

OmniAuth:

From the Ground Up

Michael Bleigh / Red Dirt Ruby Conf 2011

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OmniAuth!

[**github.com/intridea/omniauth**](https://github.com/intridea/omniauth)

Not JUST Rails

It's Rack, Baby!

Login via
anything

Past.

Present.

Future.

Past!

The why of OmniAuth

Why are there
so many Ruby
authentication
solutions?

Assumptions.

I only need one User model.

Users will sign up and provide a password.

Only e-mail can validate users.

I only need one authentication method.

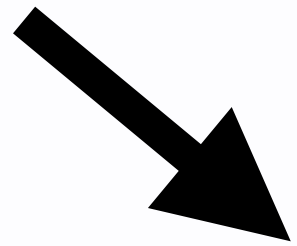
I'm only going to use Rails in my app.

I don't want to customize anything.

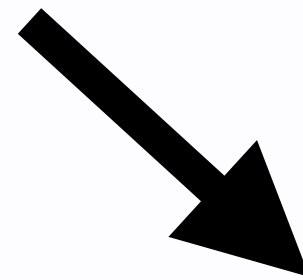
Magic in all the
wrong places.

Can we do
better?

I Need Auth



MAGIC!



User Info



OmniAuth

An expanding,
normalized system
for external
authentication.

It takes a while to make easy things.

March 30, 2010	First Commit
October 1, 2010	0.1.0 (public release)

0.1.0

10 providers,
3 contributors

0.2.3

36 providers,
52 contributors

**37signals Bit.ly CAS DailyMile
Doit.im Dopplr Evernote Facebook
Flickr Foursquare GitHub Goodreads
Google Google Apps Gowalla Hyves
Identi.ca Instagram Instapaper LDAP
LinkedIn Meetup Miso Mixi Netflix
OpenID Salesforce SmugMug
SoundCloud TeamBox TradeMe
Triplt Tumblr Twitter Vimeo
Vkontakte YouTube**

Present!

The how of OmniAuth



Let's kill the magic.

The Guts

- OmniAuth is just **middleware**
- Each provider is a **strategy**
- Each strategy has three phases:
 - Setup Phase
 - Request Phase
 - Callback Phase

The User Info Hash

```
{  
  "provider" => "friendface",  
  "uid" => "123456",  
  "user_info" => {  
    "nickname" => "mbleigh",  
    "name" => "Michael Bleigh",  
    "email" => "michael@intridea.com"  
  },  
  "auth" => {  
    "token" => "120942310491asfas-213-0123"  
  }  
}
```

The Bare Minimum

```
{  
  "provider" => "minimal",  
  "uid" => "123456",  
  "user_info" => {  
    "name" => "Michael Bleigh"  
  }  
}
```

Setup Phase

- Optional (:setup => true)
- Calls through to app to allow:
 - Dynamic provider credentials
 - Runtime strategy modification
 - Stuff I haven't thought of

Request Phase

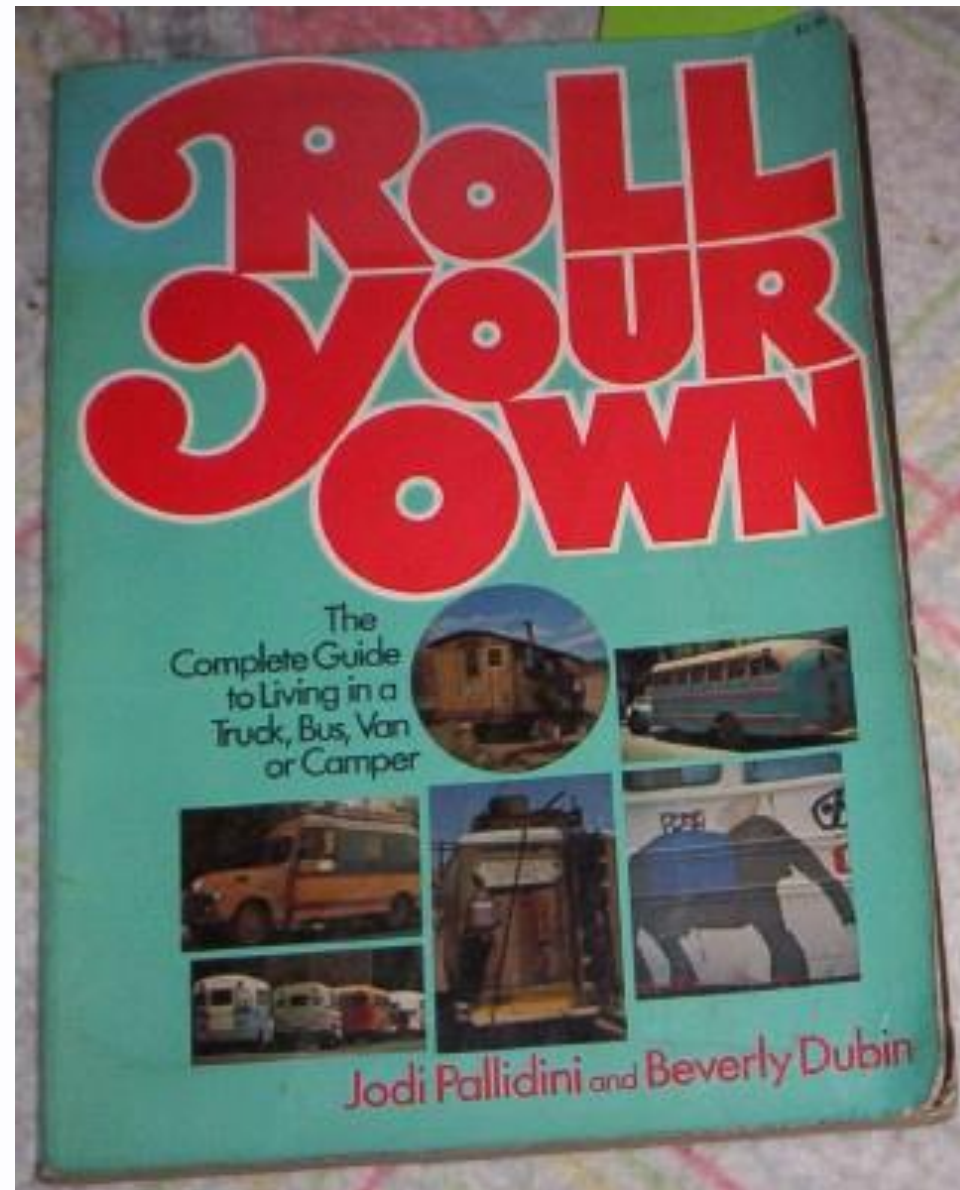
/auth/:provider

- Requests information of the user
 - For OAuth, redirects to provider
 - For OpenID, requests URL
 - For LDAP, requests user/pass

Callback Phase

/auth/:provider/callback

- Creates the **user info hash**
- For OAuth, grabs and uses access token to fetch user info
- For OpenID, parses the response
- For LDAP, retrieves directory info



Roll your own!

Hell yeah!
**Lightning
Livecoding!**

Future!

The what now of OmniAuth

OmniAuth for
internal auth?

oa-identity

- Treat internal auth like an external provider
- Same flow (request, callback)
- Customizable user info
- Mission: RailsConf!

Playing even
nicer with others.

Robuster
Rails integration.

oa-rails

- Authentication model generator
- Convenience hooks for building your stable of providers
- An (optional) fully automatic engine-based auth flow

Dev Friendliness

[your idea here]

Thanks!

<http://spkr8.com/t/7281>

@mbleigh @intridea

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