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# TIKI SUITE

## Going beyond Tiki Wiki CMS Groupware

Server, Web, Desktop and Mobile suite



# MARC LAPORTE

- Founded AvanTech.net in 1999
- Offers tech services mostly to small and medium organizations
  - And a few larger ones
- Over 200 projects in 15 years

# TIKI SUITE

Tiki Suite is a selection of Free / Libre / Open Source Software (FLOSS) server, web, mobile and desktop apps with a concerted effort for greater interoperability and security, which is aimed at small & medium-sized organizations.

The Tiki Suite is especially suited to decentralized and knowledge-centric organizations and offers the features that what 80% of the people use 80% of the time (collaboration, office productivity, publishing, etc.).

Features include: Email + Wiki + CMS + Groupware + Commerce + Accounting + Document Management + CRM + Web conferencing + Desktop sharing + PBX VOIP Telephony + Instant messaging & presence + Video management + E-learning, etc.

# USE CASE

- |   |   |
|---|---|
| <ul style="list-style-type: none"><li>• 10 to 100 employees</li><li>• External consultants, partners &amp; volunteers</li><li>• Multilingual, distributed &amp; mobile work force</li><li>• Knowledge workers</li></ul> | <ul style="list-style-type: none"><li>• CMS / Portal / Blog / Web Publishing / Newsletter</li><li>• Intranet / Extranet / Collaboration / Document Management / Wiki / Groupware / Project Management</li><li>• CRM / Customer support / Social Networking</li><li>• E-Commerce / ERP / Payment / Accounting / Business Intelligence (BI)</li><li>• Online training / tech support / Issue tracker / Knowledge base</li><li>• Social networking / Community</li><li>• Office suite / Personal Information Management (PIM)</li><li>• Web conferencing / chat / telephony / Remote Desktop</li><li>• Framework: App builder (forms &amp; reports), Workflow, Profiles, Advanced wiki syntax, etc.</li><li>• Etc.</li></ul> |
|---|---|

This represents **millions** of organizations

# HISTORY

- In 2003, I embarked on a quest to make Tiki become a "web-based integrated virtual desktop" / "Web operating system"
  - Each new project was an opportunity to add / improve Tiki features and Tiki eventually became the FLOSS web application with the most built-in features
- 2011: Launched the Tiki Suite project and started analysis.
- 2012: A prototype with ClearOS 5.2 was conclusive.
  - ClearOS 5.2 is awesome but is a distro with components from 2007-2008, and we prefer to build Tiki Suite on version 6.x (so we continued to improve Tiki)
- 2013: Redo the tests and update the analysis based on ClearOS 6.4
- 2014: After hundreds of hours of research, analysis & testing, some trial & error with the components, I am ready to go and confident of the "future-proofness" of the solution.
- 2015: Improvements in packaging and interoperability of various components

# WHY THE NAME?

- It's a suite of applications around Tiki
- Suite means "next step" in French, so "next step for Tiki"
- But what is Tiki?



# TIKI WIKI CMS GROUPWARE: THE GENERAL IDEA

- **T**ightly **I**ntegrated **K**nowledge **I**nfrastructure
- Combination CMS + Wiki + Groupware + a lot more!
- Free / Libre / Open Source (LGPL)
- Like Wikipedia, but for code instead of content
- Each project is unique, but some are more unique than others. Tiki is the Free / Libre / Open Source Web Application:
  - [with the most built-in features.](#)
  - [with the fastest release cycle](#)
- Over a **million** lines of code, including half from 3rd party libraries such as jQuery, Smarty and Zend Framework, and thus "Standing on the shoulders of giants".
- [Downloaded over 1 million times](#)
- Translated into 40+ languages
- 1200+ pages of documentation
- 300+ code committers since 2002. "This is one of the largest open-source teams in the world, and is in the top 2% of all project teams on Open Hub."
  - source: [ohloh.net/p/tikiwiki/factoids](http://ohloh.net/p/tikiwiki/factoids)
  - [550+ contributors with commit access](#)
- Runs on standard PHP / MySQL making web hosting **easy and inexpensive**
- A new code commit **every two hours**
- **But mostly...**

# HUNDREDS OF BUILT-IN FEATURES

Action log Alert Articles & Submissions Backlinks Banner Blog Bookmark Browser Compatibility Cache Calendar Category Charts Chat Comment Communication Center Compression (gzip) Contact Address book Contact us Content template Contribution Cookie Copyright Custom Home (and Group Home Page) Date and Time Debugger Console Directory (of hyperlinks) Documentation (Help System) DogFood Drawing Dynamic Content Dynamic Variable External Authentication FAQ Featured links File Gallery Forum Friendship Network (Community) Game Gmap Google maps Group Help System Hotword HTML Page i18n (Multilingual, l10n, Babelfish) Image Gallery Install Integrator Interaction Inter-User Messages InterTiki Karma Live Support Login Lost edit protection Mail-in Maps Menu Meta Tag Mobile Module Multimedia MultiTiki MyTiki Newsletter Newsreader Notepad OS independence (Non-Linux, Windows/IIS, Mac, BSD) PDF Performance Speed / Load Permission Poll Profile Manager Quicktags Quiz Rating Registration RSS Score Search Engine Friendly Search Security Semantic links Shadowbox Shoutbox Site Identity Slideshow Smarty Template Smiley Spam protection (Antibot CATPCHA) Spreadsheet Stats Survey System log Tags Task Tell a Friend + Social Bookmarking TikiTests Theme Trackers TRIM User Administration User Files User Menu Watch WebHelp Webmail Wiki 3D Wiki History, page rename, etc Wiki plugins extends basic syntax Wiki syntax text area, parser, etc Wiki structure (book and table of content) Workflow, WYSIWYCA WYSIWYG XMLRPC

**Over 1200 settings/options in the admin panel!**

**The Free / Libre / Open Source Web Application with the most built-in features. There are so many, we had to add a search engine in the admin panel!**

**Other popular apps have a different model: small core + loads of functionality in 3rd party add-ons.**

## BUT...

- **No hunting** around to find the best 3rd party module
- No needing to **re-install 3rd party modules** at every upgrade, hoping they all still work!
- Because, in Tiki, everything is built-in and developers **collaborate** on and **extend** features, instead of just cooperating around a core (when they are not just outright competing...). And **upgrades are easy!**
- Do you have two wiki pages for the same thing? No. Why would it be so for features?
- More later about the model, let's describe some features!

## PERMISSIONS & GROUPS

- Users can be in any number of groups
- Groups can be included in groups
- Registration system
- Over 200 permissions, which can be:
  - System-wide (global)
  - by item (object)
  - by category (workspaces)

## Assign global permissions

### Permissions

Filter:

☒ Toggle sections ☐ Show only selected

	Anonymous	Registered	Admins	Synso	Permission
► articles					
▼ blogs					
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Can admin blogs ( <i>tiki_p_blog_admin</i> )
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Can assign perms to blog ( <i>tiki_p_assign_perm_blog</i> )
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Can post to a blog ( <i>tiki_p_blog_post</i> )
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Can create a blog ( <i>tiki_p_create_blogs</i> )
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Can read blogs ( <i>tiki_p_read_blog</i> )
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Can view in module and feed the blog posts ( <i>tiki_p_blog_post_view_ref</i> )
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Can view in module and feed the blog ( <i>tiki_p_blog_view_ref</i> )

Object permissions interface

## WIKI ENGINE

- Powerful wiki syntax
- Powerful version history and diff engine
- Book and table of content
- Email notification of changes
- Advanced plugins
- Advanced translation synchronization



## TRACKER & FORM GENERATOR & REPORTS

- Create custom application
- Bug tracker, application forms, contact forms, etc.
- Can create reports in wiki pages
- Multilingual

- Can link to other trackers
- 20+ field types
  - text field, text area, checkbox, numeric field, drop down, radio buttons, user selector, date and time, image, category, email, auto-increment, Maps, computed field, attachment, etc.

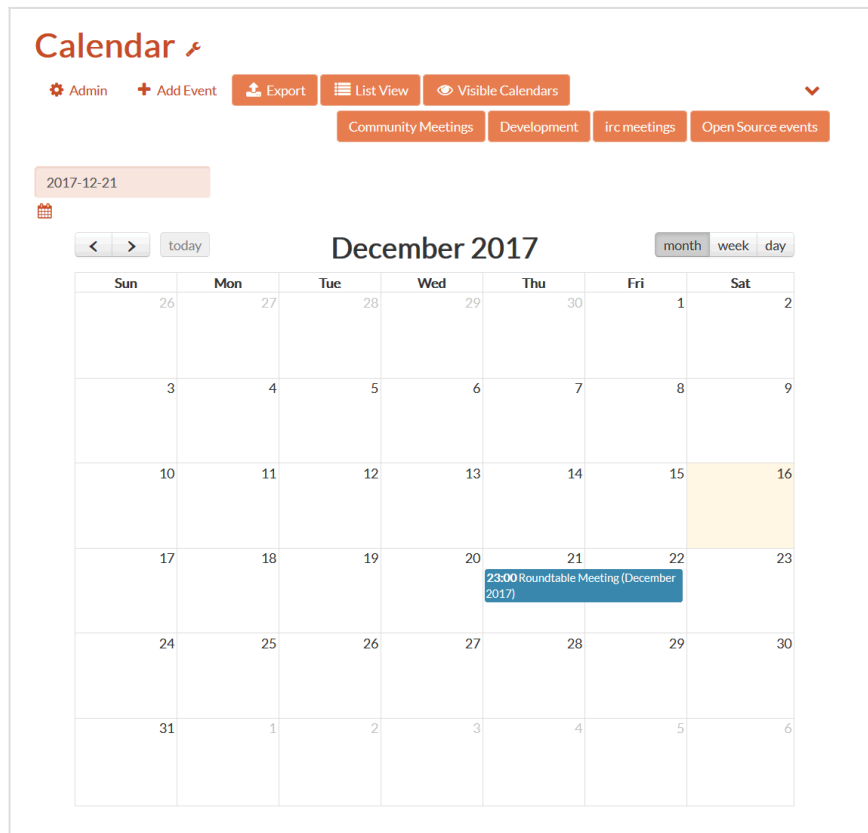
**Tracker Fields: Featured Tikis**

[+ Add Field](#)
[Import Fields](#)
[Properties](#)
[Fields](#)
[Trackers](#)
[Items](#)

<input type="checkbox"/>	ID	Name	Type	List	Title	Search	Public	Mandatory	Actions
<input type="checkbox"/>	171	<a href="#">Site owner/operator</a> tikiFeaturedName	Text Field	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	172	<a href="#">Contact email</a> tikiFeaturedEmail	Email	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	173	<a href="#">Site name</a> tikiFeaturedSiteName	Text Field	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	174	<a href="#">URL</a> tikiFeaturedURL	URL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	175	<a href="#">Site description</a> tikiFeaturedWhy	Text Area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	176	<a href="#">ItemID</a> tikiFeaturedItemID	Auto-Increment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	177	<a href="#">Screenshot</a> tikiFeaturedScreenShot	Files	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	192	<a href="#">Site submitter</a> f_192	User Selector	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	193	<a href="#">Accepted</a> accepted	Checkbox	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	194	<a href="#">Categories</a> categories	Multiselect	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## CALENDARS

- Several calendars
- iCal
- Recurring events
- RSS feeds
- Distinct permissions



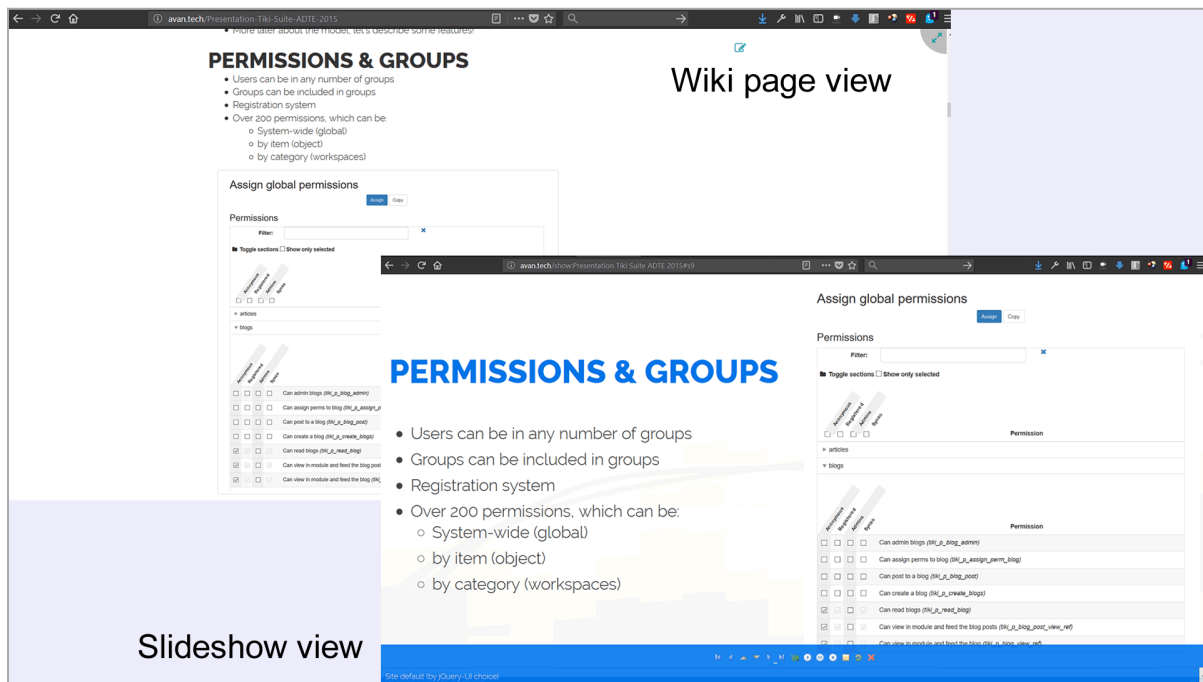
## BLOG & NEWS ARTICLES

- Several blogs
- Topics
- Tags & categories
- RSS feeds
- Permissions
- Can use wiki syntax



# SLIDESHOW

- You are currently watching it!
- Made from wiki pages
- Slide notes, for a second screen
- Timer
- Uses S5 standard



Wiki page and slideshow screen

# DISCUSSION FORUMS

- Threaded or flat forums
- Mailing list integration
- Can use wiki syntax
- File Attachment
- Email notification of replies




## Features / Usability

Discussion about features and usability of Tiki.






- Can Tiki do X? If so, how?





(Please login to participate.)





[+ New Topic](#) [Edit Forum](#) [Forum List](#) 






Forums » Features / Usability

Moderator actions on selected topics

   Select a filter 

Page 1   1 - 20 / 8669 (8669)  Rows 20 

<input type="checkbox"/>	Type	Title	Replies	Reads	Rating (avg/max)	Last Post	Author	Language	
<input type="checkbox"/>	Normal	<a href="#">wiki syntax: text-align right?</a>	4	811	- / 5	about 19 hours ago <i>Re: Re: wiki syntax: text-align right?</i> by Rick Sapir / Tiki for Smarties	Maeve	en	
<input type="checkbox"/>	Normal	<a href="#">Mention other user in comment</a>	2	111	5 / 5	4 days ago <i>Re: Mention other user in comment</i> by Wiebe	Wiebe	en	
<input type="checkbox"/>	Normal	<a href="#">can Tiki be used to operate a paid membership site?</a>	2	574	- / 5	7 days ago <i>Re: Re: can Tiki be used to operate a paid membership site?</i> by Bernard Slez / Tiki Specialist	se7en	en	
<input type="checkbox"/>	Normal	<a href="#">Open pdf from a menu option in a new window</a>	2	221	- / 5	8 days ago <i>Re: Open pdf from a menu option in a new window</i> by Santiago Peralta Cabrera	Santiago Peralta Cabrera	en	

## FILE & IMAGE GALLERIES

- Hierarchical galleries
- Check-in/Check-out/lock
- Categories for files
- Permissions
- Watch (notification of change by email)
- WebDAV support

**TikiFest FOSDEM 2017**

+ Create   Upload   Draw   SlideShow

Find... Find   Search in content... Go

File Galleries > TikiFests > TikiFest FOSDEM 2017

Branding  
Config files  
Consultants  
Demo files  
Drawings  
Error-Message-Screenshots  
Esquisses  
Featured Tikis  
Galaxia Processes  
Images for Editors and Gardeners  
IrcLogger  
JCapture  
Jgraph JGX and LIB files  
Maps  
Miscellaneous  
Promo Sheets  
Roundtable files  
Security (restricted)  
Smarty Aids  
System AddOns  
Tiki Info  
Tiki Profile Images  
Tiki Service

Providers  
Tiki Suite  
TikiFests  
TikiPackagesDev  
TikiWiki Files

Comments

Parent Gallery

P1090781   P1090788   P1090794   P1090796

P1090786   P1090770   P1090781   P1090778

P1090774

Select All  
Select action to perform with checked... OK

Browse file gallery

## DRAWINGS

- Vector drawing
- Shapes & lines
- Stored in SVG
- Integrates SVG-edit (JavaScript)
- Layers

# SCREENCAPTURE AND SCREENCAST

- Select screen area
- Capture screenshot as PNG, JPG, etc.
- Record video
  - Audio from microphone
  - Pause during the recording
  - Play before upload
  - Post-recording editor to remove frames
  - Pick splash frame
  - Generates a .swf file
- Integrates jCapture applet

## MULTILINGUAL

- Translated to 40+ languages
- Wiki has awesome i18n change tracking
- Wiki-translation.com

The screenshot displays a web-based translation management interface. At the top, a large heading reads "Update 'Call for Participation' based on 'Appel à Participation'". Below this, two columns of text are shown side-by-side, representing different language versions of the same content. The left column contains French text, and the right column contains English text. Both columns have green highlights indicating areas of interest or change. Below the text, a section titled "Thèmes abordés" (Topics addressed) lists two bullet points: "Méthodes de traduction collaborative" and "Projets de traduction". At the bottom of the main content area, a note states: "Note: This edit session will expire in 24 minutes. Preview or Save your work to restart the edit session timer." Below the note, there is a section labeled "Edit:" with a small icon of a document and a list of items. The main text area at the bottom contains the title "Babel Wiki Workshop: Cross-Language Collaboration" and the subtitle "!Workshop Goal". The main text area also contains the sentence "The goal of this workshop is to explore how wikis and".

**Update 'Call for Participation' based on 'Appel à Participation'**

espèrent trouver des façons de rejoindre de nouvelles communautés linguistiques. Le financement est confirmé pour les participants ayant besoin d'aide avec les coûts de transport.

espèrent trouver des façons de rejoindre de nouvelles communautés linguistiques.

**Thèmes abordés**

- Méthodes de traduction collaborative
- Projets de traduction

**Note:** This edit session will expire in 24 minutes. **Preview** or **Save** your work to restart the edit session timer.

**Edit:**

Babel Wiki Workshop: Cross-Language Collaboration

!Workshop Goal

The goal of this workshop is to explore how wikis and

Translation management interface

# THE TIKI MODEL

- Wiki community
  - Do-ocracy, P2P
- Wiki way participation to the code
- All-in-one codebase
  - Inherent synchronized releases
- Lots of features, but no duplication
  - Do you have two wiki pages for the same thing? No. So, why would it be so for features?
- Dogfood
  - \*.tiki.org sites are upgraded before a .0 is released
- Scheduled releases (twice per year)
  - Long Term Support (LTS) every third release, with 5 year support
- Commercial eco-system based on services, not code.
  - All code is shared

tiki.org/Model

## BENEFITS & CHALLENGES

### Offers **benefits**

- Tons of features, without duplication, excellent code re-use and code review, more collaboration, tight integration, easy upgrades, excellent interaction between features, etc.
- Permits huge changes between versions because we don't have to worry about breaking 3rd party extensions.
- Less code for the community to maintain: [http://en.wikipedia.org/wiki/Technical\\_debt](http://en.wikipedia.org/wiki/Technical_debt)
- No abandoned module, because a new shiny one just came out
- No dependency hell (needing to re-install 3rd party modules at every upgrade, hoping they all still work!)
- No hunting around to find the best 3rd party module

### But does bring **challenges**

- Huge code base to maintain
- Admin panels with hundreds of features for a total of over 1200 settings/options! (we had to add a search!)
- Learning curve: 1200+ pages of documentation
- What should be sensible defaults?

## MORE ABOUT COMPLEXITY AND FILES

Tiki 7.1 contains 11348 files and it's the FLOSS Web application with the most built-in features. About half the code in Tiki is maintained by the Tiki community and the other half is re-using code from external libraries like Smarty, Zend Framework, jQuery, etc.

So say we maintain about 6000 files. Sounds like quite a bit, but let's put this into perspective:

- Joomla! has 9463 "extensions"

- Drupal has 15948 "modules"
- WordPress has 19382 "plugins"

Tiki covers the vast majority of features that these 3 systems offer via the thousands of extensions. So just about any project you could do with Joomla!, WordPress or Drupal, you could also do it with Tiki. Yet, they have more extensions to maintain than we have files! (and since they can't possibly maintain them all, it leads to dead-end extensions and disappointed end-users).

See: <https://tiki.org/Coping+with+Complexity>  
[http://en.wikipedia.org/wiki/Technical\\_debt](http://en.wikipedia.org/wiki/Technical_debt)

## PROFILES.TIKI.ORG

Instead of having thousands of extensions, we collaborate on the code base, and can make very specific apps thanks to profiles.

- Value of a free source project
  - Beyond code: the community and the experience
  - Combining the different features, producing new benefits never imagined by the authors
  - How to share this knowledge?
- Profiles to configure your Tiki
  - On wiki pages (collaborative, version history, etc.)
  - Can be used not just at install, but **at any time** and can be **combined**
  - Not just for **settings**, but also for **data**
  - Since there is no extra code, can be designed for very specific, long tail uses

We can have hundreds of profiles for an out-of-the-box experience, with a single code-base!

## TIKI NIH SYNDROME?

"Not Invented Here (NIH) is a term used to describe persistent social, corporate or institutional culture that avoids using or buying already existing products, research or knowledge because of their external origins. It is normally used in a pejorative sense, and may be considered an anti-pattern." Source: Wikipedia

Half of the code in Tiki comes from other projects! Tiki includes code from over 60 external libraries, including:

- |  |  |  |
|--|--|--|
| • Zend Framework, including Zend_Search_Lucene | • SWF upload                           | • CodeMirror Syntax highlighting                                       |
| • jQuery & jQuery UI javascript library        | • HTML Purifier                        | • Minify library   |
| • jQuery Mobile                                | • SVG-edit drawings                    | • Some Pear and Zeta libs (Pear-Auth, XMLRPC, Net_LDAP2, WebDAV, etc.) |
| • Bootstrap (coming in Tiki13)                 | • jquery.sheet spreadsheet             | • phpCAS   |
| • Smarty template engine                       | • jquery.s5 slideshow                  | • Many more...   |
| • CKEditor WYSIWYG                             | • Raphaël graphics & charts            |  |
| • Simile widgets (timeline)                    | • Mobile ESP (mobile device detection) |  |
|  | • OpenLayers maps                      |  |

# TIKI INTEROPERABILITY

- BigBlueButton Web conferencing
- OPcache, XCache, Memcached and APC
- R (statistics & maths for any science)
- GD & ImageMagick
- Zotero (references)
- OpenLayers (OpenStreetMaps, MapServer and GoogleMaps)
- Cclite (community currency)
- PayPal
- Various authentication (phpBB, LDAP, Shibboleth, CAS, OpenID, etc.)
- Subversion
- Kaltura video platform
- 40+ examples at <https://doc.tiki.org/Interoperability>

## HOW MUCH IS IT "WORTH"?

- \$20 million according to the Basic COCOMO model
  - [https://www.openhub.net/p/tikiwiki/estimated\\_cost](https://www.openhub.net/p/tikiwiki/estimated_cost)
  - "Beyond just development time, COCOMO is meant to include the design, specification drafting, reviewing and management overhead that goes along with producing quality software."
- Yet, the Tiki Software Community Association (TSCA) has no employees
- Tiki doesn't depend on any funding from any company, foundation, government or anyone. It thrives thanks to the community.



## WHY THIS EVOLUTION?

- So things are good, why change?

**We need friendly software on the server and on the client computer and mobile device to avoid dealing with so many permutations and be able to develop advanced features and tight integration.** Ex.: We have a Tiki chat feature, but we can't do presence.

# OVERLAP & INTEROPERABILITY & THE TREND TO SUITES

- **Best of breed** vs. **suites** vs. **feature bloat**
- While Ted Nelson coined "Intertwingularity" to express the "complexity of interrelations in human knowledge", it's the same problem for software. There will always be overlap.
- Apple controls both the hardware and the software which make it much simpler (drivers, UI, etc.)
- Every app claims interoperability (ex.: via open standards)
  - It's very hard! Even within apps of a same publisher!
- Because of Zawinski's law ("Every program attempts to expand until it can read mail. Those programs which cannot so expand are replaced by ones which can." ), intertwingularity and the progressive move to Web Applications, more & more apps and SaaS will offer "everything".
- "It's best to do one thing really, really well." -Google
  - Google started just with search. And now? 😊

## WHAT IS STATUS OF TIKI SUITE?

- The good
  - Each component is *fantastic*, and the future is bright
  - All risky / major / strategic components have been selected, and they all fit well together, with minimal overlap
- The bad
  - It's still a manual process to assemble all the parts of the Suite (we are working on this)
  - Some less critical components (like Desktop virtualization) still need to be picked (but there are many good options)
- The ugly
  - Some components don't yet interoperate well even though they *should* (It proves the relevance of this project!)

## HOW TO PICK APPS?

- This is a long-term strategic decision
- Sound architecture/technology?
- Compatible license?
- Compatible community model?
- Active community?
- Same programming languages as us?
- Is SaaS available?
- Will the project be doing well in 5-10 years?

<https://suite.tiki.org/Tiki+Suite+Component+criteria>

# BLACK DUCK OPEN HUB

- Best place to discover & analyze FLOSS projects
- Compare software by tag, check activity level, number of contributors, recent commits, code analysis
- Users add software to their "stacks"



# CLEAROS

- Similar to CentOS but with slick, integrated UI and tons of features for a distributed organization. Can be on premise or hosted. ClearCenter offers paid services (ex.: remote backups, domain names, etc.) and hardware (ClearBOX)
- Gateway
  - Anti-Phishing & Anti-Malware
  - Snort network intrusion prevention and detection system (IDS/IPS)
  - Bandwidth manager
- Network
  - Firewall
  - VPN
- Server
  - OpenLDAP
  - PHP & MySQL
  - BackupPC
  - Samba Print & File Share



# MAIL - CALENDAR - CONTACTS WITH ZARAFA & THUNDERBIRD

- Webmail
- Address book, connects to OpenLDAP (which is part of ClearOS)
- Calendar
- ActiveSync for offline access on any mobile device
- Offline email with Thunderbird (and Lightning for Calendar)
- Virtual & Spam filters, server-side filters, etc.



# REALTIME COMMUNICATION / PRESENCE / VIDEOCONFERENCE / DESKTOP SHARING WITH JITSI CLIENT

Jitsi (previously SIP Communicator) is a cross-platform VOIP, videoconference, desktop sharing (including remote control) and chat client.



Protocols supported include SIP, XMPP (Jabber) / Google Talk / Facebook chat, AIM/ICQ, Windows Live, Yahoo! Messenger and Bonjour.

Other features include: Call recording, Call & chat encryption, Noise suppression, Echo cancellation, File transfer, multi-user chat, Desktop streaming, Presence, Conference calls, Integration with Microsoft Outlook and Apple Address Book, Support for LDAP directories, Support for Google Contacts, On-line provisioning, Systray notifications, IPv6 support, Spell checker and many more.

Platforms: Windows, Mac, Linux, Android



## REALTIME COMMUNICATION (SERVER SIDE)

Jitsi handles the client-side. Server side, we need:

- Prosody XMPP server
- FreeSWITCH + Fusion PBX (front-end): SIP telephony, Voice Mail, PBX, extensions, etc.
- JitMeet web interface
  - A WebRTC-powered multi-user videochat.
  - Uses Jitsi Videobridge and an XMPP server such as Prosody.
  - Built using [colibri.js](#) and [strophe.jingle](#)



## BIGBLUEBUTTON

- Main use case: Online Learning
- Audio-Video-Chat-Screensharing-Whiteboard
- Record & playback
- Flash front end. Composed of a dozen FLOSS components (FreeSWITCH, Red5, Java, Tomcat, etc.).
- Android client
- Integrated with Tiki
- [HTML5 version in development, supported by Mozilla](#)



## DESKTOP APPS / VIRTUAL DESKTOPS

- Edit ClearOS Flexshare files (Samba) via OpenVPN
- Access a virtual desktop (Any OS) via RDP or VNC, which has both software and files.
- Can be with VirtualBox or KVM
- BackupPC can be used to backup from client PCs to the ClearOS server

## KALTURA VIDEO PLATFORM

- Full-featured platform
- Recording from webcam

- Handles transcoding
- HTML5 player
- SaaS available.
- Integrates with Tiki (SSO)



## PIWIK

- PHP/MySQL Web analytics
- Easy to integrate, nice feature set, nice UI.
- There is a mobile client



## ELASTICSEARCH

- By default, Tiki uses MySQL, but if/when your site has high performance requirements, you can easily replace with Elasticsearch
- Analytics
- Faceted search
- Natural Language Processing (More Like This, etc.)
- Super fast & scalable
- Easy to deploy
- Already integrated with Tiki
- Also see Kibana, Elasticsearch's data visualization engine

## SYNCTHING

Syncting replaces proprietary sync and cloud services with something open, trustworthy and decentralized. Your data is your data alone and you deserve to choose where it is stored, if it is shared with some third party and how it's transmitted over the Internet.

Source: <http://syncting.net/>

- Efficient sync between Windows, Mac, GNU/Linux and Android
- Bootstrap GUI
- Goal is to use for offline sync of File Galleries (developers or sponsors needed!)



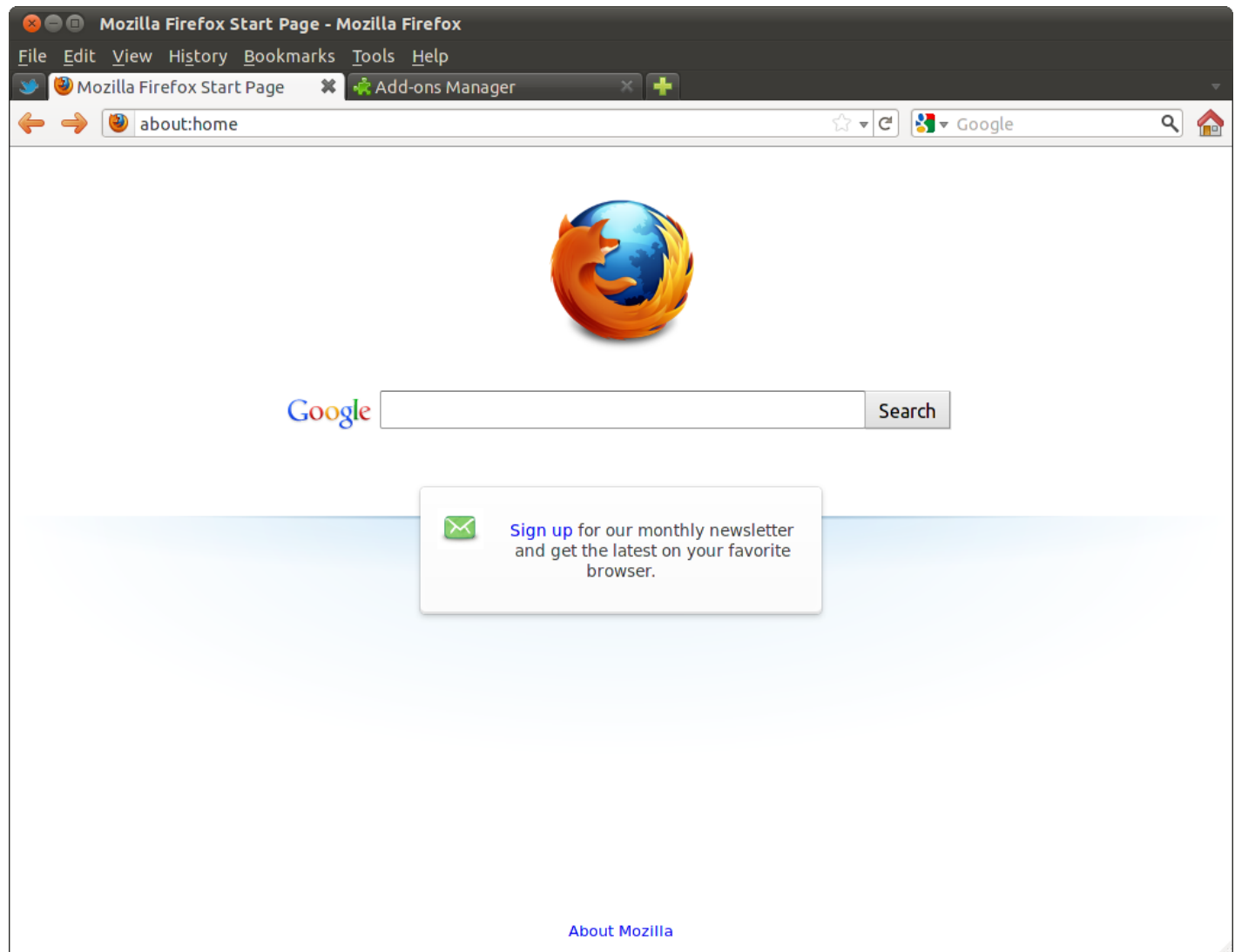
## KEEPPASS

KeePass is a popular, full-featured FLOSS password manager. Beyond passwords, you can also attach files to password entries (ex.: PGP signature files, sensitive spreadsheets, contracts, etc.), which is immensely useful.



# FIREFOX

- Used to connect to most apps, and admin panels
- Firefox has a rapid release cycle (a new version every 6 weeks or so) and thus, we will take advantage of the new features as they come out.
- Alternatively, you can use any modern Web browser.



# LXDE AND LXLE

- LXDE is a lightweight GNU/Linux desktop environment with the "classic desktop" metaphor"
- LXLE is a respin of Lubuntu with LXDE and a lot of included software. Suitable for old PCs



# ROADMAP

- All major components are picked. Get communities collaborating.
- Compatibility challenges are discovered (workaround, fix, etc.) Ex.: Piwik & Clipperz (A password manager) conflict!

- First a recipe, then a scripted install and eventually a Tiki Suite Appliance (replace our current live Tiki CD)
- More features
  - Deploy TogetherJS to all Tiki features
  - Password management
  - More ERP & Human Resource Management features (ex.: payroll)
  - Building automation, access cards, etc.
  - Source Control Management
  - Digital currency
  - Distributed Social Networking / Friend to Friend (F2F)
- <https://suite.tiki.org/Tiki+Suite+Roadmap>

## HOW TO PARTICIPATE

To participate, simply [create an account on tiki.org](#) and start participating. This site is a wiki. If you need/prefer to contact someone in private (ex.: media inquiry), please write to marclaporte at this domain name.

You should also create an account and join Tiki Wiki CMS Groupware & Tiki Suite group on the ClearOS site <http://www.clearfoundation.com/Community/Groups/141/Viewgroup.html>

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## QUESTIONS?

Tiki Suite: [suite.tiki.org](http://suite.tiki.org)

The Tiki model: [tiki.org/Model](http://tiki.org/Model)

<http://marclaporte.com/Contact>