

# The evolution of the Tclers Wiki

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## 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

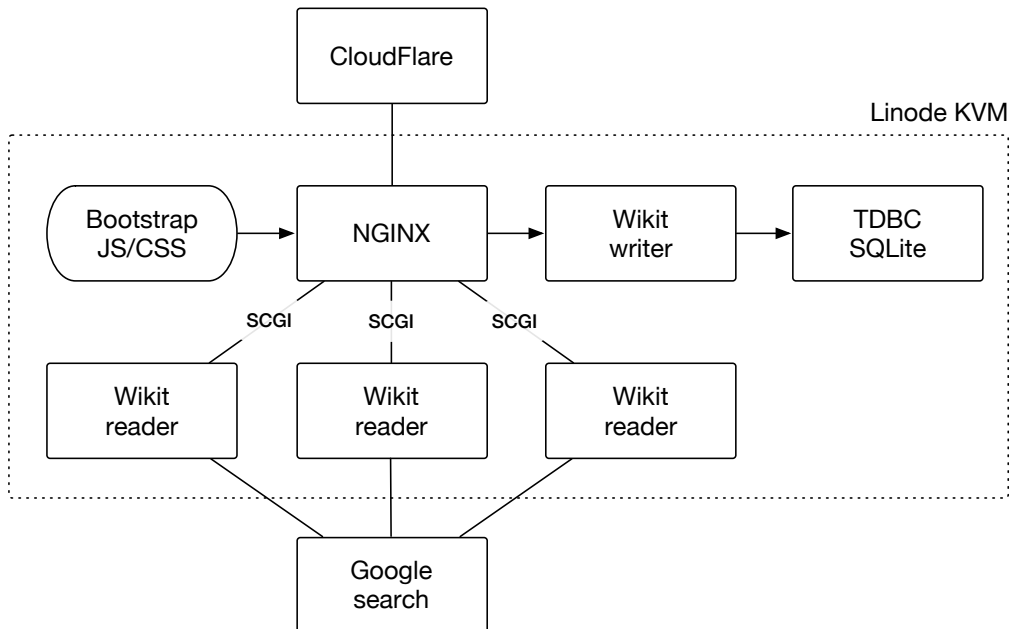
# Opportunities

- 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

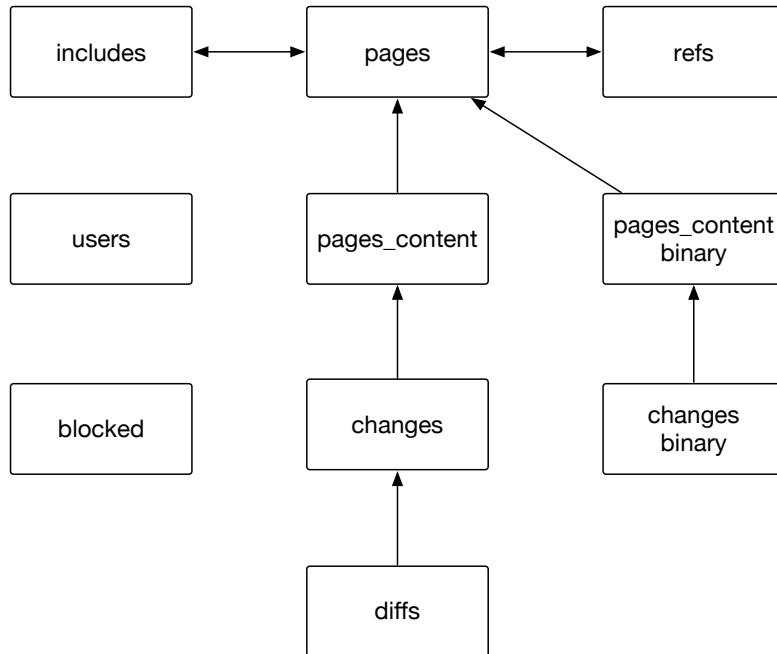
# Nikit Architecture



# 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

# Schema



## 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

## SCGI

- single thread programming
- multiprocessing
- pool of pre-started scripts
- load balancing by nginx
- based on Tcllib's cgi and <http://wiki.tcl.tk/19760>

# NGINX

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

# CloudFlare

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

# Styling

- bootstrap based
- responsive layout
- adaptive menu on top

## yield

**yield**, a [Tcl Commands%[%built-in] Tcl [command](#), exits the current coroutine without destroying it, returning a value in the process.

### Synopsis

**yield** *?value?*

### See Also

[yieldto](#)

instead of yielding a value directly, execute a command in place of the current coroutine context, which then returns a value.

[tcl::unsupported::yieldm](#)

an experiment in passing multiple values to a coroutine. `yieldm` turned out to be trivial to implement in terms of [yieldto](#).

### Description

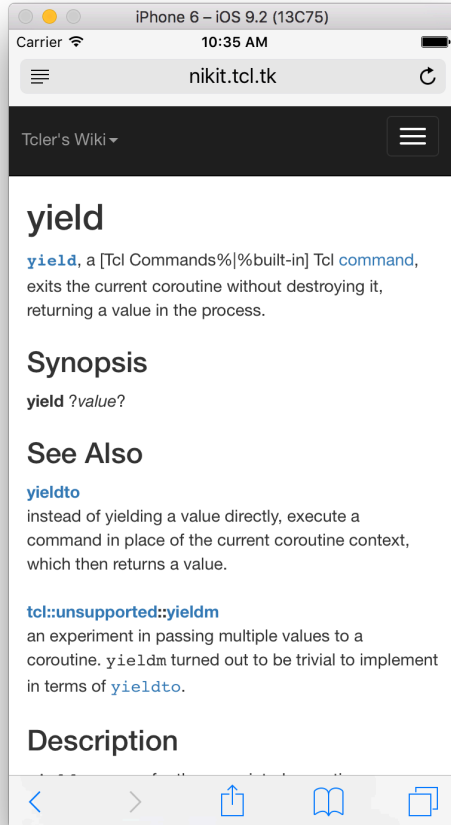
**yield** arranges for the associated coroutine command of the current coroutine to return *value* if it is provided, or the [empty string](#) otherwise. The current coroutine context continues to exist. The next time the associated coroutine context command is executed, any argument passed to it becomes the return value of the `yield` that previously exited the coroutine context. If the associated coroutine context command is not given an argument, the return value of `yield` is the [empty string](#).

DKF: Can also be thought of as a magical form of [return](#). That itself returns (possibly).

### Example: Basic

```
proc onetwo {} {
  yield [info coroutine]
  yield 1
  return 2
}
```





Tcler's Wiki ▾ Page ▾ stevel ▾

- Home
- Changes
- New page
- Report Problems
- Privacy
- License

yield ?value?

Tcler's Wiki ▾ Page ▾ stevel ▾ Search...

**yield**

yield, a [Tcl Commands][built-in] Tcl command, exits the current coroutine without destroying it, returning a value in the process.

**Synopsis**

yield ?value?

**See Also**

- yieldto
- tcl::unsupported::yieldm

instead of yielding a value directly, execute a command in place of the current coroutine context, which then returns a value.

an experiment in passing multiple values to a coroutine. yieldm turned out to be trivial to implement in terms of yieldto.

- Comment
- Edit
- Upload
- References
- History
- Synopsis
- See Also
- Description
- Example: Basic
- Coloop
- Example: `yield` From Any Command in a Coroutine Context

# 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

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## Confirm edit for [Learn to Program](#)

Last edit 2016-06-17 13:46:03 by [pooryorick@108.162.219.144](#)

<input type="checkbox"/>	I'm not a robot	
		reCAPTCHA <a href="#">Privacy</a> - <a href="#">Terms</a>
<input type="button" value="Confirm"/>	<input type="button" value="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)

# Markup

- document types
- special pages
- page templates
- directives
- tables
- special characters

# Document Types

<code>&lt;!DOCTYPE WIKIT&gt;</code>	page content written in wikit markup
<code>&lt;!DOCTYPE MARKDOWN&gt;</code>	page content written in markdown
<code>&lt;!DOCTYPE HTMLPART&gt;</code>	page content written in HTML
<code>&lt;!DOCTYPE TCL&gt;</code>	page generated by Tcl script
<code>&lt;!DOCTYPE HTML&gt;</code>	page written in HTML

# Special Pages

<code>ADMIN:WELCOME</code>	Welcome page, in wikit markup
<code>ADMIN:MOTD</code>	Message of the day, in HTML
<code>ADMIN:ACCESSRULES</code>	Access rules
<code>ADMIN:PRIVACY</code>	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 another page
<<redirect ?reason?>> page	redirect to another page
<<motd>>	display message of the day
<<changes>>	include 10 most recent changes
<<categories>>	page categories
<<discussion>>	show/hide part of page
<<inlinehtml>>	insert HTML within Wiki markup
<<backrefs?:name?>>	include page references for this or specified page



## <<include:name>>

- Include contents of another page in current page

This is Tcl included from [tcl child]

```
<<include:tcl child>>
```

This is HTML include from [html child]

```
<<include: html child>>
```

```
<!DOCTYPE TCL>
```

```
puts "<ul>"
```

```
foreach t {today tomorrow yesterday} {
```

```
    puts "<li>$t : [clock format [clock scan $t]]</li>"
```

```
}
```

```
puts "</ul>"
```

```
<!DOCTYPE HTMLPART>
```

```
<div class='alert alert-danger'>This page is considered <strong>HTML!</strong></div>
```

## <<redirect ?reason?>> name

- Redirect current page to another page

- Known reasons:

- redundant
- duplicate
- merged
- inaccurate

- Redirect headers



jdc

This page has become redundant. It now redirects to: **Jos Decoster**



Jos Decoster

You were redirected to this page because the **redirecting page** is redundant.

# Tables

- one row per line
  - header `% |...|...| %`
  - row `|...|...| or & |...|...|&`
- one field per line
  - start header row `| %`
  - start row `+ or |&`
  - start field `|`

```
% | 1 | 2 | 3 | %      + %
| 4 | 5 | 6 |          | 1
| 7 | 8 | 9 |          | 2
| 3                      | 3
+                          | 4
| 4                      | 5
| 6                      | 6
+                          | 7
| 7                      | 8
| 8                      | 9
| 9
```

# Special Characters

`<<br>>`

`<<nbsp;>>`

`<<pipe>>`

# Cookie Consent

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

This website uses cookies to ensure you get the best experience on our website. [More info](#)

Got it!