

Tanz!

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Tanzflur

- ▶ einfach
- ▶ ausdrucksstark
- ▶ effektiv
- ▶ minimale Abhängigkeiten

Projekte

- ▶ Dropbox-Klon
- ▶ LDAP Benutzerverwaltung
- ▶ Procurement für American Corners

Dropbox

- ▶ Autoindex
- ▶ Upload/Download
- ▶ Benutzerverwaltung

LDAP Benutzerverwaltung

- ▶ LDAP-Verzeichnis
- ▶ Benutzerverwaltung
 - ▶ Administrator
 - ▶ Referrer
 - ▶ Patron

Procurement für American Spaces

- ▶ Warenkorb/Wunschliste
- ▶ Genehmigungsprozesse
- ▶ LibraryThing
- ▶ ISBNDB

`https://vsc.state.gov/`

Rezept für Routes

```
#!/usr/bin/env perl

use Dancer;

get '/' => sub {
    template 'index';
};

dance;
```

Routes

- ▶ String
- ▶ String mit benannten Parametern
- ▶ String mit Wildcards
 - ▶ Splat
 - ▶ Megasplat
- ▶ Regulärer Ausdruck
- ▶ Regulärer Ausdruck mit Captures

Splat

```
get '/images/covers/*.jpg' => sub {  
  my ($isbn) = splat;  
  
  if (-f "public/images/covers/$isbn.jpg") {  
    return send_file "images/covers/$isbn.jpg";  
  }  
  
  status 'not_found';  
  forward 404;  
}
```

Megasplat

<https://vsc.state.gov/lostpwd/biz@linuxia.de/e642bd543b9907bd2c06aa4>

```
get '/lostpwd/**' => sub {  
  my ($email, $hash) = splat;  
  
  form->fill(email => $email,  
             hash => $hash);  
  
  template('lostpwd_confirm', form => $form);  
}
```

Captures

https://dropbox.nite.si/~racke/talks/dancer-beamer.pdf

```
any qr{^/~(?<user>[/]+)/(?<file>.*?)/?$} => sub {  
  my ($scpts, $user, $file);
```

```
  $scpts = captures;  
  $file = $scpts->{file};  
  $user = $scpts->{user};
```

```
  ...
```

```
};
```

Präfix

```
prefix '/wiki';

get qr{/(?(<page>.*))} => sub {
  my $scpts = captures;

  template 'wiki', {content => wiki($scpts->{page}),
                  page => $scpts->{page}};
};
```

Filters

```
before sub {  
};
```

```
after sub {  
};
```

before

```
before sub {  
  unless (session('user'))  
    || request->path eq '/login'  
    || request->path =~ m%^/lostpwd%  
  ) {  
    redirect '/login';  
  }  
};
```

Hooks

```
hook before_template_render => sub {  
  my $tokens = shift;  
  my $menu;  
  
  if (session('user')) {  
    $menu = [{name => 'Logout', url => '/logout'}];  
  }  
  else {  
    $menu = [{name => 'Login', url => '/login'}];  
  }  
  
  $tokens->{menu} = $menu;  
};
```

Plugins

- ▶ Funktionalität
- ▶ Schlüsselwort
- ▶ Route
- ▶ Konfiguration

Plugins auf CPAN

- ▶ `Dancer::Plugin::Database`
`database`
- ▶ `Dancer::Plugin::Email`
`email`
- ▶ `Dancer::Plugin::Ajax`
`ajax`

Dancer::Plugin::LibraryThing Konfiguration

```
plugins:  
  LibraryThing:  
    api_key: d231aa37c9b4f5d304a60a3d0ad1dad4  
    directory: public/images/covers  
    size: large
```

Dancer::Plugin::LibraryThing Code

```
use Dancer::Plugin::LibraryThing;

get '/images/covers/*.jpg' => sub {
  my ($isbn, @ret);
  $isbn = splat;

  unless (-f "public/images/covers/$isbn.jpg") {
    @ret = librarything_cover($isbn);
    if (@ret < 3) {
      status 'not_found';
      forward 404;
    }
  }

  return send_file "images/covers/$isbn.jpg";
}
```

Writing Plugins

- ▶ register
- ▶ register_plugin
- ▶ plugin_setting

Plugins und Hooks

```
Dancer :: Factory :: Hook  
  ->instance  
  ->install_hooks ( 'before_cart_add' );
```

Sessions

- ▶ Engine

```
session: Storable
```

- ▶ Verzeichnis

```
session_dir: /var/run/dancer-sessions
```

- ▶ Ablauffrist

```
session_expires: 8 hours
```

Logs

- ▶ Engine

```
logger: file
```

- ▶ Verzeichnis

```
log_path: log
```

- ▶ Format

```
logger_format: "%t [%P] %L @%D> %m in %f l. %l"
```

Szenarien

- ▶ Standalone
 `./bin/app.pl`
- ▶ CGI, FastCGI
- ▶ plackup
 - ▶ Starman
 - ▶ Twiggy
 - ▶ Corona
- ▶ Reverse Proxy

Szenarien: Reverse Proxy

- ▶ Apache
- ▶ nginx
- ▶ Perlbal

Starman

```
plackup -E production  
-s Starman \  
--workers=5 \  
--pid /home/racke/Dropbox/run/Dropbox.pid \  
-p 5000 \  
-a bin/app.pl \  
-D
```

Perlbal

LOAD vpaths
XS enable headers

Perlbal: Pools

```
CREATE POOL prod_starman_dosqua  
  POOL prod_starman_dosqua ADD 127.0.0.1:5000
```

```
CREATE POOL prod_starman_vsc  
  POOL prod_starman_vsc ADD 127.0.0.1:5001
```

Perlbal: Reverse Proxy

```
CREATE SERVICE vsc_prod
  SET role                = reverse_proxy
  SET pool                 = prod_starman_vsc
  SET buffer_uploads      = on
ENABLE vsc_prod
```

Perlbal: Selector

```
CREATE SERVICE vsc_selector
  SET listen           = 86.59.13.238:80
  SET role               = selector
  SET plugins            = vpaths
  VPATH .*               = vsc_prod
ENABLE vsc_selector
```

Perlbal: SSL Selector

```
CREATE SERVICE vsc_ssl_selector
  SET listen          = 86.59.13.238:443
  SET role            = selector
  SET plugins        = vpaths
  SET enable_ssl     = on
  SET ssl_key_file   = /etc/ssl/private/vsc.state.gov.key
  SET ssl_cert_file  = /etc/ssl/certs/vsc.state.gov.pem
  VPATH .*          = vsc_prod
ENABLE vsc_ssl_selector
HEADER vsc_ssl_selector INSERT X-Forwarded-Proto: HTTPS
```

Skripts

```
use Dancer ':script';  
  
set logger => 'console';  
set logger_format => '%m';
```


Dancer2

- ▶ keine globalen Variablen
- ▶ 100% OO Backend (Moo)
- ▶ Scoping for Sub-Applikationen
- ▶ überarbeitete Architektur

Community

Web: `http://perldancer.org/`

Github: `git://github.com/sukria/Dancer.git`

IRC: `#dancer @ irc.perl.org`

Mitarbeit: `Dancer::Development`

The End

Slides, Handout, Skripte:

<http://www.linuxia.de/talks/pws2011/>