



the perl.org authentication system  
ask bjørn hansen

- Single sign-on server for web applications
- Mostly for perl.org, but open and free for all
- Replacing old ancient, hacky auth.perl.org system
- auth.perl.org still used for Subversion, CVS, RT and WebDAV accounts – but via Bitcard

# Where?

- <http://www.bitcard.org/>
- <http://cpanratings.perl.org/>
- <http://auth.perl.org/>



# Why?

- Never again write a user registration, email confirmation etc etc system
- We had our “namespace” of users from the auth.perl.org server
- Bitcard.org domain to not share cookies with “third-party” perl.org sites



# Login

- You send the user to

```
https://www.bitcard.org/login  
?bc_t=abc123  
&bc_r=http://www.example.com/  
&bc_ir=username
```

Get token at bitcard.org  
Return URL  
Required data fields

- User logs in and approves giving her username to your site.
- User gets redirected back to your site

```
http://www.example.com/  
?bc_fields=bc_id,bc_username  
&bc_id=cb77bb221a5cae1592489f51ee24006c...  
&bc_username=joedoe  
&bc_sig=1T3KAgbdbz05uty04c....
```



# Authen::Bitcard

- Send user to login

- ```
$bc = Authen::Bitcard->new(token => 'abc123');  
$q->redirect($bc->login_url(r => 'http://example.com/'));
```

- User comes back

- ```
my $user = $bc->verify($q)
```
- ```
{'email' => 'ask@developer.com',  
  'ts' => '1122022689',  
  'name' => 'Ask Bjørn Hansen',  
  'id' => 'cb77bb221a5cae1592489f51...',  
  'username' => 'ask'  
};
```

- (All unicode)



# TypeKey compatible!

- Also supports the TypeKey API!
- Slightly less features
- Support for Ruby, Python, PHP, etc etc
  
- Why didn't we use TypeKey?
- Namespace – needed to keep our old usernames from [auth.perl.org](http://auth.perl.org)



# The Future!

- Allow a user to have more than one username (can have multiple emails already)
  - (just need to write the code to add a username; the system supports it otherwise)
- AJAX login – When safe and possible
- OpenID server
  - Login to OpenID sites with your Bitcard account
- OpenID consumer
  - Login to Bitcard with your OpenID url



# Tak!

<http://www.bitcard.org/>

<http://cpanratings.perl.org/>

Authen::Bitcard on CPAN

ask@perl.org





# Bonus

- I now run the NTP Pool project  
<http://www.pool.ntp.org/>
- Help me out with a server if you are running one already!
- (Yes, the NTP Pool web site is using Bitcard)

