Tiki Suite

Going beyond
Tiki Wiki CMS Groupware

An integrated suite of open source collaboration & publishing tools for small & medium-sized organizations, featuring Wiki + CMS + Groupware + Commerce + Document Management + CRM + Web conferencing + Video editing + E-learning, etc.

12èmes RMLL, 12 juillet 2011, Strasbourg

Conférence en Français sur support en Anglais
(this is the last slide containing french language)

Jean-Marc Libs, développeur Tiki, consultant

Jonny Bradley, Tiki developer, consultant
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• What is Tiki Suite?

The updated status of Tiki Suite is available on-line: http://suite.tiki.org
What is Tiki?

Tiki Wiki CMS Groupware

- Tightly Integrated Knowledge Infrastructure
- Combination CMS + Wiki + Groupware +++
- Open Source (LGPL)
- 225 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 Ohloh.” source: http://www.ohloh.net/p/tikiwiki/factoids/
- 4x faster release schedule (every 6 months) than comparable apps (Drupal, Joomla!, Plone)
- 900 000+ downloads so far
- Translated into 40+ languages
- 1000+ pages of documentation
- Runs on standard PHP/MySQL making web hosting easy and inexpensive
- Over a million lines of code (including 3rd party libraries such as jQuery, Smarty and Zend Framework)
- A new code commit every two hours
- But mostly…
• 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)
What is Tiki?

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
What is Tiki?

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, Google Maps, computed field, attachment, etc.
What is Tiki?

Calendar

- Several calendars
- iCal
- Recurring events
- RSS feeds
- Distinct permissions
What is Tiki?

Blog & news articles

• Several blogs
• Topics
• Tags & categories
• RSS feeds
• Permissions
• Can use wiki syntax
What is Tiki?

Discussion forums

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

File & image galleries

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

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What is Tiki? 9/11
Multilingual

- Translated to 35+ languages
- Wiki has awesome i18n change tracking
- Wiki-translation.com

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

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

The Tiki model

- Wiki community
- Wiki way participation to the code
- All-in-one codebase
  - Inherent synchronized releases
- Lots of features, but no duplication
- Dogfood
- Scheduled releases (twice per year)
  - LTS every 3-4 releases

- tiki.org/Model
What is Tiki?

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.

• **But does bring challenges**
  • Huge code base to maintain.
  • Admin panels
    • hundreds of features
    • with a total of over 1000 settings/options! (we had to add a search!)
  • Learning curve: 1000+ pages of documentation
  • What should be sensible defaults?
Why Tiki Suite?

Use case

• 2 to 100 employees, volunteers, members, ...
• External consultants, partners & volunteers
• Multilingual, distributed & mobile work force
• Knowledge workers

• This represents millions of organizations
Why Tiki Suite?

Diverse needs

• CMS / Portal / Blog / Publishing
• Intranet / Extranet / Collaboration / Document Management / Wiki / Groupware / Project Management / Forms / Framework
• CRM / Customer support / Social Networking
• E-Commerce / ERP / Accounting
• Online training / tech support / Issue tracker
• Web conferencing / chat / telephony
• Etc.
• Tiki: the Open Source Web App with most built-in features

• Tiki is PHP / MySQL / Zend Framework / Smarty / jQuery

• But starting to be limited by its technology (PHP/MySQL/JavaScript on shared hosting) to address all the needs. Some functionality, like video editing, doesn’t make sense in PHP/MySQL.
Why Tiki Suite?

Answering challenges

- Multiple systems
- Diverse needs
- Desktop centric
- Interoperability is very difficult
- Difficult to do tech support
Why Tiki Suite?

Trend to suites

• “It’s best to do one thing really, really well.”
  – Google

• Google started just with search. And now? :-)

5/7
Why Tiki Suite?

Tiki NIH Syndrome?

• Tiki bundles a lot of outside code!
  • Zend Framework, including Zend_Search_Lucene
  • jQuery & jQuery UI javascript library
  • jQuery Mobile
  • Smarty template engine
  • CKEditor WYSIWYG
  • Simile widgets (timeline)
  • SWF upload
  • HTML Purifier
  • SVG-edit drawings
• jquery.sheet spreadsheet
  • jquery.s5 slideshow
  • Raphaël graphics & charts
  • Mobile ESP (mobile device detection)
  • OpenLayers maps
  • CodeMirror Syntax highlighting
  • Minify library
  • NuSOAP
  • Some Pear and Zeta libs (Pear-Auth, XML-RPC, Net_LDAP2, WebDAV, etc.)
  • phpCAS
  • Many more…
Why Tiki Suite?

Tiki interoperability

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

Is Tiki Suite vaporware?

• Uh… Yes and no :-)

• The good: Tiki already integrates with several major components (BigBlueButton, Kaltura, etc.)

• The bad: It's still a manual process to assemble all the parts of the Suite

• The ugly: Some parts of the Suite have yet to be decided on.
What is Tiki Suite? 2/15

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?
What is Tiki Suite?

There are risks

• SalesForce bought DimDim web conferencing, and ceased open source version

• Google Wave shut down because “Wave has not seen the user adoption we would have liked”

• Shadowbox component changed its licence, so we switched to colorbox
What is Tiki Suite?  4/15

BigBlueButton

- Audio-Video-Chat-Screensharing-Whiteboard
- Flash front end. Composed of a dozen Open Source components (Asterisk/Freeswitch, Red5, Java, Tomcat, etc.). Android client (only chat for now)
- Deployed as an Ubuntu Server appliance. License: [LGPL]
What is Tiki Suite?

Kaltura video platform

- Full-featured platform
- Recording from webcam
- Handles transcoding
- Flash editor permits collaborative video editing (awesome!)
- HTML5 player
- Ubuntu Server Appliance
- License: AGPL  SaaS available.
What is Tiki Suite?

ISPConfig

• Web interface to manage a server (mail accounts/anti-spam/DBs/etc.)
• Reselling hosting / multi-server
• Works with many OSs including Ubuntu
• PHP/MySQL [License: BSD]
• Alternative to Webmin (Perl)
Since Kaltura & BigBlueButton are both on Ubuntu Server, it’s an obvious choice.

However, Kaltura and BigBlueButton will run on distinct (v)servers to facilitate upgrades.

ClearOs is also being considered.
What is Tiki Suite?

Clipperz

- HTML & JavaScript password management
- One click-login
- Offline version (one HTML/JS file!)
- All encryption is done client-side
- **zero-knowledge** web application
- Free SaaS or self-hosted
- PHP / JavaScript / MySQL [AGPL]
What is Tiki Suite?

Piwik

• PHP/MySQL Web analytics [GPL]
• Easy to integrate, nice feature set, nice UI.
• There is a mobile client

• Open Web Analytics is an alternative (PHP/MySQL) [GPL]
What is Tiki Suite?

LDAP

- OpenDJ or OpenLDAP or ?

[Logos and links to OpenDJ and OpenLDAP websites]

clearOS
What is Tiki Suite?

Others

• Seo Panel: Keyword Position Checker, Sitemap Generator, Backlinks Checker, Directory Submission Tool, etc (PHP/MySQL) [GPL]

• Zotero to collect, manage, and cite research sources.

• StatusNet micro-blogging
What is Tiki Suite?

Client software

- Any modern Web browser
  - Take advantage of HTML5 anytime possible
  - Used to connect to BigblueButton, Kaltura, Tiki, etc.

- Thunderbird
  - Offline email, etc.
  - Connect to OpenLDAP (which is part of ClearOS) for the address book.

- Cyberduck
  - FTP, SFTP, WebDAV for Mac & Windows
  - WebDAV client for double-click access to files stored in Tiki
  - GPL
What is Tiki Suite?

Client software: Jitsi

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

- Protocols supported include SIP, XMPP/Google Talk/Jabber/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.

License: LGPL
http://jitsi.org
Will also act as System tray notifier (receive alerts, etc.)
What is Tiki Suite?  

Mobile

• Support for mobile browsers (via jQuery Mobile for Tiki features)

• BigBlueButton client for Android
  • http://bigbluebutton-blog.blogspot.com/2011/02/bigbluebutton-on-android-phone.html

• Piwik client for Android and iOS
  • http://piwik.org/mobile/
What is Tiki Suite?

RoadMap

• Tiki7 (June 2011)
  - Pick all major components. Contact communities and get collaboration rolling.

• Tiki8 (October 2011)
  - Compatibility challenges are discovered (workaround, fix, etc.). Ex.: Piwik & Clipperz conflict!

• Tiki9LTS (April 2012)
  - Create a Tiki Suite Appliance (replace our current live Tiki CD)
Questions?

- Tiki Suite development: dev.tiki.org/Suite
- Tiki Suite presentation: suite.tiki.org
- The Tiki model: tiki.org/Model
- Jean-Marc Libs: jeanmarc.tiki@gmail.com jyhem@tiki.org
  Jonny Bradley: jonny@tiki.org
  Community manager: marclaporte@tiki.org
- WikiFest stand (Jean-Marc & Jonny)
Thank you

http://tiki.org
• Bonus slides below…
This will not work on shared hosting and will require VPS (external link) or dedicated server (external link) hosting.

Actually, you will need several dedicated servers. To keep things simpler, the plan is to keep some of the component on distinct servers (ex.: Kaltura and BigBlueButton are easy to deploy to a server, but it gets trickier if you try to put both on the same server).
CMF approach

• Some content management frameworks offer a common platform with thousands of extensions, which you pick & tailor to your needs.

• Better than “best of breed approach”, but still suffers from “Combinatorial explosion” for interoperability. Drupal: 7500 modules Joomla!: 7000 extensions. Almost each install with have a different combination of modules and versions. In Tiki, the code base is identical, and only the preferences configuration differs.

• Distributions are helpful here. However, “Paradox of choice” for extensions (compatibility and abandoned modules, upgrade difficulties, etc) leads to a 2-3 year release cycle for the core, which is too slow.
Major enhancements in 3

- Webservices
- Semantic wiki links and mind mapping
- Tiki Remote Instance Manager (TRIM) (for wikifarms)
- Revamp of install and upgrade scripts
- Profiles for easy configuration
- JQuery added as experimental
- Zend Framework
- Has been picked as Long Term Support (LTS)

- Release date: May 2009 http://doc.tiki.org/Tiki3
Major enhancements in 4

• Google Summer of Code 2009
  • Workspaces & Perspectives
  • Kaltura integration (Collaborative video editing)
  • MediaWiki convertor
• JQuery added as default
• Revamp of edit interface
• PDO as default
• GroupMail
• Memcached
• Multi-domain support

• Release date: November 2009 http://doc.tiki.org/Tiki4
Major enhancements in 5

- Integration with BigBlueButton (Chat/Voice/video/screensharing)
- Shopping Cart & payments, incl. group subscriptions
- WebDAV support
- Spreadsheet upgraded to jQuery and jQueryS5 Slideshow
- Searchable admin panels (!)
- Token Access
- MySQL replication
- Advanced Rating & Metrics Dashboard
- Performance enhancements (front & back-end) including CDN support
- RSS to native articles (planet-type sites)

Release date: June 2010 http://doc.tiki.org/Tiki5
Major enhancements in 6

- Improved Shopping Cart (started in Tiki5)
- Improved UTF-8 support
- Community Currencies with CCLite
- Blog revamp and New CAPTCHAs using Zend_Captcha.
- Contribution: Who wrote What in any wiki page version
- Mass search and replace tool for wiki admins
- Performance admin panel : APC and XCache monitor
- Connect to Source control (ex.: SVN)
- Ustream Watershed integration

Release date: November 2010 http://doc.tiki.org/Tiki6
Major enhancements in 7

- HTML5 (Canvas, etc) (dropped support for IE6)
- Accounting (double-entry bookkeeping system)
- Draw with SVG-edit
- Mobile with jQuery Mobile and MobileESP device detection.
- OpenStreetMap and OpenLayers
- SEO: Canonical URLs
- CodeMirror Syntax Highlighter
- WordPress importer
- Zotero integration
- TimeLine viewer (Simile widgets)
- Zend Framework 1.11 and Unified Search via Zend_Search_Lucene
- Theme generator and header/footer/modules revamp

Release date: June 2011 http://doc.tiki.org/Tiki7
Major enhancements in 8

• Smarty 3
• Trackers revamp
• Distributed Timesheet
• Tiki Suite
• Print revamp
• What do *you* want to see?

• http://dev.tiki.org/Roadmap
• Planned release date: October 2011 http://doc.tiki.org/Tiki8