Architecture
Glue
Storage
Formatters
Search
Plugins

Wikis with Wiki::Toolkit

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Architecture

- Storage
- Formatter(s)
- Plugins
- Search
- Glue

Wiki::Toolkit Setup

```
my $store = new Wiki::Toolkit::Store::MySQL(dbname => 'wiki',
    dbuser => 'wiki',
    dbpass => 'wikisecret');

my $formatter = new Wiki::Toolkit::Formatter::UseMod;

my $search = new Wiki::Toolkit::Search::DBlxFTS(dbh => $store->dbh);

my $wiki = new Wiki::Toolkit(store => $store,
    formatter => $formatter,
    search => $search,
);
```

Basic Methods

```
# create node
$wiki->write_node($name, $text, undef, \%metadata);
# retrieve and display node
my %node = $wiki->retrieve_node({name => $name, version => $version})
my $output = $wiki->format($node{content}, $node{metadata});
# update node
$wiki->write node($name, $text, $node{checksum}, \%metadata);
```

Storage Backends

- MySQL
- PostgreSQL
- SQLite

Storage Setup

```
#! /usr/bin/perl
use Wiki::Toolkit::Setup::MySQL;
my $dbname = 'wiki';
my $dbuser = 'wiki';
my $dbpass = 'wikisecret';
my $dbhost;
Wiki::Toolkit::Setup::MySQL::setup($dbname,
                            $dbuser.
                            $dbpass.
                            $dbhost);
```

Storage Backends Storage Setup Storage Tables Metadata

Storage Tables

content Nodes
metadata Metadata
internal_links Page Links
schema_info Schema Version

Metadata

```
# store metadata
my %metadata = {country => 'USA',
    state => 'Florida'.
    city => 'Orlando'};
$wiki->write node($node, $content, $checksum, \%metadata);
# retrieve metadata
my %node = $wiki->retrieve node('Perl Oasis');
for (keys %{$node{metadata}}) {
    print "Metadata_\_:\_\node{$metadata}->{$_-\01\n";
```

Methods
Constructor Options
Macros
Formatters in CPAN
Multiple Formatters
Writing Formatters

Methods

```
my $html = $formatter->format($content);
my @links = $formatter->find_internal_links($content);
```

Constructor Options

Macros

```
\label{eq:macros} \begin{tabular}{lll} macros => & qr/(^|\b|)@SEARCHBOX(\b|\$)/ => \\ & qq(<form action="wiki.cgi" method="get"> \\ & <input type="hidden" name="action" value="search"> \\ & <input type="text" size="20" name="terms"> \\ & <input type="submit"> </form>) & \\ \end{tabular}
```

Methods Constructor Options Macros Formatters in CPAN Multiple Formatters Writing Formatters

Formatters in CPAN

- MediaWiki
- UseMod
- MarkDown
- ▶ POD

Multiple Formatters

Multiple Formatters

Multiple Formatters

```
# write node
$metadata{formatter} = 'mediawiki';
$wiki->write_node($name, $text, $checksum, \%metadata);
# retrieve node
%node = $wiki->retrieve_node($name);
# display node
$wiki->format($node{content}, $node{metadata});
```

Writing Formatters

Wiki::Toolkit::Formatter::Foo

format() method

Text::WikiFormat

Search Backends

- Wiki::Toolkit::Search::SII
- Wiki::Toolkit::Search::DBIxFTS

Search Setup

```
#! /usr/bin/perl
use Wiki::Toolkit::Setup::DBlxFTSMySQL;
my $dbname = 'wiki';
my $dbuser = 'wiki';
my $dbpass = 'wikisecret';
my $dbhost;
Wiki::Toolkit::Setup::DBlxFTSMySQL::setup($dbname,
                            $dbuser.
                            $dbpass.
                            $dbhost);
```

Search Example

Plugins

```
my $plugin = new Wiki::Toolkit::Plugin::Diff;
$wiki->register_plugin(plugin => $plugin);
%diff = $plugin->differences(node => 'FrontPage',
    left_version => 101,
    right_version => 105);
```

Plugins in CPAN

Diff format differences between versions

Categorizer category management

JSON recent changes as JSON

Locator::Grid manage co-ordinate data

Ping ping various services on node updates

RSS::Reader retrieve feeds for node inclusion

The End

CPAN http://search.cpan.org/perldoc?Wiki::Toolkit

Website http://www.wiki-toolkit.org/

Talk http://www.linuxia.de/talks/opw2010/wiki-toolkit-

opw2010-beamer.pdf

Questions ???