(Not Quite) Everything About Dancer 2

Bob King
May 5, 2021
Why have another web framework?
Why have another web framework?

WHY NOT?
use Mojolicious::Lite;
get '/' => {text => 'I ♥ Mojolicious!'};
app->start;
use Dancer2;
get '/' => sub { "Hello World" };
dance;
Where they differ

- Mojo is more all-inclusive (has its own user-agent, webservers, templating system, interfaces with thing like PostgreSQL)
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- Some have accused Mojo of being “**anti-CPAN**”
- But Mojo has **much more robust documentation** and a **long history of supporting async** and websockets
- Dancer is **catching up**
A little about me...
… Not a programmer

Don’t necessarily know stuff
Typical constraints in newsrooms

- No time
- No money
- Trying to get information out of government agencies that have outdated systems, not always motivated to help, may be hiding something
- Have I mentioned no time?
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*Perl is an ideal solution*
NAME

VERSION

SYNOPSIS

DESCRIPTION

IMPORTANT LINKS

CONSTRUCTOR AND STARTUP

   new()
   $mech->agent_alias( $alias )
   known_agent_aliases()

PAGE-FETCHING METHODS

   $mech->get( $uri )
   $mech->post( $uri, content => $content )
   $mech->put( $uri, content => $content )
“You ought to be using Python”
“You ought to be using Python”

“You really ought to be using Django”
Now back to Dancer...
#!/usr/bin/env perl
use Dancer2;
get '/' => sub { return 'Hello World!' };
dance; # alias for 'start'
#!/usr/bin/env perl
use Dancer2;
get '/' => sub { return 'Hello World!' };
dance; # alias for 'start'

$ perl dancer_demo1.pl
#!/usr/bin/env perl
use Dancer2;
get '/' => sub { return 'Hello World!' };
dance; # alias for ‘start’

- $ perl dancer_demo1.pl
- >> Dancer2 v0.301002 server 10595 listening on http://0.0.0.0:3000
#!/usr/bin/env perl
use Dancer2;
get '/' => sub { return 'Hello World!' };
dance; # alias for 'start'

- This also works, by the way
- $ plackup -p 3000 dancer_demo1.pl
Routes and placeholders

# index.html

get '/' => sub {

  "<h1>Hello!</h1>"

};
get '/hello' => sub {

  "<h1>Hello you!</h1>";

};
# Route with a placeholder:
# index.html/hello/John, for example

get '/hello/:name' => sub {
    my $name = params->{name};
    "<h1>Hello, $name!</h1>";
};
# Route with a placeholder:
# index.html/hello/John, for example

get '/hello/:name' => sub {
  my $name = route_parameters->get('name');
  "<h1>Hello, $name!</h1>";
};
# Route with an optional placeholder:
# index.html/hello/John, for example

get '/hello/:name?' => sub {
  my $name =
    route_parameters->get('name') || 'You Know Who';
  "<h1>Hello, $name!</h1>";
};
Create a full app scaffold

- $ dancer2 gen -a MyApp

```
+ MyApp/views/index.tt
+ MyApp/public/css
+ MyApp/public/css/style.css
+ MyApp/public/css/error.css
+ MyApp/public/images
+ MyApp/public/images/perldancer-bg.jpg
+ MyApp/public/images/perldancer.jpg
+ MyApp/public/javascripts
+ MyApp/public/javascripts/jquery.js
+ MyApp/views/layouts
+ MyApp/views/layouts/main.tt

Your new application is ready! To run it:

    cd MyApp
    plackup bin/app.psgi

If you need community assistance, the following resources are available:
- Dancer website: http://perldancer.org
- Mailing list: http://lists.perldancer.org/mailman/listinfo/dancer-users
- IRC: irc.perl.org#dancer

Happy Dancing!
```
Perl is dancing
You've joined the dance floor!

Getting started
Here's how to get dancing:

**About your application's environment**

1. Tune your application

   Your application is configured via a global configuration file, `config.yml` and an "environment" configuration file, `environments/development.yml`. Edit those files if you want to change the settings of your application.

2. Add your own routes

   The default route that displays this page can be removed, it's just here to help you get started. The template used to generate this content is located in `views/index.tt`. You can add some routes to `lib/MyApp.pm` `lib/MyApp.pm`.

3. Enjoy web development again

   Once you've made your changes, restart your standalone server (`bin/app.psgi`) and you're ready to test your web application.
Case study: WFMU

Independent freeform radio broadcasting at 91.1 and 91.9 FM in New Jersey and New York City, and at 90.3 and 91.9 FM in the Hudson Valley, with gobs of online offerings.

NEWS FROM THE FREEFORM FRONT

Hang in There! The Swag Shall Come
Case study: WFMU

Therese: Playlists and Archives

- View Therese's profile

Tangents, parenthetical asides, and digressions.

Sundays 6 - 8pm (EDT) | On WFMU | 91.1, 90.1, 91.9 FM & wfmu.org
WFMU LIVE Audio Streams (Get help): Pop-up | 128k AAC | 128k MP3 | 32k MP3

- April 25, 2021: See the playlist | Listen: MP3 - 128k | Pop-up player!
- April 18, 2021: See the playlist | Listen: MP3 - 128k | Pop-up player!
- April 11, 2021: A Romeo Void Record in the Basement (Is a Temporary Thing) | See the playlist | Listen: MP3 - 128k | Pop-up player!
- April 4, 2021: Hippos can't swim. | See the playlist | Listen: MP3 - 128k | Pop-up player!
- March 28, 2021: LIVE FROM STUDIO A!!! | See the playlist | Listen: Pop-up player!
- March 21, 2021: On the final day of the WFMU fundraiser, a pocket universe comments page formed! | See the playlist
- March 21, 2021: Let's bring this home... | See the playlist | Listen: Pop-up player!
- March 14, 2021: Let's raise some money with MC Gaylord Fields! | See the playlist | Listen: Pop-up player!
- March 7, 2021: Week One of the 2021 fundraising marathon with co-host GAYLORD FIELDS! | See the playlist | Listen: Pop-up player!
- February 28, 2021: Back in Monty Hall! It's an anxiety dream come true!! | See the playlist | Listen: Pop-up player!
- February 21, 2021: My kitchen may be stuck in a time loop. | See the playlist | Listen: Pop-up player!
- February 14, 2021: Spring forward to Mardi Gras, my loves. | See the playlist | Listen: Pop-up player!
- February 7, 2021: Snow dream, snow fall, snow fly... | See the playlist | Listen: Pop-up player!
- January 31, 2021: Dreams unwind. Love's a state of mind. | See the playlist | Listen: Pop-up player!
- January 24, 2021: It's hard to be a diamond in a rhinestone world... | See the playlist | Listen: Pop-up player!
- January 17, 2021: Amanda filled in.
- January 10, 2021: We passed upon the stairs... | See the playlist | Listen: Pop-up player!
- January 3, 2021: Three cheers and dammit, c'est la vie. | See the playlist | Listen: Pop-up player!
- December 27, 2020: See the playlist | Listen: Pop-up player!
- December 20, 2020: I WILL get myself to get into the holiday spirit, dang it! | See the playlist | Listen: Pop-up player!
- December 13, 2020: Safe up here with you... | See the playlist | Listen: Pop-up player!
- December 6, 2020: We will make it through December. | See the playlist | Listen: Pop-up player!
### WFMU's Most Recent Archives

Click MP3 / Pop-up links to hear last episode • Click playlist links for playlists & chat • Other streams & hit lists are at bottom • Updated May 24:51am

**RSS feeds:** MP3 | Playlists

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<td>Michael Shelly</td>
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<td>Three Chord Monte</td>
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<td>Radial Revival (200-4) withSlide</td>
<td>Scott Williams</td>
<td>Strength Through Failure</td>
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<td>Tachypnoic with Mike Hurst</td>
<td>Music Of Mind Control</td>
<td>The Fuzzy Grove Hour</td>
<td>Old Cogger with Counters &amp; Edition</td>
<td>Dance With Me, Stanley</td>
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<td>Vocal Fry with Don Stahl</td>
<td>Monarchia Airlines</td>
<td>Weekly World Blues</td>
<td>Miracle Nutrition</td>
<td>Put The Needle On The Record</td>
<td>Transatlantic Sound Paradise</td>
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<td>The Row Show with Kevin Brown</td>
<td>A440 / Stochastic Hopper Parade</td>
<td>Honky Tonk Radio Girl</td>
<td>Sinners Crossroads</td>
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<td>The Zoo with Jim Smoot</td>
<td>The EVen Funk Davies Show</td>
<td>The En Green Band with Joe Zara</td>
<td>New York Underground</td>
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<td>2am</td>
<td>Polyglot with Joe DiMartino</td>
<td>Dot Dash Radio with Tom Dow</td>
<td>Novelton And Lots Radio with Small Change</td>
<td>What Was Music? with Michael M</td>
<td>Inflatable Squirrel Cesspool with Rich Houston</td>
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**Case study:** WFMU
Case study: WFMU

Your choices are:

A2 -- The Arbitrarium
AA -- Atlantic Tunnel
AI -- If You Lose Your Horse
AT -- What's Happening?!?!
AX -- Acid Jazz Hands
B4 -- Burbujas
B8 -- Down In The Basement
BB -- Bob Brainen
BJ -- Put The Needle On The Record
BK -- Bryce
BY -- Marty McSorley
CE -- Crayons to Perfume
CF -- Sophisticated Boom Boom
CJ -- Cannibal Stew
CK -- Travel Zone
CL -- Busy Doing Nothing
CM -- Feelings
CR -- Sinner's Crossroads
CJ -- Cha Cha Heels
<table>
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<th>TG</th>
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<tr>
<td>TM</td>
<td>Three Chord Monte</td>
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<td>TP</td>
<td>Transpacific Sound Paradise</td>
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<td>TT</td>
<td>The Cherry Blossom Clinic</td>
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<td>Double-Dip Recess</td>
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<td>UE</td>
<td>The Cool Blue Flame</td>
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<td>UR</td>
<td>Sounds Spectacular</td>
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<td>US</td>
<td>Sounds Under 64 Not Allowed</td>
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<td>VC</td>
<td>Vortex of Chaos</td>
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<td>Vocal Fry</td>
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<td>WI</td>
<td>Wired Up!</td>
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<td>The World's Worst Records Radio Show</td>
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<td>Your Boy Black Helmet Radio</td>
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<td>YN</td>
<td>Dance With Me, Stanley</td>
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<td>YW</td>
<td>Yes, We Have No Mountains</td>
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<td>ZO</td>
<td>Zoe</td>
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## WFMU show schedule

<table>
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<tr>
<td>A440 / Stochastic Hit Parade</td>
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<td>Acid Jazz Hands</td>
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<td>Atlantic Tunnel</td>
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<tr>
<td>Bedtime Stories</td>
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<td>Big Planet Noise</td>
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<td>Bob Brainer</td>
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<td>Bodega Pop</td>
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<td>Cannibal Stew</td>
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<td>Cha Cha Heels</td>
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<td>Come to the Sunshine</td>
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<td>Continental Subway</td>
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<td>Cratedigger’s Lung</td>
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Case study: WFMU

Choose an episode of Therese

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To-Dos: Learn about async

Asynchronous Dancer2 PT. 1 - What, Why, and How?

Dancer2 has support for asynchronous programming, allowing you to:

- Write code that can run multiple operations at the same time
- Write code that streams the response to the user
- Run code in the background after the user finished the request

These are provided by the Delayed Response capability, which you can also read about in a previous post on it.

This sounds familiar...

If you think you've heard this before, it might be because of this article from the Perl Advent Calendar of 2016, in which we cover the asynchronous interface that Dancer2 provides.

But just because we wrote about it in the past, it does not mean we can't write about it again. Some messages are worth repeating. :)

Dancer Advent Calendar

The PerlDancer Advent Calendar is a community-driven project that aims to showcase the Dancer Perl web framework.

Each day of December until Christmas, one article about Dancer. Stay tuned for new moves!

Archive/RSS Feed

Archive of all articles
2020 RSS Feed
To-Dos: Deployment

readme.md

Dancer seed app for Perloku

Dancer version a sample Perl app deployed on Heroku with Perloku buildpack

App.pl

```perl
#!/usr/bin/env perl
use Dancer;

get '/' => sub {
    "Hello World!"
};
dance;
```

Makefile.PL

```perl
use strict;
use warnings;
```
The example app enables pagination, searching and downloading of the results as CSV/TSV/JSON/XML, to illustrate the easy options which are available.

From the record listing page, Clicking the edit link to edit one of the records will bring up a form to edit the record:
Any questions?