Modern PerlCommerce

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Modern PerlCommerce
Past and Future
API
Development & Deployment

Perl Buzzwords
Modern Perl
PerlCommerce Choices

Nitesi

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Perl Buzzwords
Modern Perl
PerlCommerce Choices

Perl Buzzwords

- ▶ Marketing Perl
- ▶ Modern Perl
- ▶ Postmodern Perl

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Perl Buzzwords
Modern Perl
PerlCommerce Choices

Modern Perl

- ► CPAN
- ► Best Practices
- ► Tests
- ► Separation (Modules, Plugins, Hooks, Templates)
- ► PSGI/Plack

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Perl Buzzwords
Modern Perl
PerlCommerce Choices

PerlCommerce Choices

- ► Interchange
- ► Handel
- ► Agora
- ► Business::Cart::Generic

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Past
Future

Past

- 1995 CGI
- 1995 MiniVend
- 1998 `http://www.materialboerse.de/`
- 2001 Interchange

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Interchange Development

- Lot of things
- Small community
- Same codebase

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Future

Status quo

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Past
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References

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

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Future

Future

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Principles

- ▶ KISS
- ▶ Components
- ▶ Agnostic
- ▶ Expressive

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Agnostic

Cart

- ▶ Session
- ▶ DBI
- ▶ Webservice *

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Agnostic

Account Manager

- ▶ DBI
- ▶ LDAP *
- ▶ OpenID *

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Agnostic

Templating Engine

- ▶ Template::Toolkit
- ▶ Template::Flute

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Agnostic

Web framework

- ► Catalyst
- ► Mojo
- ► Dancer

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Preferences

- ▶ Dancer
- ▶ Template::Flute
- ▶ DBI

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Framework

- ▶ Dispatching requests
- ▶ Parameter parsing
- ▶ Session handling
- ▶ Template engine
- ▶ I18N

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Extensions

- ▶ Bundles
- ▶ Plugins
- ▶ Hooks

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Features

- ▶ Navigation
- ▶ Cart
- ▶ Checkout
- ▶ Accounts

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Cart
Checkout
Accounts and Access Control
Forms

Cart

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

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Accounts and Access Control
Forms

Nitesi::Cart Methods

```perl
use Dancer::Plugin::Nitesi;

cart->add(sku => 'POM253', name => 'Pomelo',
    price => 3.00, quantity => 10);

cart->remove(sku => 'POM253');

cart->count();

cart->clear();

cart->total();

cart->subtotal();
```

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Everything is a Cart

- ► Saved Carts
- ► Wishlists
- ► Collections

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Multiple Carts

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

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Development & Deployment   Forms

Cart Backends

- Session
- DBI

Inventory Check

```
MinQuantityField   min_quantity
MaxQuantityField   inventory:quantity
```

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Checkout
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Forms

Inventory Check Hook

```perl
hook 'before_cart_add' => sub {
    my ($cart, $item) = @_;
    my ($inventory);

    $inventory = query->select_field(table => 'products',
                                     field => 'inventory',
                                     where => {sku => $item->{sku}});

    if ($item->{quantity} > $inventory) {
        $item->{error} = 'Out of stock';
    }
};
```

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Cart Hooks

- before_cart_add
- after_cart_add

Cart Hooks

- ▶ before_cart_remove
- ▶ after_cart_remove

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Accounts and Access Control
Forms

Checkout

- ► Taxes
- ► Shipping
- ► Payment
- ► Invoice

Payment

- Business::OnlinePayment

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Tax Modules on CPAN

- Business::Tax::Canada
- Business::CA::GST
- Business::Tax::VAT
- Business::Tax::VAT::Validation

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Shipping

- ► Simple Shipping
- ► Crazy Shipping
- ► Shipping API

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API   Accounts and Access Control
Development & Deployment   Forms

Costs

```
$cart ->apply_cost(amount => 5);

$cart ->apply_cost(amount => 0.19, relative => 1);
```

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Checkout
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PDF Invoices

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

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Checkout
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Forms

Accounts

```perl
post '/login' => sub {
    if (account->login(username => params('body')->{username},
                       password => params('body')->{password})) {
        redirect '/customerservice';
    }
    else {
        redirect '/login';
    }
};
```

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Checkout
Accounts and Access Control
Forms

Accounts

```perl
get '/checkout' => sub {
    if (account->acl(check => 'submit_orders')) {
        return template 'checkout';
    }

    redirect '/access_denied';
};
```

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Account manager

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

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API Accounts and Access Control
Development & Deployment Forms

Account Provider

- DBI
- LDAP *
- Htpasswd *
- OpenID *
- OAuth *

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Access Control

- ► User
- ► Roles
- ► Permissions

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Forms

Forms

- Display
- Validation
- Storage

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Dancer
Contribution
The End

Routes

- ▶ Categories
- ▶ Products
- ▶ Cart
- ▶ Checkout
- ▶ Login/Logout
- ▶ Customer Service

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Default Route

```perl
get qr{/(.*)} => sub {
    my ($sku) = splat;
    my $product;

    # check for existing product
    if ($product = database->quick_select('products', {sku => $sku}))
        # display flypage
        template 'flypage', $product;
    }
    else {
        # display not found page
        status 'not_found';
        forward '404';
    }
};
```

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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

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Development & Deployment

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Slides: `http://www.linuxia.de/talks/perlcommerce/`
`perlcommerce-beamer.pdf`
Project: `https://vsc.state.gov/`