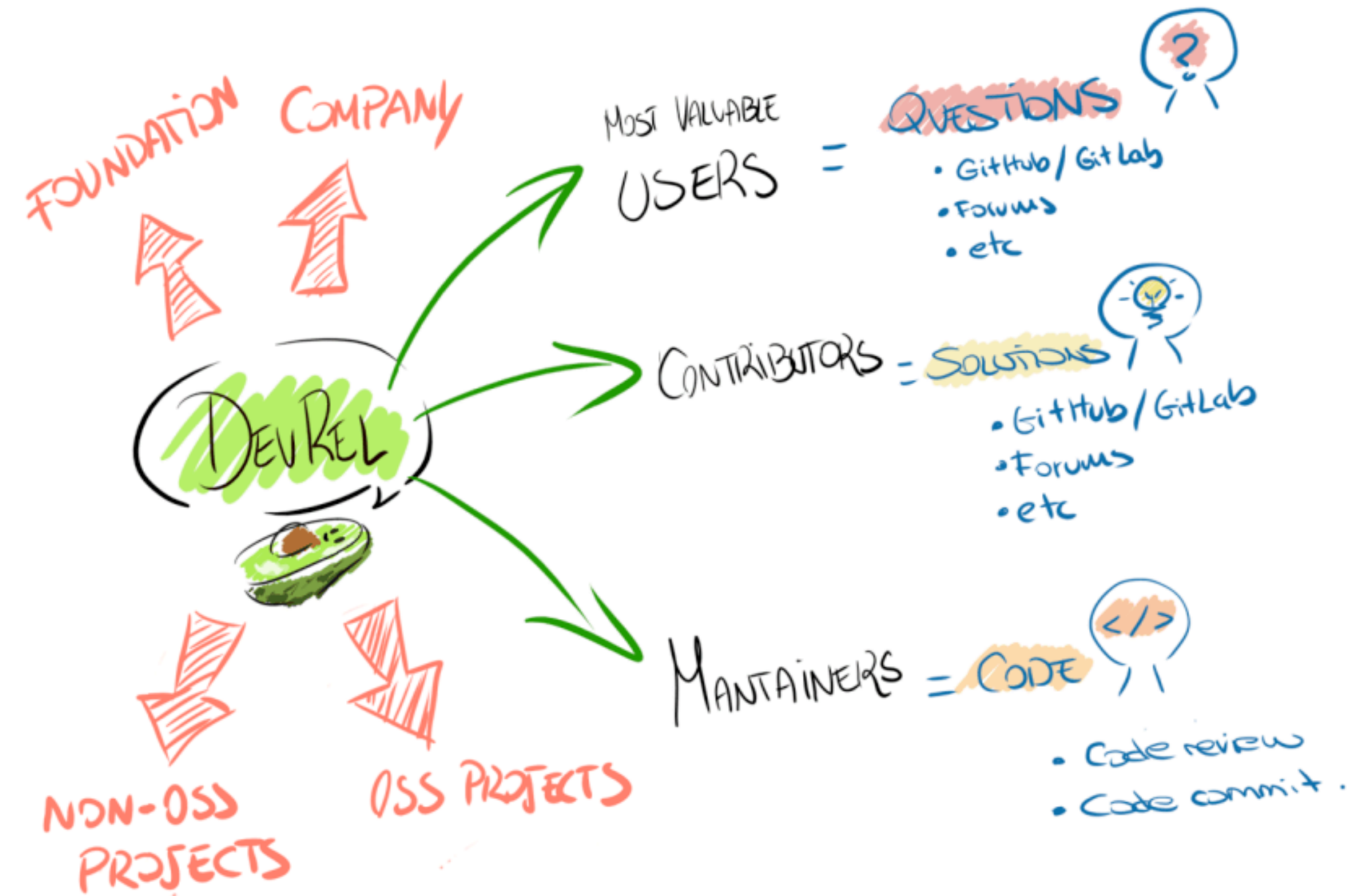


# L'évangélisation selon Guy Kawasaki

- “Evangelism” became a business buzzword during the internet boom of the late 1990s. In fact, as Apple’s second software evangelist, I helped popularize the term. The idea is simple: Derived from a Greek word that means, roughly, “to proclaim good news,” evangelism is explaining to the world how your product or service can improve people’s lives.
- My job at Apple was to proclaim the good news that Macintosh would make everyone more creative and productive. I wasn’t just marketing a computer; I believed in it so much that I wanted others to experience it too. Now, as the chief evangelist of Canva, my job is to share a platform that democratizes design. Evangelists truly have the best interests of others at heart.

# Emergence des “DevRel” (developer relations)

“DevRel is the marketing technique used to ensure that one's company, products, and developers establish a good, continuous relationship with external developers through mutual communication.”



# Activités en lien avec le DevRel

- A DevRel program may comprise a framework built around some or all of the following aspects:
  - **Developer Marketing:** Outreach and engagement activities to create awareness and convert developers to use a product.
  - **Developer Education:** Product documentation and education resources to aid learning and build affinity with a product and community.
  - **Developer Experience (DX):** Resources like a developer portal, product, and documentation, to activate the developer with the least friction.
  - **Developer Success:** Activities to nurture and retain developers as they build and scale with a product.
  - **Community:** Nourishes a community to maintain a sustainable program.

# Exemples d'animation

- Participation à / organisation de conférences
- Workshops
- Sprints
- Hackathons
- Club utilisateurs



# DevRel vs. Community management

- La dénomination “Community manager” est trompeuse, le plus souvent il s’agit de “correspondants sur les réseaux sociaux”

# Gouvernance et modèle de développement

# Modèles de gouvernance

- *Vendor-led*
  - Concessions possibles: club utilisateur, *board* plus ou moins indépendant et influent
- *Community led*
  - Formel ou informel
  - Communauté établie ("Fondation": FSF, ASF, Eclipse, OW2...) ou ad-hoc

# Good Governance Initiative - OW2 & OSPO.zone



Abraham Maslow's Hierarchy of Behavioral Motivation

**Strategy**

**Engagement**

**Culture**

**Trust**

**Usage**

Embracing the full potential of OSS. Proactively using OSS for innovation and competitiveness.

Engaging with the OSS ecosystem. Contributing back. Developing visibility, event participation.

Implementing best practices. Developing OSS culture. Sharing experience.

Securely and responsibly using OSS. Compliance and dependency management policies.

Technically using OSS. Technical ability and experience with OSS. Some OSS awareness.

OW2 Goals to OSS Good Governance



# Modèles de décision dans les gouvernance communautaires

- Hiérarchie des membres
  - Contributeur, *committer*, *core committer*...
- Unanimité, consensus ou *BDFL* ?
  - Qui porte la vision ? Comment est-elle partagée ?
  - Enjeux? Vitesse d'exécution, masse critique ?

# Considérations juridiques

# Propriété du code

- Centralisée?
  - Chez l'éditeur
  - Au sein d'une communauté
- Ou partagée?
- Notion de *contributor's agreement* (CLA / CCA) + DCO

# Choix des licences

- Contrat moral avec la communauté
  - Tout changement risque d'être vécu de manière traumatique
- Contraintes business
  - Ex: *open core, double licensing*
  - Copyleft / weak copyleft / pas de copyleft

# Choix des licences


- ~100 licences reconnues par l'OSI, 8 "*popular and widely used or with strong communities*"
  - BSD, MIT, (L)GPL, APL, MPL, EPL, CDDL
- Critères importants:
  - Compatibilité GPL (en général désirable)
  - Compatibilité intégration avec du propriétaire (choix)

# Évolution des pratiques



# **FOSS 0.1**

## **1983-1990**

A photograph of Richard Stallman, a man with long dark hair, a full grey beard, and glasses, wearing a red shirt. He is speaking into a silver microphone. The background is a bright, out-of-focus interior with large windows and white architectural columns.

# Richard Stallman, Founder of the Free Software Movement

Photo credit: <http://commons.wikimedia.org/wiki/User:Vicapowell39>



- The free software movement was started in 1983 by Richard Stallman
- Most of the open source software produced at the time was developed by **very small teams** (2-3 persons), using local development tools
- Software were distributed using **tapes**, then **FTP**
- Marketing was mostly through word-of-mouth
- Community = people with internet access (not many people)

# Early successes

- The GNU “operating system” (minus the kernel) was already displacing proprietary tools in the early 90s
- The moral and legal frameworks upon which the free software (and later, the open source) movement is built
- Didn’t mandate / prescribe any production model for free software, though

# Challenges

- Economic and moral questioning:
  - **Is it ok to make money with free software?**
  - How to make the system **sustainable?**
- How to **scale development** efforts to larger teams?

**FOSS 0.9**  
**1991-1998**



# Successes

- **Larger scale projects** start to appear, attracting tens, then hundreds of developers (and later, thousands)
- **Tools** and **practices** are developed, most often on top of existing internet protocols to address the needs of distributed development at this scale :
  - Centralized source code management
  - Mailing lists or usenet forums

# Successes

- Linux (1991)
- The Debian (1993) and Red Hat (1994) distributions
- The Apache Web Server (1995)

# **FOSS 1.0**

## **1998-2007**

- **Open source** becomes the preferred term for most free software based businesses
- The **Web** becomes pervasive
- Several organizations created to foster **governance** of open source projects (Apache Foundation, Eclipse Foundation, OW2...)
- Several successful IPOs on top of the Web 1.0 bubble (Red Hat, VA Linux), Netscape open sources the Mozilla browser...

# The 4 engines of collaboration

- Real-time **shared vision**
- Real-time **status updates**
- Real-time **help requests**
- Self-service **archives**

Source: Bertrand Delacretaz, 2009

# OS Secret Sauce

“Every successful open source project I know uses **PRIM**. Every closed source project I know, doesn't. People wonder how open source projects manage to create high-quality products without managers or accountability. The answer: **we're accountable to our infrastructure**. PRIM is the **open source secret sauce**.”

Ted Husted <http://jroller.com/TedHusted/entry/prim>



# P = Portal (often, a Wiki)

The image displays three overlapping screenshots of Nuxeo web portals, illustrating the 'P' in 'P = Portal (often, a Wiki)'.

**Top Left: Nuxeo Community Site**

- Header:** nuxeo THE COMMUNITY
- Main:** Nuxeo Community Site
- Welcome to the Nuxeo Community Site**
- Description:** Nuxeo EP™ is an open source, standards-compliant, Java EE-based platform for Enterprise Content Management (ECM), both server-side and client-side.
- QuickStart**
  - nuxeo • DM 5.3** If you just downloaded Nuxeo DM, please have a look at the [Nuxeo DM 5.3 QuickStart page](#).
  - nuxeo • DAM** If you just downloaded Nuxeo DAM, please have a look at the [Nuxeo DAM QuickStart page](#).
- Downloads**

The latest [downloads](#) include:

  - the Nuxeo EP, Nuxeo WebEngine and Nuxeo RCP installers,
  - various add-ons, and the Nuxeo Shell for the Nuxeo EP server,
  - plugins for your favorite web browser or office suite (currently Internet Explorer, Firefox and MS-Office),
  - service packs for critical problems.
- Discussions and mailing lists**
  - [Nuxeo Forums](#): discussion for users and developers of Nuxeo's software (developers can also use the [linked mailing-list](#)).
- Log-In / Register** (top right)
- Search...** (top right)
- Quick Links** (middle right): Home, Downloads, FAQ, CMIS, Discussions, What's New, Tags, Index.

**Top Right: Planet Nuxeo**

- Header:** Planet Nuxeo
- Sub-header:** News from the Open Source ECM trenches
- Date:** February 22, 2010
- Author:** Stefane Fermigier's Nuxeo Blog
- Article:** Meet us at Solutions Linux in March, too
- Content:** Solutions Linux is the oldest and biggest trade show in France dedicated to the open source ecosystem. It's been happening every year in Paris since 1999 (it was called "Linux Expo", back then). This year, Solutions Linux is happening at exactly the same time as Documentation and OSC, and we're spread thin between all these exciting events, but some of us will be hanging around Solutions Linux:
  - Olivier Grisel will give a presentation on "Large Scale data crunching with Hadoop MapReduce et Clojure" during the conferences' "developer track"
  - I will co-chair the same [developer track](#)
  - I will also take part in a [roundtable](#) on how the public and private sectors can work together to develop better software and content for the education system
- Footer:** Want to book an appointment with me during Solutions Linux? Drop me a mail: [sf@nuxeo.com](mailto:sf@nuxeo.com).
- Don't miss a thing!** (RSS, EBOOK, FBK, SUBSCRIBE)
- Our blogs**
  - Cheryl's Nuxeo Blog
  - Luc's Nuxeo Blog
  - Nuxeo Developers Blog
  - Nuxeo Lounge
  - Stefane Fermigier's Nuxeo Blog
- Last updated:** February 25, 2010 01:40 PM All times are UTC.
- Powered by:** Nuxeo
- About Us**

We're the friendly employees of Nuxeo, a leading open source software vendor, which develops a complete Enterprise Content Management (ECM) software platform to help companies better produce, process, publish, archive, expose and find their information from digital assets to transactional documents.

  - Follow us @nuxeo (Twitter)
  - Connect on LinkedIn
  - Visit Nuxeo.com
- Top Posts**
  - 10.0 Nuxeo on the Road (and On the Web)
  - 10.0 Stefane Fermigier's Nuxeo Blog: Preliminary Nuxeo EP roadmap for 2010
  - 10.0 Cheryl's Nuxeo Blog: Nuxeo DAM - First CMIS enabled Digital Asset Management - We're Launched!
- Download NUXEO • DM** (with icon)
- ALL NUXEO • DM SCREENCASTS** (with icon)
- DISCOVER OUR PRODUCTS** (with icon)

**Bottom: Nuxeo Wiki**

- Header:** nuxeo THE COMMUNITY
- FAQ: Home**
- Nuxeo Frequently Asked Questions**
- Note:** (Note that this FAQ is a work in progress, the old version is at <http://svn.nuxeo.org/trunk/nuxeo/wiki/FAQ>)
- Developer setup**
  - Which Version of JBoss
  - Downloading Nuxeo Sources
  - Working with nuxeo 8.1 and 8.2 sources
  - Cannot upload an image in a "htmlText" widget
  - How to translate nuxeo
  - How to debug test run with maven
  - How to do incremental deployment (not reload) in the JBossAS layer
  - How to setup Eclipse and use Nuxeo IDE for webengine development with not-reload and project creators
  - How to connect to Nuxeo JMX agent
  - How to invalidate the VDS on the programmatically
  - How to test Nuxeo with Selenium ?
  - How to integrate GWT applications into Nuxeo ?
  - How to embed a Nuxeo Server ?



# R = Repository

Repositories list				<a href="#">Mercurial</a>	
<a href="#">Name</a>	<a href="#">Description</a>	<a href="#">Contact</a>	<a href="#">Last change</a>		
addons	Nuxeo Addons	Florent Guillaume <fg@nuxeo.com>	2 weeks ago	<a href="#">zip</a>	<a href="#">RSS</a> <a href="#">Atom</a>
addons/nuxeo-core-folder-versioning	Nuxeo Core Folder Versioning	Florent Guillaume <fg@nuxeo.com>	12 months ago	<a href="#">zip</a>	<a href="#">RSS</a> <a href="#">Atom</a>
addons/nuxeo-correspondence-marianne	Nuxeo Correspondance Mariane	Florent Guillaume <fg@nuxeo.com>	11 minutes ago	<a href="#">zip</a>	<a href="#">RSS</a> <a href="#">Atom</a>
addons/nuxeo-features-page-layout	Nuxeo Features Page Layout	Florent Guillaume <fg@nuxeo.com>	9 months ago	<a href="#">zip</a>	<a href="#">RSS</a> <a href="#">Atom</a>
addons/nuxeo-generic-wss-handler	Nuxeo Generic WSS Handler	Florent Guillaume <fg@nuxeo.com>	4 months ago	<a href="#">zip</a>	<a href="#">RSS</a> <a href="#">Atom</a>
addons/nuxeo-http-client	Nuxeo HTTP Client	Florent Guillaume <fg@nuxeo.com>	4 weeks ago	<a href="#">zip</a>	<a href="#">RSS</a> <a href="#">Atom</a>
addons/nuxeo-platform-annotations	Nuxeo Platform Annotation service addon	Florent Guillaume <fg@nuxeo.com>	3 months ago	<a href="#">zip</a>	<a href="#">RSS</a> <a href="#">Atom</a>
addons/nuxeo-platform-archive	Nuxeo Platform Archive service addon	Florent Guillaume <fg@nuxeo.com>	10 months ago	<a href="#">zip</a>	<a href="#">RSS</a> <a href="#">Atom</a>
addons/nuxeo-platform-archive-importer	Nuxeo Platform Archive Importer plugin	Florent Guillaume <fg@nuxeo.com>	18 months ago	<a href="#">zip</a>	<a href="#">RSS</a> <a href="#">Atom</a>
addons/nuxeo-platform-audio	Nuxeo Platform Audio Addon	Florent Guillaume <fg@nuxeo.com>	3 weeks ago	<a href="#">zip</a>	<a href="#">RSS</a> <a href="#">Atom</a>
addons/nuxeo-platform-audit-web-access	Nuxeo Platform Audit Web Access	Florent Guillaume <fg@nuxeo.com>	3 months ago	<a href="#">zip</a>	<a href="#">RSS</a> <a href="#">Atom</a>
addons/nuxeo-platform-categorization	Nuxeo Automated Document Categorization: framework and service	Florent Guillaume <fg@nuxeo.com>	2 weeks ago	<a href="#">zip</a>	<a href="#">RSS</a> <a href="#">Atom</a>
addons/nuxeo-platform-categorization/nuxeo-platform-categorization-coverage	Nuxeo Automated Document Categorization: dc:coverage model	Florent Guillaume <fg@nuxeo.com>	2 weeks ago	<a href="#">zip</a>	<a href="#">RSS</a> <a href="#">Atom</a>
addons/nuxeo-platform-categorization/nuxeo-platform-categorization-language	Nuxeo Automated Document Categorization: dc:language model	Florent Guillaume <fg@nuxeo.com>	2 weeks ago	<a href="#">zip</a>	<a href="#">RSS</a> <a href="#">Atom</a>
addons/nuxeo-platform-categorization/nuxeo-platform-categorization-subjects	Nuxeo Automated Document Categorization: dc:subjects model	Florent Guillaume <fg@nuxeo.com>	2 weeks ago	<a href="#">zip</a>	<a href="#">RSS</a> <a href="#">Atom</a>
addons/nuxeo-platform-document-categorization	Nuxeo Automated Document Categorization	Florent Guillaume <fg@nuxeo.com>	2 weeks ago	<a href="#">zip</a>	<a href="#">RSS</a> <a href="#">Atom</a>
addons/nuxeo-platform-documentLink	Application Level document proxies for Nuxeo5	Florent Guillaume <fg@nuxeo.com>	4 months ago	<a href="#">zip</a>	<a href="#">RSS</a> <a href="#">Atom</a>

# I = Issue (or Bug)Tracker

The image displays two web interfaces side-by-side. The left interface is the Mozilla Bugzilla page for bug 169837, titled "scroll bookmarks but not other menu items in bookmarks menu". It shows a form for creating or editing a bug, with fields for Product (Firefox), Component (Bookmarks), Status (NEW), and a summary. The right interface is the Nuxeo Open Source ECM project page. It features a navigation bar with links like HOME, BROWSE PROJECT, FIND ISSUES, and a sidebar with a list of components and versions. The main content area shows a table of components with open issues, and a right sidebar with reports, filters, and a project summary.

**Mozilla Bugzilla Bug 169837**  
scroll bookmarks but not other menu items in bookmarks menu  
Last modified: 2005-05-29 11:57 PDT

Search page Enter new bug

Bug# 169837 alias:   
Product: Firefox  
Component: Bookmarks  
Status: NEW  
Resolution:  
Assigned To: Vladimir Vukicevic (Bookmarks Bugs Only) <vladimir-bm@zslad1.com>  
QA Contact: mconnor@steelgryphon.com  
URL:   
Summary: scroll bookmarks but not other menu items in bookmarks menu  
Status Whiteboard:   
Keywords:

Attachment	Type	Created	Size	Flags	Actions
patch	patch	2004-07-25 08:55 PDT	5.74 KB	none	<a href="#">Edit</a> <a href="#">Diff</a>
<a href="#">Create a New Attachment</a> (proposed patch, testcase, etc.) <a href="#">View All</a>					

Bug 169837 depends on:  [Show dependency tree](#)  
Bug 169837 blocks:  [Show dependency graph](#)  
Votes: 8 [Show votes for this bug](#) [Vote for this bug](#)  
Additional Comments:

**nuxeo • Open Source ECM**  
Stéphane Fermigier Filters Log Out

HOME BROWSE PROJECT FIND ISSUES CREATE NEW ISSUE ADMINISTRATION QUICK SEARCH:

All Projects : Nuxeo Enterprise Platform (Key: NXP)

Project Lead: [Thierry Delprat](#)  
URL: <http://www.nuxeo.org/>

☐ Create a new issue in project Nuxeo Enterprise Platform  
☐ Administer Project  
☐ Release Notes

Select: Open Issues Road Map Change Log Popular Issues Labels Versions Components

Components	Issues	Versions	Issues
(with open issues in each component)		(with open issues due to be fixed per version)	
<a href="#">Audit</a>	5	<a href="#">5.1.7</a>	28
<a href="#">Comments</a>	3	<a href="#">5.2 GA SP1</a>	1
<a href="#">Core</a>	18	<a href="#">5.2.1.0</a>	2
<a href="#">Core JCR Storage</a>	3	<a href="#">5.3 GA</a>	3
<a href="#">Core SQL Storage</a>	19	<a href="#">5.3.1</a>	63
<a href="#">Desktop Integration</a>	4	<a href="#">5.3.2</a>	2
<a href="#">Directory</a>	9	<a href="#">5.3.x</a>	206
<a href="#">Flex</a>	3	<a href="#">6.0</a>	5
<a href="#">Installers / Admin tools</a>	27	<a href="#">Unscheduled</a>	334
<a href="#">Notifications</a>	2		
<a href="#">Packaging</a>	5		
<a href="#">Relation Engine</a>	1		
<a href="#">Runtime</a>	7		
<a href="#">Search / Query</a>	9		
<a href="#">Security</a>	7		
<a href="#">Tagging</a>	3		
<a href="#">Transforms</a>	4		
<a href="#">Web Foundations</a>	7		
<a href="#">Web UI</a>	25		

**Reports**  
[Recently Created Issues Report](#)  
[Created vs Resolved Issues Report](#)  
[Resolution Time Report](#)  
[Average Age Report](#)  
[Pie Chart Report](#)  
[SUPNXP issues over time](#)  
[SUPNXP issues by projects](#)  
[User Workload Report](#)  
[Version Workload Report](#)  
[Time Tracking Report](#)  
[Single Level Group By Report](#)

**Preset Filters**  
- All  
- Outstanding  
- Unscheduled  
- Assigned to me  
- Reported by me  
- Resolved recently  
- Added recently  
- Updated recently  
- Most important

**Project Summary**  
[Open](#) 186 4%  
[In Progress](#) 11  
[Reopened](#) 12  
[Resolved](#) 2783 61%  
[Closed](#) 1153 25%  
[Triage](#) 427 9%

**Open Issues**  
By Priority  
[Blocker](#) 6 1%  
[Critical](#) 20 3%



# M = Mailing List (+ foruM)

The collage consists of four screenshots:

- Top Left:** A screenshot of a Mac Mailbox interface. The search bar shows 'ecm' and '10431 Found'. The list of emails includes subjects like 'ECM LAN Web Access', 'How can I configure a multi-repository Nuxeo?', and 'Errors starting Nuxeo 5.3.jhoss'.
- Top Right:** A screenshot of the 'Nuxeo mailing list archives' website. The page is titled 'February 2010 Archives by date'. It shows a list of messages sorted by date, with a 'Start Date' of 'Mon Feb 1 08:46:58 CET 2010' and an 'End Date' of 'Thu Feb 25 21:04:59 CET 2010'. There are 200 messages. The list includes topics like 'Templates with predefined workflows for documents', 'Recursive delete part2', and 'Nuxeo and Webdav'.
- Bottom Left:** A screenshot of the 'Nuxeo THE COMMUNITY' forum page. The page is titled 'Forum: General Discussions'. It shows a list of threads and a table of recent posts. The table has columns for Thread, Author, Views, Replies, and Last Post. The threads include 'Search can't find short words', 'remove tabs', 'Sharepoint WSS behind Apache reverse proxy', and 'Restrict language selection'.
- Bottom Right:** A screenshot of a specific forum thread titled 'Automatic prefix to document names'. The thread is started by 'Sean Radford' on '2010-02-24 21:36:46 GMT (16 hours and 16 minutes ago)'. The subject is 'Automatic prefix to document names'. The thread content discusses the requirement to automatically prefix the usual generated document name with an additional code. The thread is marked as 'SOLVED'.

# Software Forges, a more integrated approach

- **Sourceforge**, launched in 1999 by VA Linux, integrates all these tools in a consistent Web (1.0) portal
- Makes it super easy for anyone (3.4 million users currently) to start a new open source project (324 000 as of today)
- Several similar products launched afterwards (Collabnet, Trac, Redmine)



# Works for non open source software too...

## **Open Collaboration within Corporations Using Software Forges**

**Dirk Riehle, John Ellenberger, Tamir Menahem, Boris Mikhailovski,  
Yuri Natchetoi, Barak Naveh, and Thomas Odenwald, *SAP***

**IEEE  
Software**





# **FOSS 2.0**

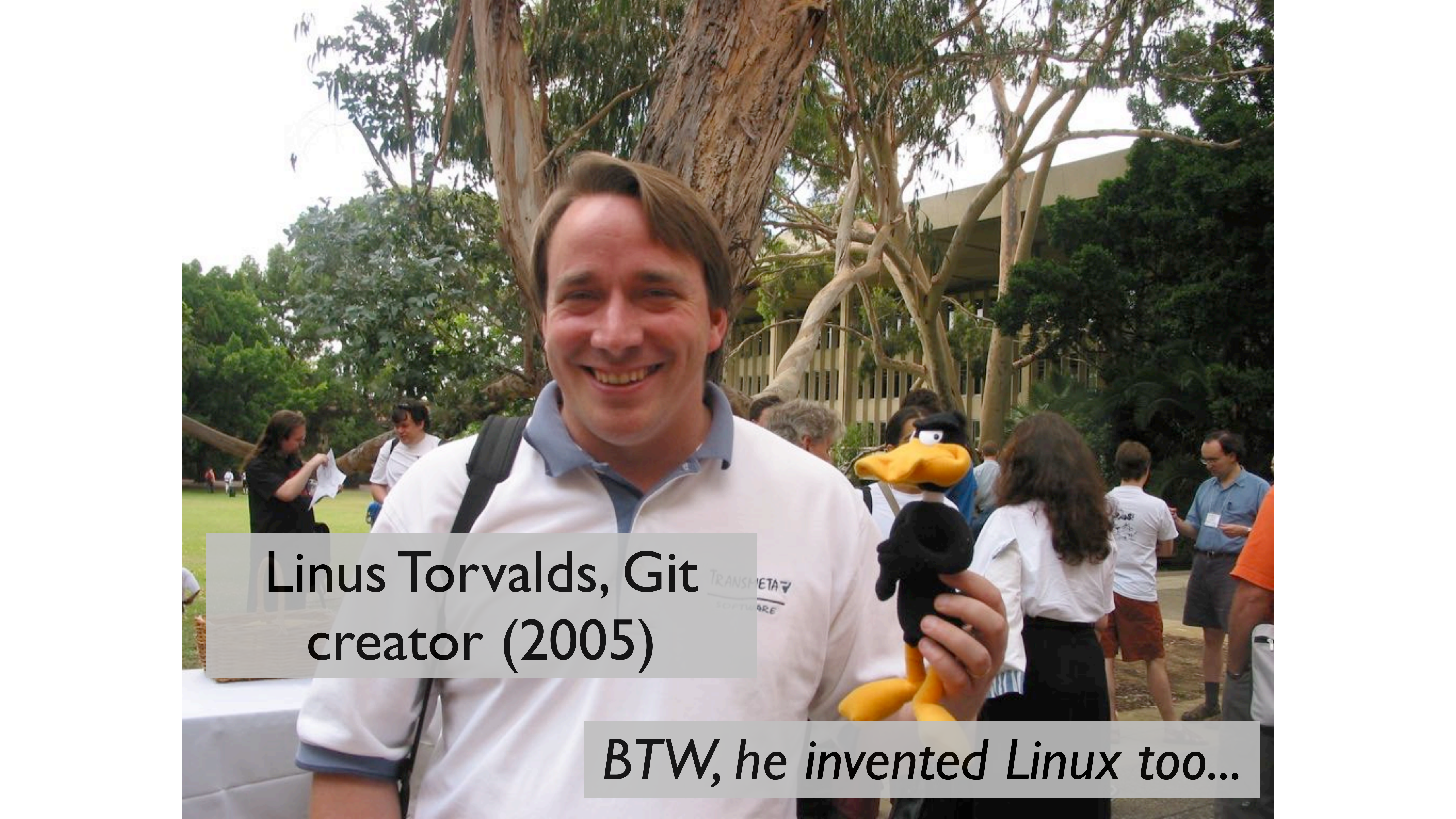
## **2008-2018**

# Web 2.0

- Wikipedia (2001)
- Tim O'Reilly's *Architecture of Participation* (2004) and *Web 2.0* (also 2004)
- Consumer Web 2.0, then Enterprise 2.0 replace older applications

- **Git**, and a bunch of other Distributed Source Control Management Systems (DSCM), appear circa 2005 to address the need of very large distributed development teams (1000s of developers for Linux)
- They allow for completely **decentralized development**, and make it much easier for developers to try out new ideas on their own, then “merge” the changes with the main development lines





A photograph of Linus Torvalds, the creator of Linux, smiling and holding a small black and yellow Tux the penguin plushie. He is wearing a white polo shirt with a 'TRANSMETA SOFTWARE' logo. The background shows a large tree and other people at an outdoor event.

Linus Torvalds, Git  
creator (2005)





*BTW, he invented Linux too...*




- A new breed of SaaS offerings for developers, such as GitHub (2008) or StackOverflow (2008), appear, leveraging many of the characteristic features of W2.0 or E2.0 applications:
  - Activity streams
  - Social networking
  - Tagging / folksonomies
  - Votes, reputation




ExploreGistBlogHelp


 sfermigier





## Stefane Fermigier


sfermigier

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 Paris, France

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 <http://fermigier.com/>


 Joined on May 08, 2010


7  
followers


25  
starred


0  
following

 Contributions


 Repositories


 **Public Activity**

 Edit Your Profile


 a month ago


**sfermigier** opened issue [mitsuhiko/flask#682](#)  
Several issues with the mailing list (librelist), time to look for an alternative?








**sfermigier** starred [nuxeo/nuxeo-drive](#) a month ago

 a month ago


**sfermigier** pushed to **master** at [sfermigier/yaka-core](#)  
 [e572174](#) Bump Flask-Assets version to 0.8.

 a month ago


**sfermigier** pushed to **master** at [sfermigier/lemooc-work...](#)  
 [03af59b](#) Clean up.




**sfermigier** created branch [master](#) at [sfermigier/lemooc-workshop](#) a month ago



**sfermigier** created repository [lemooc-workshop](#) a month ago

 a month ago

**sfermigier** pushed to **master** at [sfermigier/yaka-core](#)  
 [e8a015f](#) Fix issue with timezones.

GitHub, like SourceForge, but more social

## Top Questions

interesting

397

featured

hot

week

month

0

votes

0

answers

1

view

**PHP Curl login into APSX page, after need to post data to Login page**

php

asp.net

post

curl

double

20s ago Rafael Andrade Lott 1

0

votes

0

answers

1

view

**Mass IllegalMonitorStateException on thread wait**

java

multithreading

wait

runnable

illegalstateexception

21s ago JohnM 8

0

votes

0

answers

7

views

**How to add a symlinked JAR to an Eclipse project?**

eclipse

22s ago Robottinosino 1,411

1

vote

1

answer

12

views

**filter a lot of sensitive code from an svn repository**

svn

version-control

history

obliterate

37s ago bahrep 3,410

0

votes

0

answers

2

views

**connect to a access database in java using udl file**

java

database

ms-access

45s ago nighfox79 47

0

votes

0

answers

4

views

**Generic method return super type of type param and method parameter type param**

StackOverflow, a knowledge base based on a reputation system



# Additional tools with a social impact

- **Continuous integration** (with a strong testing culture) allows distributed development to happen with confidence that developers don't "break the build"
- **Code review** applications

# Continuous integration

Tree is open (mac dbg->ignore, needs to be restarted)

Builds: [continuous](#) | [symbols](#) | [perf](#) | [status](#)

Development: [source](#) | [reviews](#) | [logs](#)

Chromium: [view](#) | [blog](#) | [dev](#) | [support](#)

Sheriffs: [paulg](#), [nsylvain](#), [ojan](#)

Chromium	failed compile	build successful	build successful	build successful	failed ui_tests ui_tests_singleproc	failed compile
Webkit						
Modules						

Chromium last build

current activity

time (PST)	changes	Chromium XP	Chromium Builder	Chromium Builder (dbg)	XP Tests	XP Tests (dbg)	XP Tests (purify)
16:14:53		page_cycler_intl2 studio	compile studio	update studio	ui_tests studio	ui_tests_singleproc (single-process) studio	purify test; unit studio
16:14:47			check deps studio				
16:14:28			taskkill studio				
			update studio				
			update scripts studio	update studio			
			svnkill studio	svnkill studio			
16:14:20			Chromium Builder Build 1428	Chromium Builder (dbg) Build 1344			

- #8 Jul 24, 2011 10:01:21 PM
- #7 Jul 24, 2011 9:58:59 PM
- #6 Jul 24, 2011 8:28:10 PM
- #5 Jul 24, 2011 9:04:50 AM
- #4 Jul 17, 2011 3:38:58 PM
- #3 Jul 17, 2011 3:35:31 PM
- #2 Jul 17, 2011 3:34:13 PM

sample-tap [Jenkins] - Mozilla Firefox

sample-tap/

search

ENABLE AUTO REFRESH

## Project sample-tap

[add description](#)

[Disable Project](#)

[Workspace](#)

[Recent Changes](#)


### Permalinks

- [Last build \(#11\), 1 day 22 hr ago](#)
- [Last stable build \(#11\), 1 day 22 hr ago](#)
- [Last successful build \(#11\), 1 day 22 hr ago](#)

TAP Tests Count

Build	Failed	Passed	Skipped
#4	1	1	0
#5	2	1	0
#6	4	2	0
#7	4	2	0
#8	4	4	0
#9	2	4	0
#10	2	4	0
#11	4	4	0

# Code review on GitHub

 **larsmans** started a discussion in the diff 2 days ago


 doc/datasets/mldata\_fixture.py [View full changes](#)

```
... @@ -10,7 +10,7 @@
10 10 import shutil
11 11
12 12 from sklearn import datasets
13 -from sklearn.utils.testing import mock_urllib2
13 +from sklearn.utils.testing import mock_mldata_urlopen
```

 2

 **larsmans** [repo collab](#) 2 days ago

Will this also solve the intermittent failures on Travis? Pretty please? ;)

 **ogrisel** [repo collab](#) 2 days ago

I am not sure, I don't understand what the issue is with travis.

[Add a line note](#)

**FOSS “2.0+(?)” (?)**

**2018-now**

- GitHub est devenu quasiment incontournable, par application de la loi de Metcalfe
- GitHub, qui avait développé un aspect “plateforme” (i.e. permettant l’intégration de services tiers: CI/CD, audit de code, *SDLC management...*) a fini par intégrer certains de ces services, entrant ainsi en concurrence avec son écosystème
- Le rachat de GitHub par Microsoft fait par ailleurs tiquer de nombreux acteurs, et on voit l’émergence de nouvelles plateformes ou la popularité croissante de plateformes existantes

# **Conseils pratiques et activités**

## **dans le contexte d'un éditeur open source**

# People first

- Give warm welcomes to new members
- Thank contributors
- Give positive feedback
- Act quickly on new contributions (thank you, feedback, commit)
- Never forget to give credit (CONTRIBUTORS.txt, release notes)



# Make it easy to become a contributor

- It should be easy to add or fix a translation, a particular bit of documentation, a FAQ entry, etc.
- It should also be easy to contribute new modules (add-ons)
- This is the whole idea of “**The architecture of participation**” (O'Reilly, 2004)

# When to give away the “commit bit”

- New contributors have to go through a learning process and build trust before being allowed to commit directly on the code repository
- Ask them first to submit patches on the issue tracker
- Some legal paperwork can be required (CLA / CCA / DCO)
- Practices vary widely between different projects

# Engage with people

- Be generic:
  - Solicit feedback (“what do you think of...?”)
  - Ask for beta testers, bug reports
- Be specific:
  - Link to the right places (relevant space on issue tracker, forum, FAQ entry, etc.)
  - Engage with specific people

# The Roadmap

- Make the roadmap clear and visible
  - Publish plan for at least next minor and major releases
  - Include *tentative* dates and scope (make it clear it *is* tentative, though)
- Make it consistent with the Issue Tracker (and the reality)
- Ask for feedback and contributions

# Get good at Email

- (Assuming you're using a mailing list; this is probably similar w/ a forum like Discourse)
- Reformulate until everything's 100% clear
- Make your emails easy to read (short paragraphs, skip one line btw paragraphs...)
- Don't over quote previous messages, but keep some context
- Use URLs to quote previous conversations or online documents

# Blog

- Some email messages (new features, etc.) should be written as blog posts, *then* sent to the mailing list (either copied or as links)
- Put pictures or diagrams on your blog posts
- Weekly / monthly technical reports
- Reinforce with tweets and other status updates

# FAQ and READMEs

- There should be one README in each project module (even if it's only one link to a particular web page)
- Read "README-driven development" (by Tom Preston-Werner):
  - *"Write your Readme first. First. As in, before you write any code or tests or behaviors or stories or ANYTHING. I know, I know, we're programmers, dammit, not tech writers! But that's where you're wrong. Writing a Readme is absolutely essential to writing good software."*
- Constantly update the FAQ with questions asked on the mailing list or feedback from the community



# Community vs. Support

- If someone's obviously using the community as a substitute for support, let others deal with him
- Don't support people that never give anything in return
- Aggressive people should be dealt with with care, and certainly not by being aggressive in return

# Community vs. Sales

- When you identify interesting people in the community, pass useful information to sales
- Sometimes hint that we are doing interesting projects for real customers (without giving away confidential information)
- Give information to help people make their case for using the product in their organization

# Make it easy to build our software

- Indispensable pour avoir des contributeurs (et des utilisateurs)
- Old way:
  - “./configure ; make ; make install”
- New way:
  - “pip install .”, “mvn install”, “npm install”, “go build”, etc.
  - Or docker / docker-compose

# Provide good documentation

- C'est un métier ("Technical writer"), mais aussi une activité à ne pas négliger pour les développeurs
- Intégration avec le code ("API doc", etc.)
- Outils populaires: Sphinx, Mkdocs, etc.
- Sources:
  - <https://www.writethedocs.org/>
  - Books

# Practice open decision making

- Processus de décisions transparents, concernant notamment:
  - Les corrections et améliorations mineures (bug trackers publics)
  - Les améliorations substantielles (ex: “PEPs = Python Enhancement Proposals”)
  - La nomination des personnes décisionnaires



# Dealing with poisonous people

- “Code of conduct” / “Charters”
- Enforcement
- Cf. Cathy Sierra évoqué en début de présentation

# Relationship with other communities

- Upstream: languages, libraries
- Sidestream: plugins creators
- Downstream: packagers (e.g. for Linux distributions)
- Customers: OSPOs

# Recap

- It's about **people, first**: getting to know each other, making sense of the crowd, creating a sense of belonging
- Always be **respectful, transparent, authentic** and **helpful**
- Contribute to the **architecture of participation**

# References / Credits

- <https://producingoss.com/> (Karl Fogel)
- <http://www.artofcommunityonline.org/> (Jono Bacon)
- <http://www.slideshare.net/bdelacretaz/life-in-open-source-communities-apachecon-us-2009> (Bertrand Delacretaz)
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- <http://lwn.net/Articles/370157/> (Josh Berkus)
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