

# No Act on ACT

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2016-09-21

# YAPC::EU 2008 in Copenhagen



# PerlDancer for Perlers (FOSDEM 2011)

## PHP – the nonsensical



Sawyer's presentation

# Perl Dancer Conference 2014



<http://act.perl.dance/eic2014/>

# Using ACT in 2013/2014

- ▶ Managed software
- ▶ Listed in other conferences (Marketing)
- ▶ User database

# Modern Perl for web applications

- ▶ PSGI / Plack
- ▶ Web application framework (Dancer2)
- ▶ Web framework (Bootstrap, JQuery)
- ▶ DBIx::Class
- ▶ Moo and friends
- ▶ Testing

# mod\_perl vs PSGI

- ▶ Apache / mod\_perl
  - ▶ slow
  - ▶ memory footprint
  - ▶ deployment related code
- ▶ PSGI
  - ▶ runs on any webserver supporting PSGI
  - ▶ fast (Nginx)
  - ▶ simple configuration (Nginx)
  - ▶ no deployment related code

# Apache version

*Apache/1.3.42 (Unix) mod\_perl/1.31*

***more than 6 years old***



# Dancer2 Advantages

- ▶ Clean OO interface
- ▶ Routes
- ▶ Hooks
- ▶ Engines
- ▶ Multiple Applications
  - ▶ Web application
  - ▶ REST API
  - ▶ Admin interface

# Manual SQL vs DBIx::Class

- ▶ Manual SQL
  - ▶ error prone
  - ▶ compatibility problems
  - ▶ less secure
- ▶ DBIx::Class
  - ▶ Business logic
  - ▶ works on dozens of RDBMS
  - ▶ usually faster
  - ▶ more secure

# More Reasons for "No act on ACT"

- ▶ Single Point of Failure
- ▶ Development
- ▶ Responsiveness
- ▶ No https://

# Single Point of Failure

- ▶ Baltimore Perl Workshop
- ▶ Eventbrite

# Development

- ▶ Last commit on ACT: July 2015  
`https://github.com/book/Act`
- ▶ Last commit on ACT in the box: September 2015

# Hackathon in Lyon



# Responsiveness



Figure: Picture by Guillaume Brocker, CC BY-SA 3.0

# PERLDANCER 2016

VIENNA, AUSTRIA

SEPT 20 - SEPT 22

<https://github.com/interchange/Perl-Dancer-Conference>



# Web Application Features

- ▶ Maps with Leaflet
- ▶ Cropping Photos
- ▶ Administration
- ▶ SEO / Modern Design
- ▶ Dancer2::Debugger

# Maps with Leaflet

- ▶ Venue on Frontpage
- ▶ Leaflet library
- ▶ Leaflet code
- ▶ User map

# Venue on Frontpage

Conference Venue - Hotel Schani Wien 21/22 Sep

📍 Karl-Popper-Straße 22, 1100 Vienna, Austria



# Leaflet Library

Leaflet Javascript library

## Leaflet Code

```
var map = L.map('map').setView([48.20078,16.36826], 13);
L.tileLayer('https://api.tiles.mapbox.com/v4/{id}/{z}/{x}/-
  attribution: 'Map data &copy; <a href="http://openstreetm
  maxZoom: 18,
  id: 'petermottram.mp1dpak2',
  accessToken: 'pk.eyJ1IjoicGV0ZXJtb3R0cmFtIiwiaSI6IjE1NWl5
}).addTo(map);
var marker2 = L.marker([48.18246, 16.38075]).addTo(map);
marker2.bindPopup("<b>Hotel Schani Wien</b><br>Karl-Popper-
$("#marker2").click(function(){
  marker2.openPopup();
  return false;
});
```

# User Map

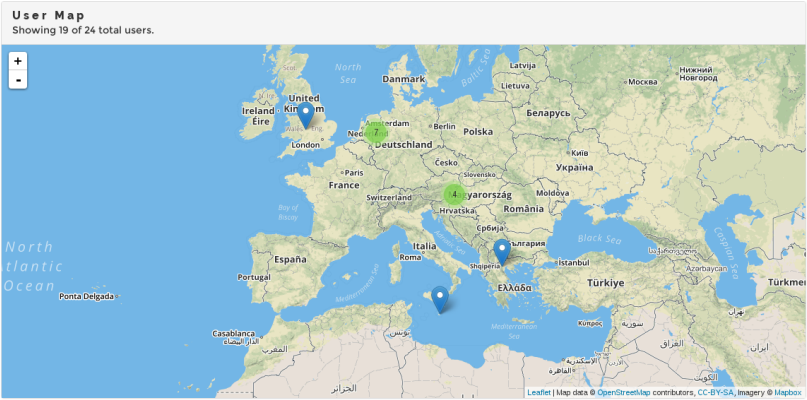


Figure: User Map

# Cropping photos

You can drag and drop or upload your photo and crop it in our website.

## Current photo

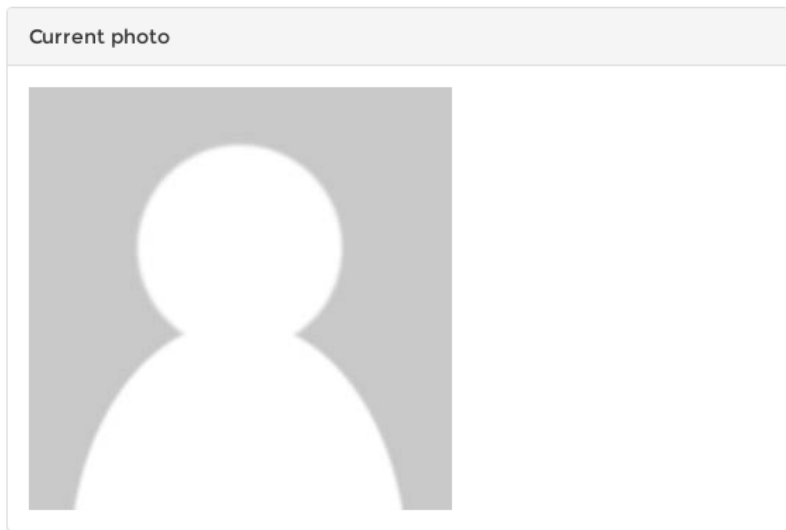


Figure: /profile/photo



# Ballerina



# Cropping I

Upload a new photo min 300x300px, max 10MB



ballet-1033163\_1280.jpg



 ballet-1033163\_1280.j ...

 Remove

 Upload

 Browse ...

# Cropping II

Please crop image



Submit

# Final Result



## Jcrop - jQuery Image Cropping Plugin

# SEO / Modern Web Design

- ▶ Secure site with HTTPS
- ▶ Speaking links

# Secure site with HTTPS

- ▶ More secure and gives users more confidence
- ▶ Small ranking boost with Google
- ▶ Free certificates with Let's Encrypt

# Speaking Links I

**STEFAN HORNBURG**  
*No Act on ACT*

**I AM A SPEAKER AT**

---

**YAPC::EUROPE**  
**24-26 AUGUST**    **CLUJ-NAPOCA**  
**2016**

<http://act.yapc.eu/ye2016>

Figure: No act on ACT



## Speaking Links II

ACT <http://act.yapc.eu/ye2016/talk/6780>

PDC <https://www.perl.dance/talks/40-no-act-on-act>

# Administration

- ▶ Users
- ▶ Talks
- ▶ Tickets
- ▶ Events
- ▶ News

# Navigation

PERLDANCER 2016

TALKS ▾ TICKETS WIKI USERS ▾ SPONSORS ▾ ADMIN ▾ MY ACCOUNT ▾

Name	Type	Scope	URI	Description	Alias	Priority	Active	Edit	Delete	Child
▼ Admin	nav	menu-admin	admin	Administration		0	Yes	☑	☒	☑
Navigation	nav		admin/navigation	Navigation Administration		0	Yes	☑	☒	☑
Talks	nav		admin/talks	Talks Administration		0	Yes	☑	☒	☑
Users	nav		admin/users	User Administration		0	Yes	☑	☒	☑
T-shirts required	nav	menu-admin	admin/t-shirts			0	Yes	☑	☒	☑
Events	nav	menu-admin	admin/events	Event Admin		0	Yes	☑	☒	☑
Tickets Sold	nav	menu-admin	admin/tickets			0	Yes	☑	☒	☑
News	nav		admin/news	News Administration		0	Yes	☑	☒	☑
▼ Talks	nav	menu-main				60	Yes	☑	☒	☑
Talks	nav		talks	List of talks		100	Yes	☑	☒	☑
Submit a talk proposal	nav		talks/submit			90	Yes	☑	☒	☑
Favourite Talks	nav		talks/favourite			80	Yes	☑	☒	☑
Talks Schedule	nav		talks/schedule			70	Yes	☑	☒	☑
Personal Schedule	nav	menu-main	myschedule			68	Yes	☑	☒	☑
Speakers	nav		speakers	Meet Our Speakers!		65	Yes	☑	☒	☑
iCal export	nav		talks/timetable.ics			60	No	☑	☒	☑
2015 Talks Archive	nav	menu-main	talks/archive/2015	Peri-Dancer Conference 2015 Talks Archive		30	Yes	☑	☒	☑
Tickets	nav	menu-main	tickets	Get Your Seat Before It's Too Late		40	Yes	☑	☒	☑
Wiki	nav	menu-main	wiki	Wiki		30	Yes	☑	☒	☑
▼ Users	nav	menu-main				25	Yes	☑	☒	☑
Map	nav		users	User Map		100	Yes	☑	☒	☑
Search	nav		users/search	User Search		80	Yes	☑	☒	☑
Statistics	nav		users/statistics	User Statistics		60	Yes	☑	☒	☑
▼ Sponsors	nav	menu-main				20	Yes	☑	☒	☑
▼ Our Sponsors	nav		sponsors	Sponsors		100	Yes	☑	☒	☑
Diamond Sponsor	nav		sponsors/diamond			50	Yes	☑	☒	☑
Gold Sponsor	nav		sponsors/gold			40	Yes	☑	☒	☑
Silver Sponsor	nav		sponsors/silver			30	Yes	☑	☒	☑
Bronze Sponsor	nav		sponsors/bronze			20	Yes	☑	☒	☑
Sponsoring	nav		sponsoring	Become a Sponsor!		80	Yes	☑	☒	☑
▼ Login	nav	top-login				10	Yes	☑	☒	☑
Login	nav		login	Login or Register		100	Yes	☑	☒	☑
Register for Conference	nav		register			80	No	☑	☒	☑
Reset Password	nav		reset_password			70	Yes	☑	☒	☑

# Dancer2::Debugger

## Dancer2::Debugger Presentation



📅 Sep 22, 2016

🕒 11:30 - 12:10

📍 Schani

👤 [Peter Mottram](#)

### Plack::Debugger meets Dancer2

I've been a user of Plack::Middleware::Debug with its various Dancer panels since I started working with Dancer in early 2014. After seeing Stevan Little's presentation of his newly released Plack::Debugger at LPW2014 I decided I needed to play with this great tool ASAP...

Sixteen months later in April 2016 I finally started using Dancer2 for real work and found that no debug panels existed for Plack::Middleware::Debug so I looked for Plack::Debugger panels for Dancer2 and found nothing. The result was that I started work on Dancer2::Debugger which provides Dancer2 panels for Plack::Debugger along with a Dancer2 plugin to make configuration as simple as possible.

This talk will cover aspects of the design and use of Plack::Debugger and its companion Dancer2::Debugger along with practical demos.

# DBIx::Class Techniques

- ▶ Set Based DBIx::Class

  - <http://www.perladvent.org/2012/2012-12-21.html>

    - ▶ Truth of ResultSet
    - ▶ Chaining
    - ▶ Relationship traversal
    - ▶ Predefined searches

- ▶ Hashref Inflation

# Truth of ResultSet

This doesn't execute SQL:

```
my $talks = $schema->resultset('Talk')->search(...);
```

This does:

```
my $first_talk = $schema->resultset('Talk')  
                ->search(...)->first;
```

# Chaining

```
my $stalks = $schema->resultset('Talk')
  ->search({-bool          => 'accepted'})
  ->search({conferences_id => 1})
  ->search({room          => { '!=' => '' }},
  ->search({start_time    => {
    '>=' => '2015-10-22 00:00:00'
    '<=' => '2015-10-23 00:00:00'
  }}),
);
```

## Relationship Traversal

```
# countries dropdown
$tokens->{countries} = [
  $users->search_related(
    'addresses',
    {
      type => 'primary',
    },
  )->search_related(
    'country', undef,
    {
      columns => [ 'country_iso_code', 'name' ],
      distinct => 1,
      order_by => 'country.name',
    }
  )->hri->all
];
```



## Hashref Inflator

```
# countries dropdown
$tokens->{countries} = [
    rset('Country')->search( undef,
        { columns => [ 'country_iso_code', 'name' ],
          order_by => 'name' } )
    ->hri->all
];
unshift @{$tokens->{countries}},
    { country_iso_code => undef, name => "Select Country" };
```

## Predefined Searches

User class:

```
sub last_conference_attended {  
    my $self = shift;  
    my $conference = $self->conferences->search({}, {  
        order_by => { -desc => 'start_date' },  
    })->first;  
}
```

Web application:

```
my $conference = $user->last_conference_attended;  
  
;
```

# Dancer2

- ▶ Code structure
- ▶ Hooks
- ▶ Plugins
- ▶ Plack::Middleware

# Code Structure

- ▶ Main module
- ▶ Multiple modules for routes

# Main Module

```
use Dancer2;

use PerlDance::Routes::Account;
use PerlDance::Routes::Admin;
use PerlDance::Routes::Data;
use PerlDance::Routes::PayPal;
use PerlDance::Routes::Profile;
use PerlDance::Routes::Survey;
use PerlDance::Routes::Talk;
use PerlDance::Routes::User;
use PerlDance::Routes::Wiki;
```

## Route module I

```
use Dancer2 appname => 'PerlDance';

use Dancer2::Plugin::Auth::Extensible;
use Dancer2::Plugin::DataTransposeValidator;
use Dancer2::Plugin::DBIC;
use Dancer2::Plugin::Email;
use Dancer2::Plugin::Deferred;
use Dancer2::Plugin::Interchange6;
use Dancer2::Plugin::TemplateFlute;

prefix '/profile';
```

## Route module II

```
get '/talk/create' => sub {  
  my $tokens = {  
    title => "New Talk",  
  };  
  
  $tokens->{form} = form('create-update-talk');  
  $tokens->{form}->reset;  
  $tokens->{form}->fill( duration => 40 );  
  
  add_durations_token($tokens);  
  
  template 'profile/create_update_talk', $tokens;  
};
```

## Hooks used

```
hook 'before_template_render' => sub {  
  my $tokens = shift;  
  
  if ( my $user = logged_in_user ) {  
    $tokens->{logged_in_user} = schema->current_user;  
  }  
  
  $tokens->{conference_name} = setting('conference_name');  
};
```



# Plugins used

Dancer2::Plugin::Auth::Extensible User Authentication

Dancer2::Plugin::DataTransposeValidator Form validation

Dancer2::Plugin::DBIC DBIx::Class Wrapper

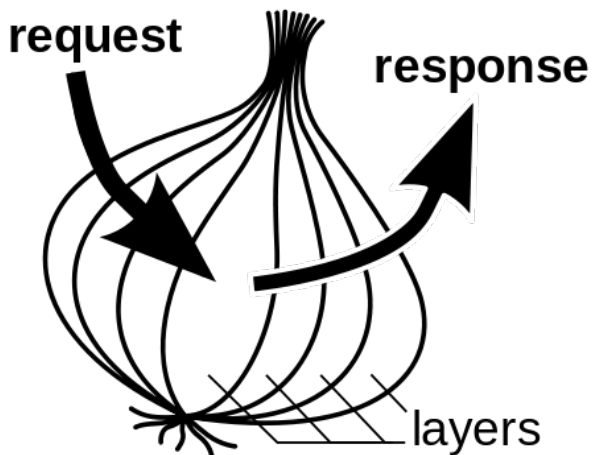
Dancer2::Plugin::Deferred Flash messages after redirect

Dancer2::Plugin::Email Sending emails

Dancer2::Plugin::Interchange6 Cart and other business functions

Dancer2::Plugin::TemplateFlute Form handling

## Plack Middleware



## Cross-site request forgery (CSRF/XSRF)

```
Plack::Middleware::XSRFBlock
```

```
# bin/app.psgi
```

```
use Plack::Builder;
```

```
use PerlDance;
```

```
my $app = PerlDance->to_app;
```

```
builder {
```

```
  enable 'Session';
```

```
  enable 'XSRFBlock',
```

```
    cookie_name      => 'Perldance-XSRF-Token',
```

```
    meta_tag         => 'xsrp-meta',
```

```
    cookie_options => { httponly => 1, };
```

```
  enable 'XForwardedFor',
```

```
    trust => [qw( 127.0.0.1 10.0.0.0/8 172.16.0.0/20 192
```

```
  $app;
```

```
}
```

# Summary

- ▶ Modern Perl
- ▶ Missing features
- ▶ Perl Dancer Conference 2016
- ▶ Call for developers
- ▶ Ask questions

# Missing features

- ▶ Multilingual GH #8
- ▶ Drag and drop schedule tool
- ▶ Multisite
- ▶ Multiple speakers GH #104

Perl Dancer Conference 2016

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# Call for developers

`https://github.com/interchange/Perl-Dancer-Conference`

# Questions

Questions?