The evolution of the Tclers Wiki

Jos Decoster - jos.decoster@gmail.com

Steve Landers - steve@digitalsmarties.com

Origins

- 1999 second oldest Wiki still going
- wikit written by Jean-Claude Wippler
- minimal markup
- Web + Tk renderer
- self-contained
- Metakit database

Transitions

- used for embedded documentation
- Metakit to TDBC + SQLite
- embedded web server to Wub
- searching from internal to Google to internal
- added markup
- styling

Issues • page numbers • searching • curation • spam • look and feel • code maintenance

Opportunities

- modern look
- developer support
- 3rd party solutions for web, cache, security, search
- spam mitigation
- curation support
- improved markup

Nikit

- modern look based on Bootstrap
- NGINX load balancing, proxying web server
- Wikit running as an SCGI
- SQLite for database
- CloudFlare for cache, security, acceleration
- Google search



Database

- SQLite3
- schema based on 2007 rewrite by Kevin and Colin
- primary key is now page name (not integer)
- writes serialized via single writer process
- multiple readers



Database conversion

- page name as primary key
- removed empty pages
- old page-ids retained to support existing links
- new pages not created until first edit

Page stats	
-	
total number of pages	44385
text pages with date	13396
binary pages with date	1634
pages without date	27442
text pages without content	1891
missing	22
skipped	28



NGINX

- scalable and performant
- easy to configure
- large and growing user base
- lots of info/help available

Styling

- bootstrap based
- responsive layout
- adaptive menu on top

CloudFlare

- performance
 - distributed cache + CDN
 - content optimization
 - DNS
- security
 - DDoS protection
 - web application firewall
 - SSL + IPV6
- analytics





Changes Page

- last edit per page
- minor edits hidden by default
- minor edit / spam flags
- geo-located region

Minor Edits

- "Save as minor edit" button
- not listed in default Changes page
- listed in page history

Access Rules

- based on roles
- per page
- per area (e.g. admin pages, CSS templates)

Roles

- read
- write (username supplied)
- trusted (authenticated via username / password)
- gnome (edit not shown in default Changes)
- admin

Introspection

- user activity
- page history
- spam

Maintenance

- rename pages
- delete pages (no trace left)

Robot / Spam Detection

- reCAPTCHA
- bayesian filter
- spam hidden by default
- posting prevented from "spammy" IP addresses
- trusted users can mark as spam or ham

Tcler's Wiki+ Jdc+ Confirm edit for Learn to Last edit 2016-06-17 13:46:03 by pooryork@108:0 Im not a robot I'm not a robot Confirm Cancel	
Tcler's Wiki≁	
Learn to Program	
This page is considered SPAM !	

Markup

- full rewrite
- compatible with Wikit markup
- optional
 - HTML
 - Markdown
 - TCL (in safe interp with CPU limit)



Document Types

WIKIT	page content written in wikit markup
MARKDOWN	page content written in markdown
HTMLPART	page content written in HTML
TCL	page generated by Tcl script
HTML	page written in HTML

Special Pages

ADMIN:WELCOME	Welcome page, in wikit markup
ADMIN:MOTD	Message of the day, in HTML
ADMIN:ACCESSRULES	Access rules
ADMIN:PRIVACY	Privacy statement

Page Templates

TEMPLATE:page	Default page template
TEMPLATE:preview	Page preview template
TEMPLATE:gsearch	Google custom search template
TEMPLATE:content	HTML page template
TEMPLATE:CSS	Nikit specific CSS
TEMPLATE:JS	Nikit specific JS

Directives

< <include:page>></include:page>	include another page
< <redirect ?reason?="">> page</redirect>	redirect to another page
< <motd>></motd>	display message of the day
< <changes>></changes>	include 10 most recent changes
< <categories>></categories>	page categories
< <discussion>></discussion>	show/hide part of page
< <inlinehtml>></inlinehtml>	insert HTML within Wiki markup
< <backrefs?:name?>></backrefs?:name?>	include page references for this or specified page





Tables				
one row per line	% 1 2 3 % 4 5 6			
- header % %	7 8 9	2		
-row or & &		3 +		
one field per line		4 5		
- start header row 18		6 +		
- start row + or &		7		
- start field		8 9		



Cookie Consent

Got it!

- complies with EU cookie regulations
- shows contents of ADMIN:PRIVACY

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