

# The evolution of the Tclers Wiki

Jos Decoster - [jos.decoaster@gmail.com](mailto:jos.decoaster@gmail.com)

Steve Landers - [steve@digitalsmarties.com](mailto: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

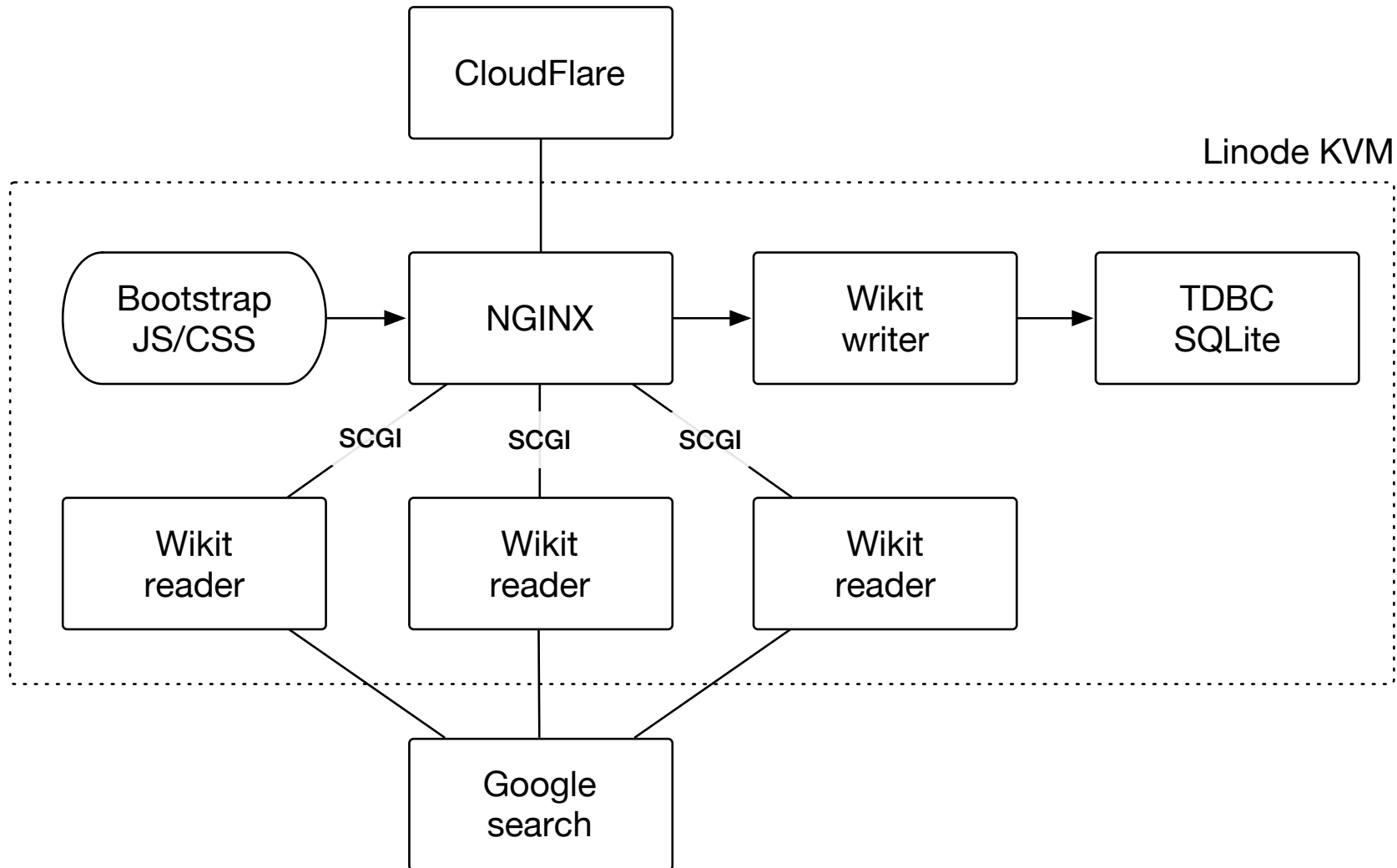
# Opportunities

- 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

# Nikit Architecture

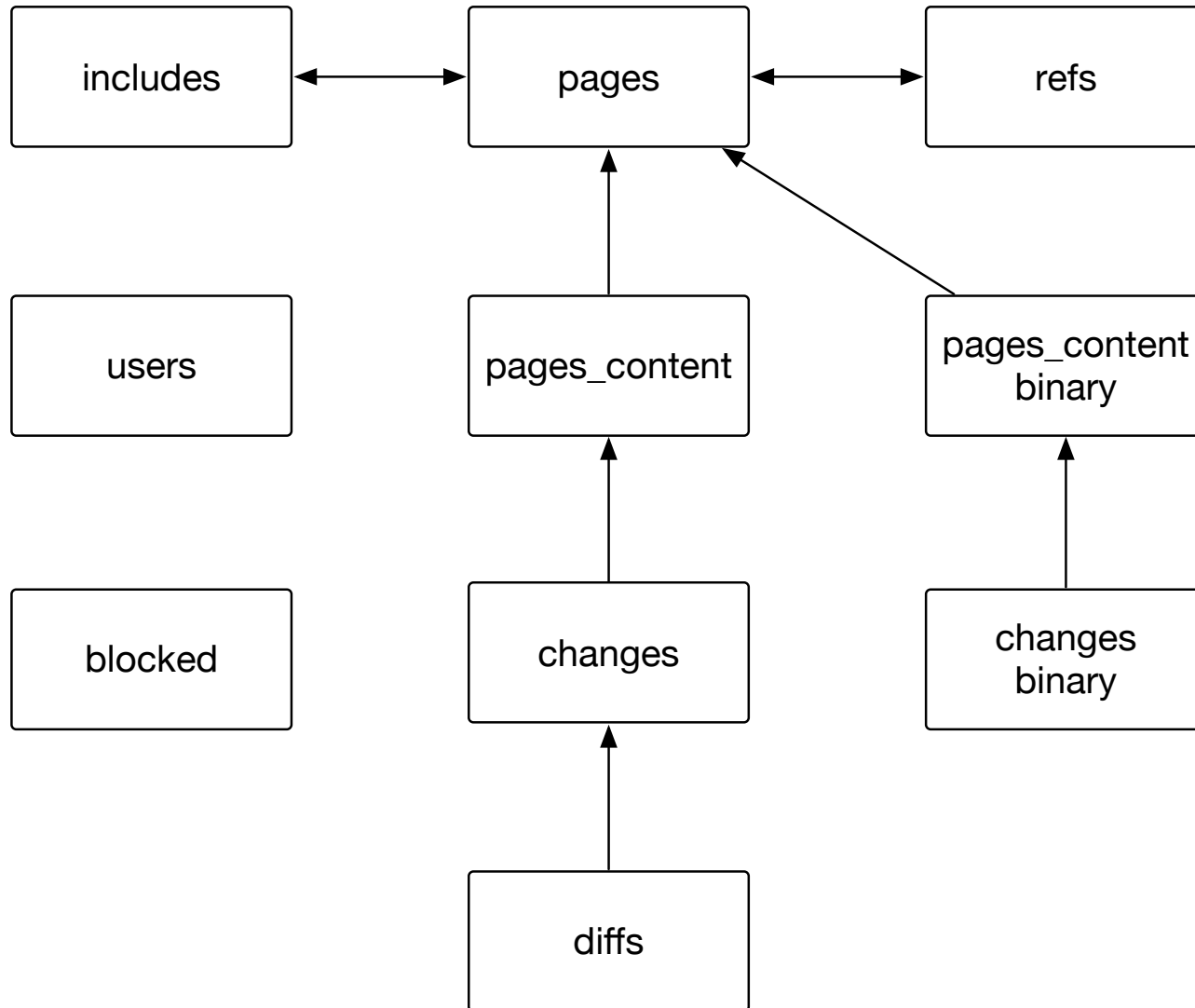


# Database

- 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

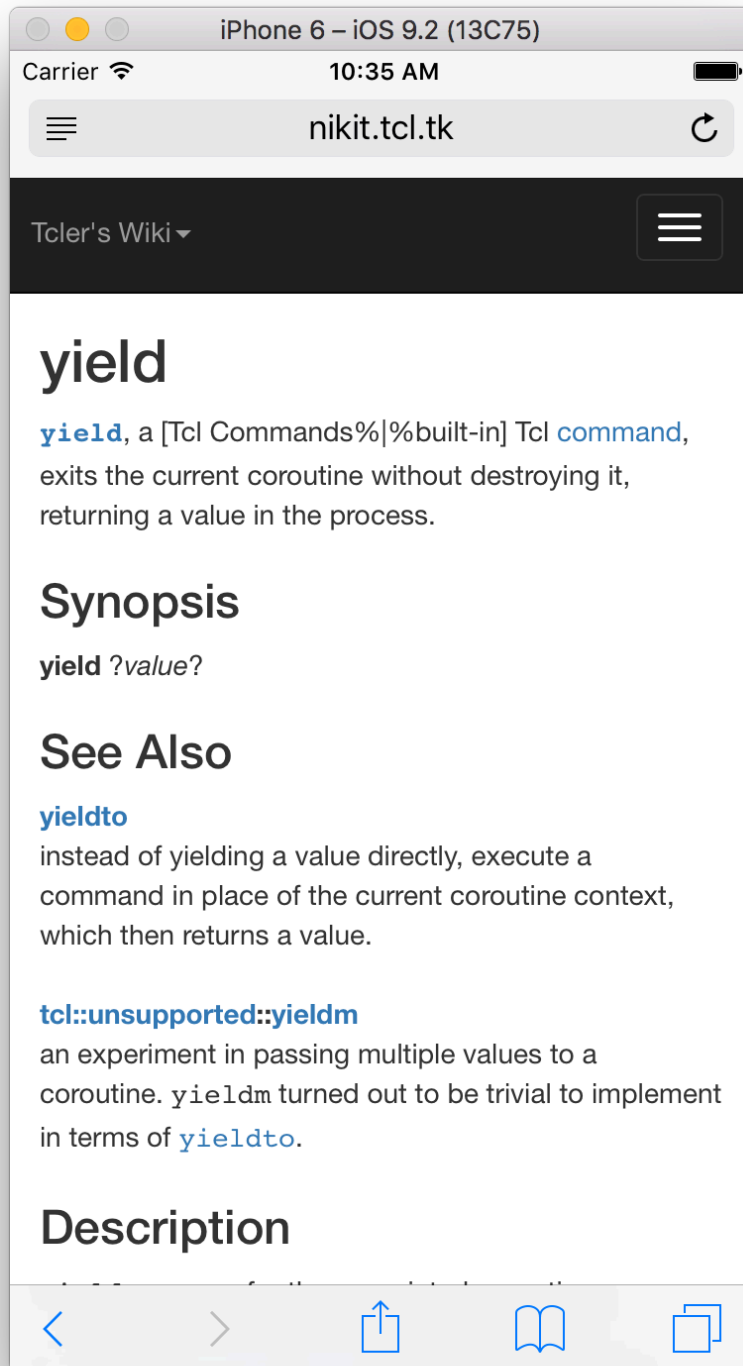
**yield** arranges for the associated coroutine command of the current coroutine to return *value* if it is provided, or the **empty string** otherwise. The current coroutine context continues to exist. The next time the associated coroutine context command is executed, any argument passed to it becomes 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
}
```





# 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



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

%%built-in] Tcl [command](#), exits

**yield ?value?**

# yield

[yield](#), a [Tcl Command] value in the process

## Synopsis

**yield ?value?**

## See Also

[yieldto](#)

instead of yielding a returns a value.

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

an experient in passing multiple values to a coroutine. `yieldm` turned out to be trivial to ir

- Comment
- Edit
- Upload
- References
- History

- Synopsis
- See Also
- Description
- Example: Basic
- Coloop
- Example: `yield` From Any Command in a Coroutine Context

it des

ne cor

# 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

## Confirm edit for Learn to Program

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

I'm not a robot



reCAPTCHA  
[Privacy](#) - [Terms](#)

Confirm

Cancel



## 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

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

<code>&lt;&lt;include:page&gt;&gt;</code>	include another page
<code>&lt;&lt;redirect ?reason?&gt;&gt; page</code>	redirect to another page
<code>&lt;&lt;motd&gt;&gt;</code>	display message of the day
<code>&lt;&lt;changes&gt;&gt;</code>	include 10 most recent changes
<code>&lt;&lt;categories&gt;&gt;</code>	page categories
<code>&lt;&lt;discussion&gt;&gt;</code>	show/hide part of page
<code>&lt;&lt;inlinehtml&gt;&gt;</code>	insert HTML within Wiki markup
<code>&lt;&lt;backrefs?:name?&gt;&gt;</code>	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 `|`

<code>%   1   2   3   %</code>	<code>+ %</code>
<code>  4   5   6  </code>	<code>  1</code>
<code>  7   8   9  </code>	<code>  2</code>
	<code>  3</code>
	<code>+</code>
	<code>  4</code>
	<code>  5</code>
	<code>  6</code>
	<code>+</code>
	<code>  7</code>
	<code>  8</code>
	<code>  9</code>

# 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!