



Software made the Wiki Way

How the Wiki Way has lead Tiki to become the Free/Open Source Web Application with the most built-in features.

*by Marc Laporte, Tiki Wiki CMS
Groupware project Admin*



What I'll talk about

- Who am I?
- What is Tiki Wiki CMS Groupware?
- How is it built?
 - The Tiki model – Software made the wiki way



MarcLaporte.com

- Wiki & CMS consultant
- 100+ wiki implementations since 2001
- Co-founder of wiki-translation.com
- Project admin for **Tiki Wiki CMS Groupware**
 - Tiki is one of the most popular wiki engines



Tiki Wiki CMS Groupware

- **Tightly Integrated Knowledge Infrastructure**
- **Combination CMS + Wiki + Groupware**
- **Free/Open Source software (LGPL)**
- **950 000+ downloads**
- **Translated into 40+ languages**
- **1000+ pages of documentation**
- **Runs on standard PHP/MySQL making web hosting **easy and inexpensive****
- **“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/>



Main use cases

- Collaboration
- Community / Social Networking
- Publishing / CMS
- Commerce/ Finance
- Productivity / Office suite (Spreadsheet, etc.)
- E-learning
- Support / CRM



Hundreds of built-in features

Action log Alert Articles & Submissions Backlinks Backup 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 JS Calendar Karma Live Support Login Lost edit protection
Mail-in Map with Mapserver Menu Meta Tag Mini-Calendar Mobile Tiki
and Voice Tiki Mods 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
(Anti-bot CATPCHA) Spellcheck 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

**The Free/Open
Source Web
application with the
most built-in
features. Other
popular apps have a
different model:
small core + loads
of functionality in
3rd party add-ons.**

•Over 1000 settings/options in the admin panel!



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

Home - Themes - Examples - Site Features - Find in Entire Site Go

Menu

- Home
- Themes
- Examples
- Site Features

Last 10 forum posts

Tiki Design: Overriding ie6.css
About themes.tw.o: Help with Zuka Theme
About themes.tw.o: Help with Zuka Theme
Tiki Design: Overriding ie6.css
About themes.tw.o: Show/Hide Right/Left Menus
About themes.tw.o: Show/Hide Right/Left Menus
About themes.tw.o: Show/Hide Right/Left Menus
About themes.tw.o: Help with Zuka Theme
Tiki Design: Overriding ie6.css
New Themes: I lost all control when I changed the theme to andreas0 (solved)

Site Config

Site Config: Turning some stuff on & off
Sat 25 of Oct., 2008 05:30 CST
Site Config: Menu demos updated
Sat 25 of Oct., 2008 03:46 CST
Site Config: Site upgraded to

History: Sample page

View page

COMPARING VERSION 8 WITH VERSION 14

Lines: 1-2	Lines: 1-5
	+ :":Choose another theme from the dropdown list."":
	+ : (MODULE(module=>switch_theme));:
--Sample page elements--	--Sample page elements--

Lines: 7-11	Lines: 10-14
!h1 heading	!h1 heading
- Lorem ipsum dolor sit amet, consectetur adipiscing elit. Proin consequat libero. Phasellus porta diam id justo. In eget neque ut metus aliquet bibendum. Curabitur lacinia aliquam sem. Præsent (http://themes.tikiwiki.org/tiki-index.php?page=Sample) (opjejalquam]nocache). Morbi quis tellus. Vestibulum nec neque commodo metus sagittis ullamcorper. Maecenas turpis. Mauris quis leo. Maecenas id felis. Nulla nec nibh. Morbi facilisis. Cras in ipsum a felis ornare dapibus.	+ Lorem ipsum dolor sit amet, consectetur adipiscing elit. Proin consequat libero. Phasellus porta diam id justo. In eget neque ut metus aliquet bibendum. Curabitur lacinia aliquam sem. Præsent aliquam. Morbi quis tellus. Vestibulum nec neque commodo metus sagittis ullamcorper. Maecenas turpis. Mauris quis leo. Maecenas id felis. Nulla nec nibh. Morbi facilisis. Cras in ipsum a felis ornare dapibus.
!h2 heading	!h2 heading

Lines: 79-122	Lines: 82-84
(FANCYTABLE(head=>head one- -head two- -head three))cell one- -cell two- -cell three	(FANCYTABLE(head=>head one- -head two- -head three))cell one- -cell two- -cell three
r2 c1- - r2 c2- - r3 c2(FANCYTABLE)	r2 c1- - r2 c2- - r3 c2(FANCYTABLE)

Click the links below to change the theme:...

- [tki-switch_theme.php?theme=bluegreen.css]Bluegreen
- [tki-switch_theme.php?theme=boreal.css]Boreal
- [tki-switch_theme.php?theme=brtki.css]BRTiki
- [tki-switch_theme.php?theme=codex.css]Codex
- [tki-switch_theme.php?theme=damian.css]Damian
- [tki-switch_theme.php?theme=dblue.css]Dblue
- [tki-switch_theme.php?theme=default.css]Default

Style: feb12.css

feb12.css

To register

To have an account at this site, please register at Tikiwiki.org, and then use that user name and password to log in here.

This site gets user information from Tikiwiki.org with the InterTiki feature.

Login

Login as...

User:

Password:

Remember me

Login

Last changes

1. Template Overview
2. CSS Overview
3. Theme Components
4. Getting Started on a New Theme
5. Themes_for_TW2
6. Snow
7. TikiFest Montreal CSS and Themes discussion



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.

If you want to upload a screenshot, please do so here and copy-paste the wiki syntax into the form below. If you want to upload one files (php, tpl, etc) you will have the opportunity as a second step after this form.

Rating -2 -1 0 1 2

Summary *

Priority

Report type

Version 2.x 3.x

Dogfood on a * tikiwiki.org site

All / Undefined

Action log

Ajax

Article

Backup

Bug: Consistency

Bug: Regression

Community projects

Feature request

Support request

1.9.x

Accessibility (WAI - 508)

Administration

Alert

Backlinks

Banner

Tracker: Staff

[List trackers](#) [Monitor](#) [Admin trackers](#) [Edit this tracker](#) [Edit fields](#)

Members of the Department

[Tracker Staff](#) [Insert new item](#)

23 items found

[a](#) [b](#) [c](#) [d](#) [e](#) [f](#) [g](#) [h](#) [i](#) [j](#) [k](#) [l](#) [m](#) [n](#) [o](#) [p](#) [q](#) [r](#) [s](#) [t](#) [u](#) [v](#) [w](#) [x](#) [y](#) [z](#) [All](#) on Name and surnames

Name and surnames	User	Group	Group IP	Phone	E-mail	Activity	Office
Armando Bronca	admin	GROC		+34934001122	armando.bronca@ub.edu	Academic and Research Staff	65 <input type="button" value="X"/>



Calendar

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

The screenshot shows a web-based calendar interface for February 2009 UTC. The calendar is displayed in a monthly grid view. The days of the week are labeled at the top: Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, and Saturday. The dates are listed in the first column. Events are shown as colored blocks with icons and text labels. For example, on Wednesday, 02/04, there is an event labeled 'TikiFest Brussels'. On Friday, 02/06, there is an event labeled 'TikiFest Brussels'. On Saturday, 02/07, there is an event labeled 'FOSDEM '09, Brussels, Belgium'. On Sunday, 02/08, there is an event labeled 'FOSDEM '09, Brussels, Belgium'. On Monday, 02/09, there is an event labeled 'FOSDEM '09, Brussels, Belgium'. On Tuesday, 02/10, there is an event labeled 'FOSDEM '09, Brussels, Belgium'. On Wednesday, 02/11, there is an event labeled 'FOSDEM '09, Brussels, Belgium'. On Thursday, 02/12, there is an event labeled 'FOSDEM '09, Brussels, Belgium'. On Friday, 02/13, there is an event labeled 'FOSDEM '09, Brussels, Belgium'. On Saturday, 02/14, there is an event labeled 'FOSDEM '09, Brussels, Belgium'. On Sunday, 02/15, there is an event labeled '? TikiFestMadrid'. On Monday, 02/16, there is an event labeled '? TikiFestMadrid'. On Tuesday, 02/17, there is an event labeled '? TikiFestMadrid'. On Wednesday, 02/18, there is an event labeled '? TikiFestMadrid'. On Thursday, 02/19, there is an event labeled '? TikiFestMadrid'. On Friday, 02/20, there is an event labeled 'RecentChangesCamp..'. On Saturday, 02/21, there is an event labeled 'RecentChangesCamp..'. On Sunday, 02/22, there is an event labeled 'RecentChangesCamp..'. On Monday, 02/23, there is an event labeled 'RecentChangesCamp..'. On Tuesday, 02/24, there is an event labeled 'RecentChangesCamp..'. On Wednesday, 02/25, there is an event labeled 'RecentChangesCamp..'. On Thursday, 02/26, there is an event labeled 'RecentChangesCamp..'. On Friday, 02/27, there is an event labeled 'TikiFest Montréal..'. On Saturday, 02/28, there is an event labeled 'TikiFest Montréal..'. A search bar is visible on the right side of the interface, with the text 'SEARCH WIKI PAGENAME' and 'Exact' next to it. There is also a 'KEYWORDS' field. A login form is visible on the right side of the interface, with fields for 'Password:' and 'Remember me', and a 'Login' button. A tooltip is visible over the search bar, showing the text '09:00 UTC ...' and 'FOSDEM '09, Brussels, Belgium'.



Discussion forums

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

The screenshot shows a forum thread on the Tiki website. The thread title is "FF3 and Kubrick phplayer menu problem". The first post is by user "Rbryn" on Thu 25 of Sept., 2008 11:53 CST, with 8 posts. The post content asks if anyone else is experiencing problems with phplayer menus in Kubrick, mentioning that IE7 works but Firefox 3.0.2 and Iiawd does not. A second post by "chibaguy" on Thu 25 of Sept., 2008 19:10 CST, with 203 posts, provides a link to a website and suggests that the issue might be related to the installation or configuration of the themes. A third post by "Gary" on Sun 28 of Sept., 2008 10:44 CST, with 8 posts, responds to the previous posts, mentioning that he has changed the CSS and tried various settings. The forum interface includes a navigation bar at the top with "Forum: New Themes", a search bar, and a sidebar on the right with a "To register" link, a login form, and a "Last changes" section listing various forum topics.



Blog & news articles

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

Completing Theme-o-rama module

Posted by [marclaporte](#) on Mon 20 of Aug., 2007 12:54 CST

greenmetal.css & jello.css were missing from Theme-o-rama module
and Gary added BRTiki.css lately

I just removed vidiki.css because it's being pulled out of Tiki. (broken & unmaintained)

[Permalink](#)



Php Layers Menu now in heavy testing!

Posted by [marclaporte](#) on Mon 20 of Aug., 2007 12:37 CST

Hi!

I spent several hours making sure we could access/test all menu types with all the themes on this site.

We have 4 menu types:

- [Basic menu](#)
- [Tree menu](#)
- [Dynamic vertical menu](#)
- [Dynamic horizontal menu](#)

On this site, we have

7 new themes



File & image galleries

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

ID	T	Filename	Name	Description	Size	Created / Uploaded	Creator	Hits
7		Contacts.xml	CRM DB SCHEMA	DB Schema in XML format for DB Designer 4	94.29 KB	Mon 21 July 2003	soshea★	1902
8		contacts.pdf	crm.pdf	crm design document in pdf	467.20 KB	Mon 21 July 2003	soshea★	2146
9		rrdtool-colors.pdf	RRDtool colors	RRDtool hex color codes (grabbed from cacti)	50.80 KB	Wed 23 July 2003	ddial★	904
		.oc.tgz	PackIt	Packer Source	111.59 KB	Fri 01 Aug. 2003	llagerlof★	312
		tes	tes	tes aja nih	8.21 KB	Thu 07 Aug. 2003	uwirsd★	348
19		200601.xml	Cathedrals, Bazaars and the Town Council	A interesting text concerning free software evolution.	20.57 KB	Wed 13 Aug. 2003	mose★	501
20		bazaar-fr-1998.ps.gz	Cathedrals, Bazaars and the Town Council	A interesting text concerning free software evolution.	31.84 KB	Wed 13 Aug. 2003	mose★	354
24		bazaar-v0-1998.pdf	Cathedrals, Bazaars and the Town Council	A interesting text concerning free software evolution.	77.14 KB	Sun 17 Aug. 2003	mose★	1064
42		SimpleCSSEdit.swf	SimpleCSSerror	An obsolete flash file showing rendering issues of Simple style. These issues has been already fixed in Tiki.	424.34 KB	Thu 11 Dec. 2003	DennisDaniels★	742
45		LinkingErrorsintiki.swf	movie of errors in cvs	flash	593.01 KB	Fri 09 Jan. 2004	DennisDaniels★	555



Multilingual

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

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

Les thèmes qui pourront être abordés dans l'atelier comprennent, sans s'y limiter:

- 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



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)**

<input type="checkbox"/>	tiki_p_forums_report	forums	Can report msgs to moderator		
<input checked="" type="checkbox"/>	tiki_p_forum_post	forums	Can post in forums	inherited	inherited from Registered
<input checked="" type="checkbox"/>	tiki_p_forum_read	forums	Can read forums		inherited from Anonymous
<input type="checkbox"/>	tiki_p_forum_vote	forums	Can vote comments in forums		
<input checked="" type="checkbox"/>	tiki_p_forum_post_topic	forums	Can start threads in forums	inherited	inherited from Registered
<input type="checkbox"/>	tiki_p_forum_edit_own_posts	forums	Can edit own forum posts		
<input checked="" type="checkbox"/>	tiki_p_view_freetags	freetags	Can browse freetags		inherited from Anonymous
<input checked="" type="checkbox"/>	tiki_p_freetags_tag	freetags	Can tag objects		inherited from Anonymous
<input type="checkbox"/>	tiki_p_admin_freetags	freetags	Can admin freetags		
<input type="checkbox"/>	tiki_p_unassign_freetags	freetags	Can unassign tags from an object		
<input type="checkbox"/>	tiki_p_admin_games	games	Can admin games		
<input type="checkbox"/>	tiki_p_play_games	games	Can play games		
<input type="checkbox"/>	tiki_p_hw_teacher	homework	Can create new homework assignments, see student names and grade assignments		
<input type="checkbox"/>	tiki_p_hw_student	homework	Can do homework assignments		
<input type="checkbox"/>	tiki_p_hw_grader	homework	Can grade homework assignments		
<input type="checkbox"/>	tiki_p_hw_admin	homework	Can admin homework		
<input type="checkbox"/>	tiki_p_edit_html_pages	html pages	Can edit HTML pages		
<input type="checkbox"/>	tiki_p_view_html_pages	html pages	Can view HTML pages		
<input type="checkbox"/>	tiki_p_admin_galleries	image galleries	Can admin Image Galleries		



The Tiki model

- Open Wiki community (do-ocracy)
- Wiki Way participation to the code
- Scheduled releases
- All-in-one codebase
- No feature duplication
- Dogfood

tiki.org/Model



Open Wiki community

- Do-ocracy (vs other *cracies)
- Sort of like Wikipedia but for software instead of content
- Pure play FOSS project : open source and open development.



What is a wiki?

- It's just a web site, but easy to edit for everyone
 - Simply click edit and save
- Invented in 1995 by Ward Cunningham
 - 1st generation: text only
 - 2nd generation: permissions, workspaces, structured data, rich media, etc.
- Means “Quick” in Hawaiian
- Usage is growing fast (incl. in the enterprise)
- Wikis in Plain English <http://www.youtube.com/watch?v=-dnL00TdmLY>



Wiki Way

Traditional

Propose and seek approval

Change is “expensive”

Risk averse

“Need to know” basis

Wiki Way

Do, and revert if problem

Change is cheap

Get it done

All info is open by default



Wiki Way participation to the code

- Everyone who asks for commit access gets it
 - No significant issues in 9 years
- 490+ with full write access to the complete code base
 - 250 have contributed code
- A new code commit **every two hours**

“Commit early, commit often”



Scheduled releases

- 2 major releases per year (October and April)
- With Long Term Support version
 - Every 3rd version
 - Great for the enterprise
- Benefits of predictability
 - commercial eco-system
 - Encourages collaboration (work in trunk)

In such a diverse community, it's more realistic to agree on a date than a feature-list.



All-in-one codebase

- No core vs module debate
- All developers are core developers
- All features and languages in the same download
- Each feature is optional
- Inherent synchronized releases (all features have to be ready at the same time)
- Reduces risk of module lock-in



No feature duplication

- In a wiki, similar/related content is merged, so the same is applied to features
- Solves the plugin chaos & dependency hell problem found in many applications.

Tiki is the Free/Open Source Web Application with the most built-in features.



Dogfood

- Dogfooding: "an expression that comes from the idea that companies should eat their own dog food, or use their own products."

Tiki is a community recursively developing a community management system



Coping with complexity

- Doesn't this add more complexity?
- Tiki 7.1 contains 11348 files (1M LoC)
- Half the code is NIH (Smarty, Zend Framework, jQuery, etc.), so we maintain about 6000 files (incl. image files)
- Sounds like a lot?



Putting things in perspective

- The Tiki community maintains about 6000 files
 - Joomla! has 8097 "extensions"
 - Drupal has 11406 "modules"
 - WordPress has 16066 "plugins"
- Thus, 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
- Just about any project you could do with Joomla!, WordPress or Drupal, you could also do it with Tiki with less overall complexity -> <https://tiki.org/Coping+with+Complexity>



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**

- Admin panels: with a total of over 1000 settings/options! (we had to add a search and basic/advanced/experimental filters!)
- Learning curve for users and devs: 1000+ pages of documentation
- What should be sensible defaults?
- Trade-off of innovation and upgradeability



Tiki Suite

- Going beyond PHP/MySQL
- Integrated Web and desktop suite
- Phone system, XMPP chat, etc

<http://suite.tiki.org/>



Questions?

- Tiki.org
- Wiki-translation.com
- marc@marclaporte.com

- About the Tiki model:
 - Tiki.org/Model
- But mostly:
 - Tiki.org/Download





Thank you!