#### Modern PerlCommerce

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## Interchange

- Around since 1995.
- Fast and stable.
- Flexible and extensible.

#### **Showcases**

- ▶ Backcountry http://www.backcountry.com/
- FragnanceNet http://www.fragrancenet.com/

# My projects

- 20 projects
- 6 countries
- ▶ 80% income

# Interchange

# Sounds wonderful!

# Interchange

Sounds wonderful! Really?

# Community

- Small group of developers
- Little activity
- Same people
- Not part of CPAN

### Developer

- Monolithic
- Same codebase
- Hard to find things

#### User

- Obscure templating
- Missing extensions
- Bad demo

### **Past**



## Alternatives to Interchange

- Handel
- Agora
- Business::Cart::Generic

Problem with Existing Codebase

- Problem with Existing Codebase
- Missing alternatives

- Problem with Existing Codebase
- Missing alternatives
- Strong competitors

We need a plan!

Rewrite from scratch ?

- Rewrite from scratch ?
- ▶ Too much work?

- Rewrite from scratch ?
- Too much work ?
- Modern Perl to the rescue!

#### Modern Perl

- ▶ Plack/PSGI
- **OO** 
  - Moose
  - Moo
- Web Frameworks
  - Dancer
  - Catalyst
  - Mojolicious

# **Delegated Tasks**

- Dispatching requests
- Parameter parsing
- Session handling
- Template engine

#### Extensions

- Bundles
- Plugins
- ► Hooks

# **Policy**

- KISS
- Components
- Assumptions
- Expressive



#### Cart

- Session
- DBI
- Webservice \*

#### Account Manager

- DBI
- ► LDAP \*
- ► OpenID \*

Templating Engine

Template::Toolkit

▶ Template::Flute

#### Web framework

- Catalyst
- Dancer
- Mojolicious

### Preferences

- Dancer
- ▶ Template::Flute
- DBI

#### **Features**

- Navigation
- Cart
- Checkout
- Accounts

#### Cart

- ► SKU, Name, Quantity, Price
- ▶ Price > 0
- Combines automatically
- Multiple carts
- Storage everywhere
- Price caching



#### Nitesi::Cart Methods

```
use Dancer::Plugin::Nitesi;
cart -> add (sku => 'POM253', name => 'Pomelo',
     price \Rightarrow 3.00, quantity \Rightarrow 10);
cart -> remove (sku => 'POM253');
cart -> count();
cart -> clear();
cart -> total();
cart -> subtotal();
```

# Everything is a Cart

- Saved Carts
- Wishlists
- Collections

# Multiple Carts

```
cart('wishlist')->add(sku => 'ORA322', name => 'Orange',
    price => 2.00, quantity => 5);
```

#### Cart Backends

- Session
- DBI

Cart Checkout Accounts and Access Control Forms

### **Inventory Check**

MinQuantityField min\_quantity
MaxQuantityField inventory:quantity

### **Inventory Check Hook**

### Cart Hooks

- before\_cart\_add
- after\_cart\_add
- before\_cart\_update
- after\_cart\_update
- before\_cart\_remove
- after\_cart\_remove

# Checkout

- Taxes
- Shipping
- Payment
- Invoice

Cart
Checkout
Accounts and Access Control
Forms

# **Payment**

- Business::CreditCard
- Business::OnlinePayment

## Tax Modules on CPAN

Business::Tax::Canada

Business::CA::GST

Business::Tax::VAT

Business::Tax::VAT::Validation

# Shipping

- Simple Shipping
- Crazy Shipping
- Shipping API

### Costs

- Tax
- Shipping
- Coupons

### **Absolute Costs**

Cart
Checkout
Accounts and Access Control
Forms

## Relative Costs

Cart
Checkout
Accounts and Access Control
Forms

### **Inclusive Costs**

### **PDF Invoices**

- HTML template
- ► Template::Flute::PDF

### Accounts

### Accounts

# Account manager

- Account Providers
- Login/Logout
- Account Information
- Login status
- Forgot password
- Registration

## **Account Provider**

- ► DBI
- ► LDAP \*
- ► Htpasswd \*
- ▶ OpenID \*
- ► OAuth \*

### **Access Control**

- User
- ► Roles
- Permissions

## **Forms**

- Display
- Validation
- Storage

# Web Services

- ► REST
- XML-RPC
- ▶ SOAP

## Nitesi



# Vienna Shopping Cart

https://vsc.state.gov/

# Payment Gateway

- charge keyword
- Business::OnlinePayment
- ACI payment system

# OpenERP Interface

XML-RPC

# Backend/CRM

- Backend
- ► CRM

# Demo Shop

- Templates
- Navigation
- Database
- Payment Tests

#### CPAN/GitHub

- http://search.cpan.org/dist/Nitesi/
- http://search.cpan.org/dist/Nitesi-DBI/
- http://search.cpan.org/dist/ Dancer-Plugin-Nitesi/
- https://github.com/racke/Nitesi
- https://github.com/racke/Nitesi-DBI
- https:
  //github.com/racke/Dancer-Plugin-Nitesi

## The End

Slides: http://www.linuxia.de/talks/perlcommerce/

perlcommerce-beamer.pdf

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