



Tiki

Wiki+CMS+Groupware

A tightly-integrated, full-featured, open source, multilingual Web Content Management System

The Wiki Way to make software

*by Marc Laporte, Project Admin
Confoo2010, Canada*



What I'll talk about

- Mass collaboration and the Wiki Way
- Tiki Wiki+CMS+Groupware
- The Tiki Model

2 audiences

- When/why you should pick Tiki for your next project
- How you should look into the Wiki Way and the Tiki model to make your own project more collaborative



Mass collaboration

- What are the most important **volunteer mass collaboration projects** in the history of humankind?



WIKIPEDIA

English

The Free Encyclopedia

2 340 000+ articles

Deutsch

Die freie Enzyklopädie

738 000+ Artikel

Français

L'encyclopédie libre

648 000+ articles

Polski

Wolna encyklopedia

492 000+ haseł

日本語

フリー百科事典

485 000+ 記事



Italiano

L'enciclopedia libera

442 000+ voci

Nederlands

De vrije encyclopedie

431 000+ artikelen

Português

A enciclopédia livre

372 000+ artigos

Español

La enciclopedia libre

353 000+ artículos

Svenska

Den fria encyklopedin

281 000+ artiklar



Wikis: what for?

- Wikipedia
- Documentation
- Collaboration > flexible, simple freeform project management
- Corporate Intranet or extranet
- Great for unstructured content, can be structured with categories and tags
- Effective document workflow



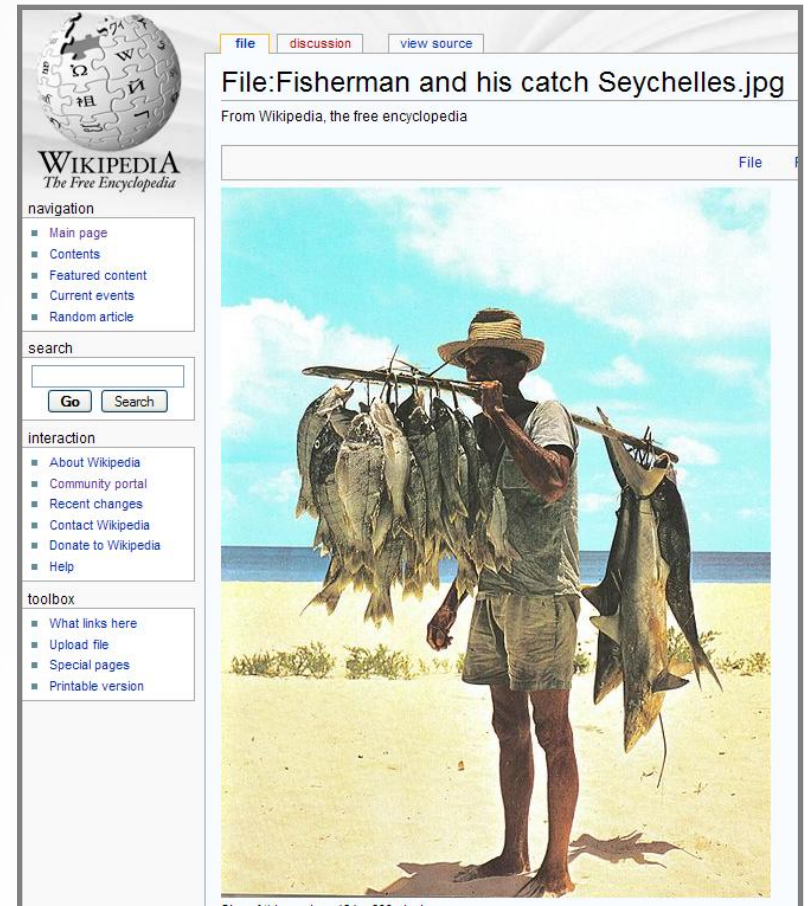
Why a wiki?

Give someone a fish and you feed them for a day.

Teach someone to fish and you feed them for a lifetime.

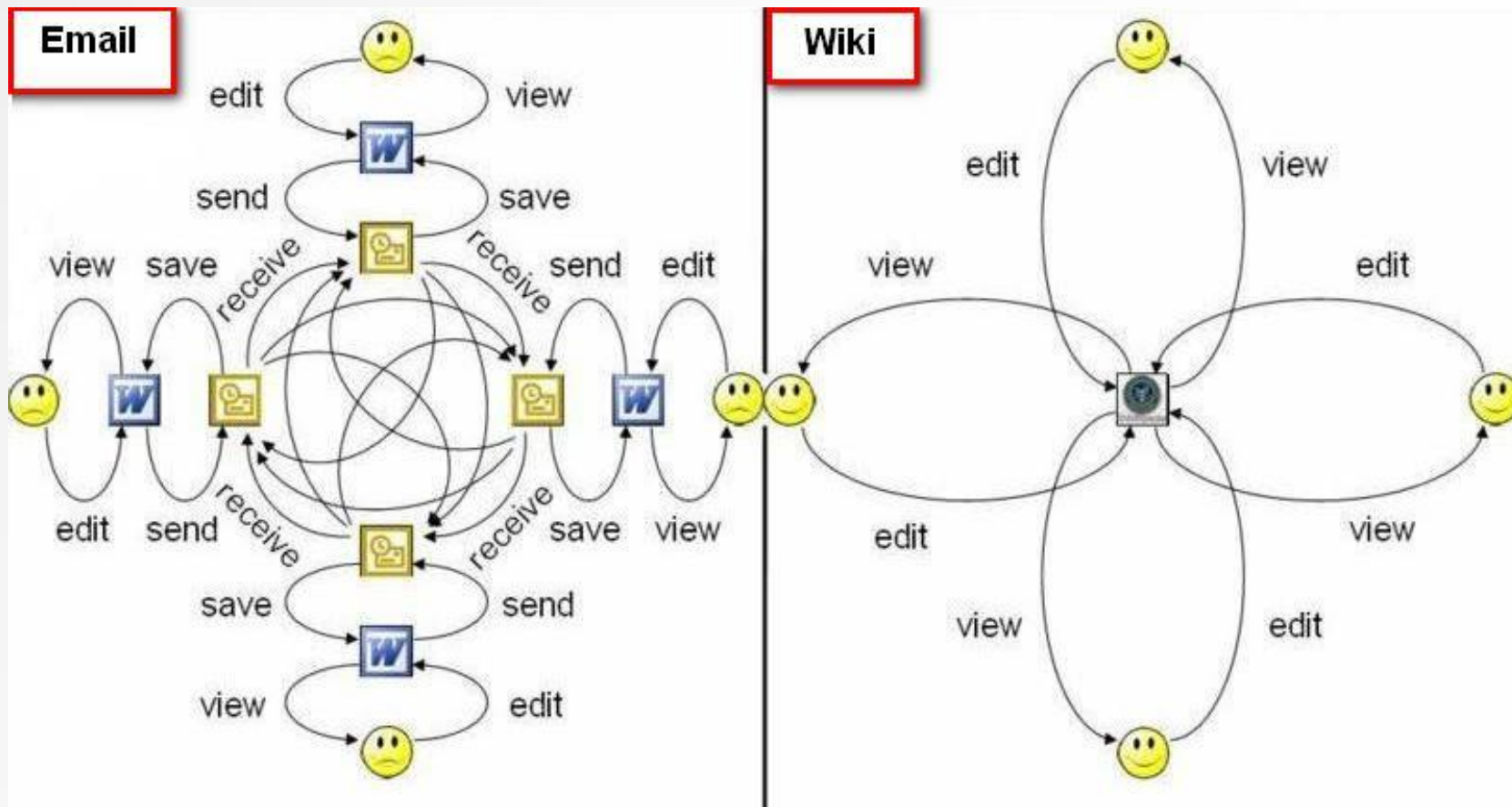
*Add that knowledge to a wiki
And countless people will be able to learn on their own*

*And share their knowledge
And many will feed their families*





Because email doesn't scale





Wiki Way

Core Values

- Its About Us
- Assume Good Faith
- Real People
- Be a Builder

Other Values

- Radical Trust
- Include Everyone
- Transparency
- Change is Cheap
- Refactoring
- Suggested Edits
- Work Where You Want
- Do-ocracy
- Self Organize
- Barn Raising

Source: <http://www.aboutus.org/IncludeEveryone>



What happens when...

- ...you apply the **Wiki Way** to software development for over 7 years with over **225** core contributors?
- ...**dogfooding** is a core value?
- ...everyone collaborates on an **integrated** code base?



Tiki

Wiki+CMS+Groupware

- **Tightly Integrated Knowledge Infrastructure**
- Combination CMS + Wiki + Groupware
- Free source software (LGPL)
- 800 000+ downloads so far
- Translated into 35+ 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)
- A new code commit **every two hours**
- “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/>
- **But mostly...**



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 Mootools 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 (Galaxia Workflow engine)
WYSIWYCA WYSIWYG XMLRPC

**As far as we know,
the 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!

<http://doc.tikiwiki.org/Features>



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)**

<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 adminsite 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	



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

The screenshot shows a Tiki Wiki page titled "History: Sample page". The page is comparing version 8 with version 14. The diff is presented in a table with two columns: "Lines: 1-2" and "Lines: 1-5" for the first section, "Lines: 7-11" and "Lines: 10-14" for the second, and "Lines: 79-122" and "Lines: 82-84" for the third. The first section shows a dropdown menu being added. The second section shows a paragraph of Lorem Ipsum text with some words highlighted in red (e.g., "Praesent", "Mauris", "Maecenas"). The third section shows a table structure. On the left side of the page, there is a "Menu" section with links to Home, Themes, Examples, and Site Features, and a "Last 10 forum posts" section. On the right side, there is a "Style: feb12.css" section, a "To register" section, a "Login" section, and a "Last changes" section.



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	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 row: 02/01, 02/02, 02/03, 02/04, 02/05, 02/06, 02/07. The events are listed in the following rows:

- 02/04: TikiFest Brussels
- 02/05: TikiFest Brussels
- 02/06: TikiFest Brussels
- 02/07: FOSDEM '09, Brussels, Belgium
- 02/08: FOSDEM '09, Brussels, Belgium
- 02/15: TikiFestMadrid
- 02/16: TikiFestMadrid
- 02/17: TikiFestMadrid
- 02/18: TikiFestMadrid
- 02/20: RecentChangesCamp, Southern
- 02/21: RecentChangesCamp, Southern
- 02/22: RecentChangesCamp, Southern
- 02/27: TikiFest Montréal
- 02/28: TikiFest Montréal

On the right side of the interface, there is a search bar with the text "SEARCH WIKI PAGENAME" and a search button. Below the search bar, there is a text input field and a button labeled "Exact". At the bottom right, there is a section labeled "KEYWORDS".



Blog & news articles

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

Completing Theme-o-rama module

Posted by [mardaporte](#) 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 [mardaporte](#) 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



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 main post is by user "Rbryn" on Thu 25 of Sept., 2008 11:53 CST. It asks if anyone else is experiencing problems with phplayer menus in Kubrick. A reply by "chibaguy" on Thu 25 of Sept., 2008 19:10 CST provides a link to a website and suggests that the problem might be related to the version of Tiki being used. A second reply by "Gary" on Sun 28 of Sept., 2008 10:44 CST thanks the previous user for the information. A third reply by "chibaguy" on Sun 28 of Sept., 2008 19:23 CST provides more details about the problem and the steps taken to resolve it. The forum interface includes a search bar, a list of recent changes, and a shoutbox.



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
		Actions						
		Download						
		.oc.tgz	PackIt	Packer Source	111.59 KB	Fri 01 Aug. 2003	llagerlof★	312
		tes.zip	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



Transversal

- **Categories (top-down)**
- **Tags (Bottom-up)**
- **Watch by email (items & categories)**
- **RSS (in & out + aggregation)**
- **Comments**
- **Search**
- **Etc.**



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



Profiles.TikiWiki.org

- **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!



Use Cases

- Online community / association / club / special interest group / NGO (A)
 - International, multilingual project (A)
 - Advanced portal / news site (A)
 - Corporate web site (A)
 - Groupware Wiki / Corporate Wiki / Corporate Intranet / Team project (A)
 - Public Wiki (A)
 - Group knowledge base / Knowledge Management (KM) / institutional memory (A)
 - Product or software documentation and support (A)
 - Customer extranet (A)
 - Multilingual wiki (A)
- ***A is better, Ratings factoring in the necessary effort to configure.***



Use Cases (part 2)

- Personal site / family site (B)
- Simple portal / news site (B)
- Writing a book (B)
- Personal knowledge base / manage my life (B)
- Wiki-based Project Management (PM) (B)
- Glossary / Dictionary / Encyclopedia (B)
- Framework / Activity Workflow / Specialized web Application (B)
- Document Workflow (B)
- Bug or Issue tracker (B)
- Collaborative research (B)
- Voice-enabled wiki and mobile applications (B)
- Geo CMS (B)
- Blog (several authors) (B)
- ***A is better, Ratings factoring in the necessary effort to configure.***



Use Cases (part 3)

- Event Management, Conference Management & planning (C)
- Blog (one author) (C)
- Document Management System (DMS) (C)
- SourceForge / Gforge type site (C)
- E-commerce / Shopping cart (C)
- E-democracy (C)
- E-learning / Learning Management System (LMS) / classroom / course management system (CMS) (D)
- Customer / Contact / Constituent relationship management (CRM) (D)
- Bibliography (D)
- Traditional Project Management (PM) with Gantt charts, etc (D)
- Social networking / Job board / Dating site / hospitality exchange / Car Pooling (D)
- Enterprise resource planning (ERP) / Accounting (D)
- ***E is worst, Ratings factoring in the necessary effort to configure.***



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.tikiwiki.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.tikiwiki.org/Tiki4>



Major enhancements in 5

- Shopping Cart & payments
- WebDAV support
- Spreadsheet upgraded to jQuery
- jQueryS5 Slideshow
- Searchable admin panels (!)
- Token Access
- MySQL replication
- Advanced Rating & Metrics Dashboard
- Performance enhancements (front & back-end)

- Release date: April 2010 <http://doc.tikiwiki.org/Tiki5>



Major enhancements in 6

- HTML5 (Canvas, etc)
- Integration with BigBlueButton (Chat/Voice/video/screensharing)
- Improved CRM and Shopping Cart (started in Tiki5)
- Smarty 3?

- What do *you* want to see?

- <http://dev.tikiwiki.org/Roadmap>
- Release date: October 2010 <http://doc.tikiwiki.org/Tiki6>



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)
-
- tikiwiki.org/Model



All-in-one design

- “In later discussions Torvalds explained the reasons for its choice: **a fully modular architecture, like the one adopted for HURD, would have posed problems to a degree of complexity that it could have compromised the accomplishment of the project.** To avoid such risks and keep the degree of complexity of the project as low as possible, Torvalds decided to design a monolith and he actually wrote all the architectural specs himself, avoiding all the problems related to collective projects (e.g. division of labor, coordination, communication). On the other hand, the HURD micro–kernel, a project in direct competition with the Linux kernel, has paid for the choice of pursuing a fully modular approach from the beginning in terms of the continuous delays that have plagued its development. Nowadays, it is still under active development and still lacks the stability and performance assured by the Linux kernel.”

Source: **Modular Design and the Development of Complex Artifacts: Lessons from Free/Open Source Software** <http://oss2005.case.unibz.it/Papers/25.pdf>

<http://dev.tikiwiki.org/Modularity>



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?



3 things...

- ...I want you to remember about this talk in 6 months
 - The Wiki Way is not just for Wikipedia
 - Tiki is an all-in-one solution
 - The Tiki community eats its own DogFood, and welcomes you.



Questions?

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

- Doubts about the Tiki model?
 - TikiWiki.org/Model
- But mostly:
 - TikiWiki.org/Download





Thank you