

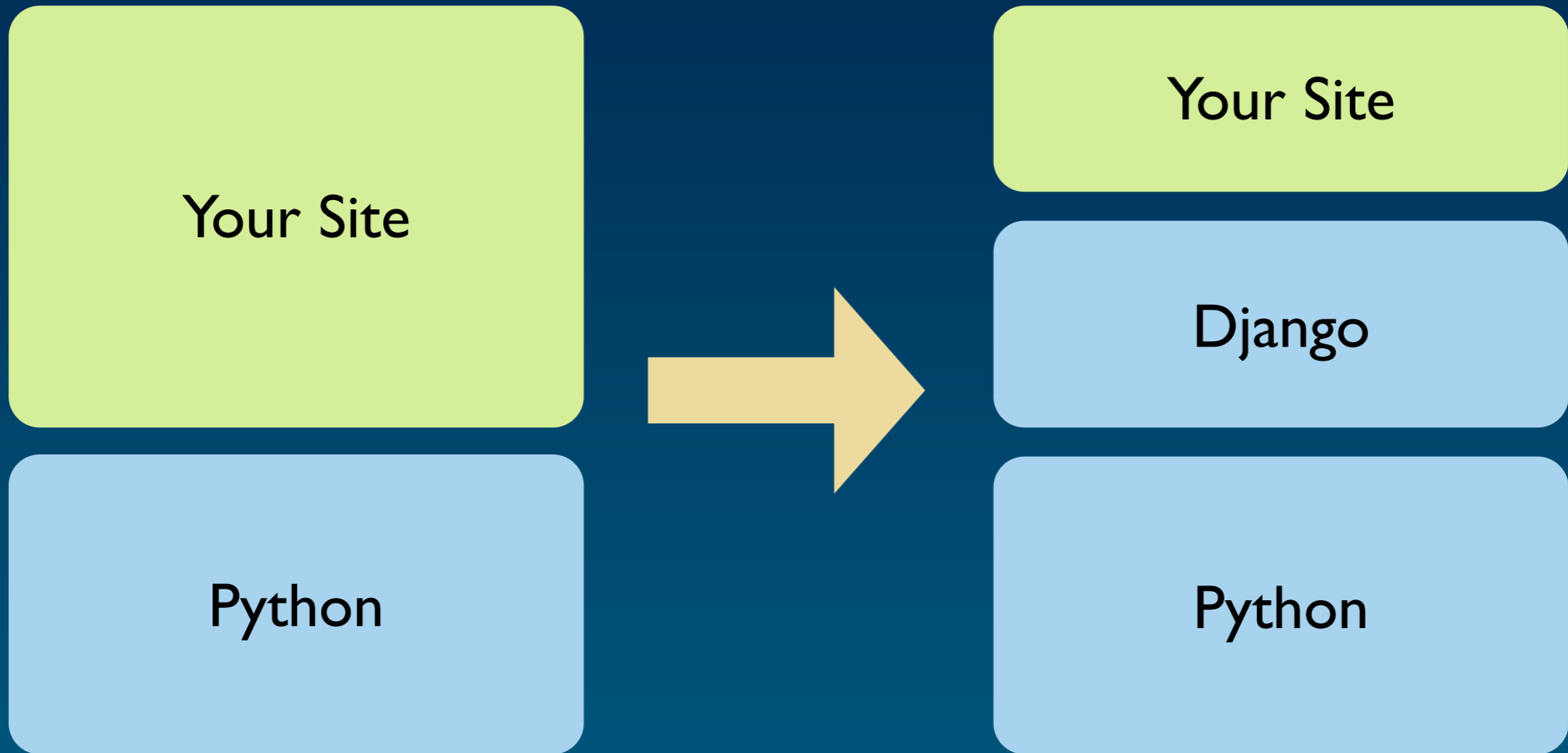
State of **pinax**

James Tauber

Euro DjangoCon 2009

pi in hex

```
def pi():
    N = 0
    n, d = 0, 1
    while True:
        xn = (120*N**2 + 151*N + 47)
        xd = (512*N**4 + 1024*N**3 +
             712*N**2 + 194*N + 15)
        n = ((16 * n * xd) + (xn * d)) % (d * xd)
        d *= xd
        yield 16 * n // d
        N += 1
```

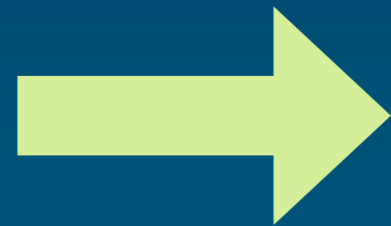


productivity through
compromise





idea



realisation

Quisition

- currently has:
 - signup, login, password management
 - announcements
 - deck searching and sort



- want to add:
 - user profiles
 - rating, tagging and commenting on decks
 - groups, friendships
 - membership levels
 - notifications
 - OpenID

Hot Club of France

reusable apps

app conventions

Potter Predictions



- send invitations
- connect to friends
- make comments on predictions
- tag prediction
- mass mailout to users

Tabula Rasa

reusable apps

app conventions

+

starting point for new projects

scaffolding for developing new apps

- django-friends
- django-notification
- django-mailer
- django-email-confirmation

*If you want to build a ship, don't drum up the men to
gather wood, divide the work and give orders.
Instead, teach them to yearn for the vast and endless sea.*

– Antoine de Saint-Exupéry







pinax


Let's Build a
Social Networking Site

All Bookmarks

These are bookmarks from everyone:

Sort by: [reddit-like hotness](#) or [total points](#) or [date added](#)

- 
[Itauber](#)
Sept. 6, 2008
1 point
Going Live: "This Week in Django" at DjangoCon
http://www.linuxpromagazine.com/online/features/going_live_this_week_in_django_at_djangocon
Saved once (including you)
[django](#) (1) [djangocon](#) (1) [twid](#) (1)
- 
[Itauber](#)
Sept. 4, 2008
2 points
Ten leading platforms for creating online communities
<http://blogs.zdnet.com/Hinchcliffe/?p=195>
Featuring Pinax!
Saved once (including you)
[pinax](#) (1)
- 
[edcrypt](#)
Sept. 3, 2008
7 points
Django 1.0 released!
<http://www.djangoproject.com/weblog/2008/sep/03/1/>
Saved once (save)
[django](#) (1) [release](#) (1)
- 
[poncho](#)
Sept. 3, 2008
1 point
HUGE
<http://www.hugeinc.com/>
Saved once (save)
[asdf](#) (1)
- 
[poncho](#)
Sept. 3, 2008
2 points
Mike Davidson - Enterprise CMSes vs. Blog CMSes
<http://www.mikeindustries.com/blog/archive/2008/06/enterprise-cmses-vs.blog-cmses>
Saved once (save)
[asdf](#) (1)
- 
[poncho](#)
Sept. 3, 2008
Strategies for Choosing an Enterprise Wiki | SocialComputingMagazine.com


[poncho](#)
Sept. 3, 2008
1 point
Strategies for Choosing an Enterprise Wiki | SocialComputingMagazine.com
Saved once (save)
[asdf](#) (1)



Welcome to Cloud27!

Cloud27 is an early-beta social networking site built on the open-source Pinax platform. It's a great place to:

- Connect with friends
- Collaborate via wikis
- Discuss via forums
- Manage project tasks
- Share photos
- Bookmarks and more!

Cloud27 is a demonstration of what Pinax can do out-of-the-box but is also a rapidly growing social network in its own right with many more features to come. Wondering what to do next now that you're signed up?



Tweets

Gumboots @hcatm what is ...
around10ster Working.
Gij testing the framework
ghostmid504 fm in the cloud...
avickokhi! yea check it out!

Tribes

Fans of Heroes
Surf Photography
Ergonomics and Design
Doctor Dessert
Asamen, Sawmen, Lumberjacks and ...

Members



Blogs

So is it Ready ...
Some site feedback
my first blogpost
Hello World
This could work...

Bookmarks

English learning/teaching site
Let me tell you ...
Authentic Boredom
Regulators cannot avert next ...
Not Everyone Should Own ...

$$\{ n \mid \text{available}(\text{"cloud}<n>.\text{com}"), n < 30 \}$$
$$=$$
$$\{ 14, 26, 27, 28 \}$$

collection of reusable apps

conventions for reusable apps

starting point for new projects

scaffolding for developing new apps

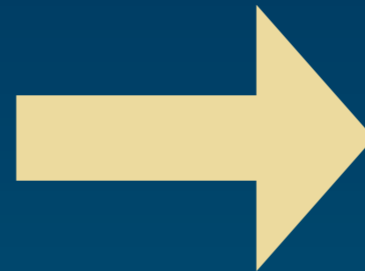
+

a platform for website development

Your Project

Django

Python



Your Project

Pinax

Django

Python

Modern Web Infrastructure

- API Metering
- Backups & Snapshots
- Counters
- Cloud/Cluster Management Tools
 - Instrumentation/Monitoring (Ganglia, Nagios)
 - Failover
 - Node addition/removal and hashing
 - Autoscaling for cloud resources
- CSRF/XSS Protection
- Data Retention/Archival
- Deployment Tools
 - Multiple Devs, Staging, Prod
 - Data model upgrades
 - Rolling deployments
 - Multiple versions (selective beta)
 - Bucket Testing
 - Rollbacks
 - CDN Management
- Distributed File Storage
- Distributed Log storage, analysis
- Graphing
- HTTP Caching
- Input/Output Filtering
- Memory Caching
- Non-relational Key Stores
- Rate Limiting
- Relational Storage
- Queues
- Rate Limiting
- Real-time messaging (XMPP)
- Search
 - Ranging
 - Geo
- Sharding
- Smart Caching
 - dirty-table management
- AuthX (AuthN + AuthZ)
 - Capabilities
 - Multifactor Auth
 - Rate Limiting
 - Signup
 - OpenID
 - OAuth
 - External import
- Groups
- Invites
- Lists
- Notifications
 - Spam filtering
 - Multi-protocol routing
 - Fine-grained controls/rules
- Presence
- Social Activity Log (Newsfeed)
 - Filtering
- Social Model
 - Connectivity (uni/bidi)
 - Privacy (private, reciprocal, public)
 - Views
 - Traversal
- Social Object
 - Privacy, Social Scoping
 - Voting
 - Sharing
 - Publishing
 - Comments
 - Favoriting
 - Social editing
 - Permissions
- Tagging
 - Combinations
 - Relatedness
- User
 - Achievements/Awards
 - Activity Log
 - External User ID Mapping
 - Permissions (see AuthX)
 - Deletion/Archival
 - Flagging
 - Direct Messaging
 - User Cards

What seems the biggest shame to me is that everyone is currently rebuilding this stuff over and over again and rationalizing it as some sort of secret sauce competitive advantage when it's really infrastructure - stuff that really should be standardized so you can actually get around to doing the new and interesting stuff.

— Leonard Lin

<http://randomfoo.net/2009/01/28/infrastructure-for-modern-web-sites>

Your Project

Pinax

Django



the trade off:

how much to fix?

how much to make configurable?

how much to leave

completely to site developer?

Pinax IS Django

Pinax IS NOT Django

“Pinax is
opinionated so
Django doesn't
have to be”

“PINAX:
Even more
opinionated than
Django”

Features in 0.5

- openid support
- email verification
- password management
- site announcements
- a notification framework
- user-to-user messaging
- friend invitation
(both internal and external to the site)
- a basic twitter clone
- oembed support
- gravatar support
- interest groups
(called tribes)
- projects
with basic task and issue management
- threaded discussions
- wikis
with multiple markup support
- blogging
- bookmarks
- tagging
- contact import
(from vCard, Google or Yahoo)
- photo management

0.5 Structure

- external apps
- local apps
- libraries
- two sample projects
- path hacking

0.5 External apps

- all on Google Code Project Hosting
- use of `svn:externals`
- half were written independently of Pinax
- avoiding “rhythm section apps”
- do one thing

0.5 Libraries

- batteries included
- except for P/L
- makes for a huge checkout

Sites Using Pinax

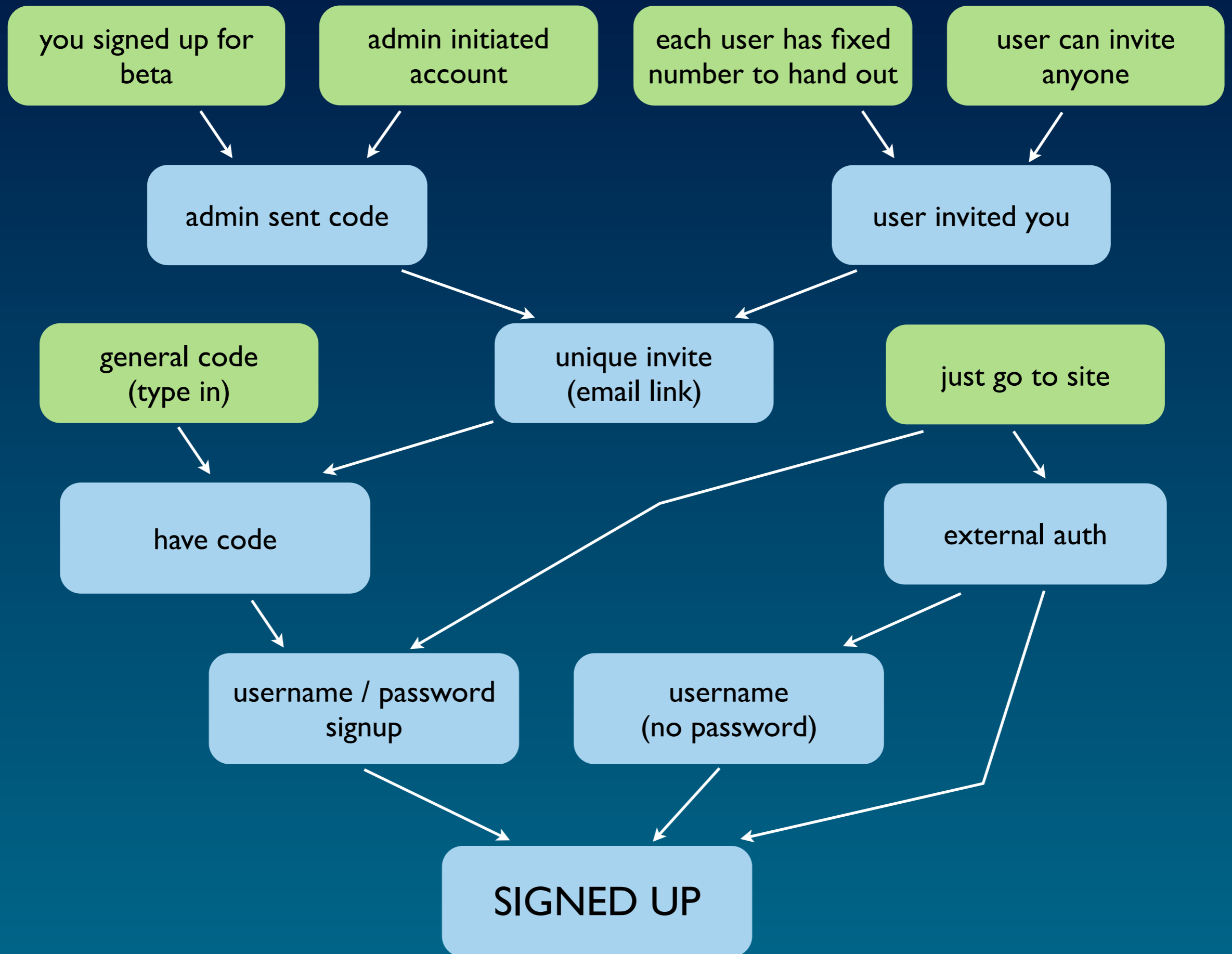
- cloud27.com
- foodsel.com
- trailmapping.com
- tuttivisti.com
- girlgamer.com
- coathangr.com
- replyforall.com
- corpu.com
- we20.org
- earth.burningman.com
- trackmytrophies.com
- carposse.com
- sequencemed.com
- badlist.co.uk
- goodlist.co.uk
- www.pinaxcn.com
- www.dooplan.com
- faircompanies.com
- drinktale.com
- aletale.com
- Eldarion intranet
- NASA SMD Spacebook
- gameocracy.org
- mftransparency.org
- lifelist.net

0.7 Release

- translation removal
- locations
- page-cms
- account and group improvements
- new task app
- uni-form and Section 508
- better shared templates and media
- more sample projects
(and complete renamed social)
- virtualenv and pip
- pinax is now a package

New Account App

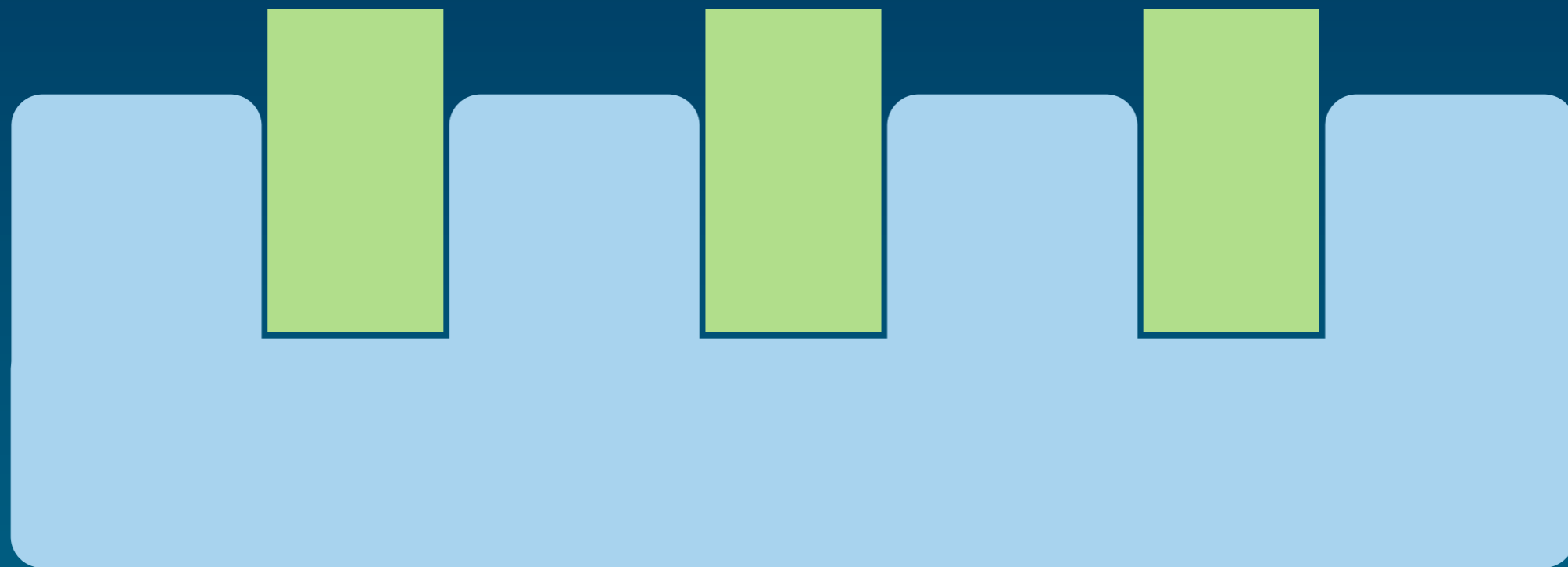
- turn OpenID on/off
- turn sign up on/off
- waiting list
- invite only / private beta
- token-based password reset
- resend signup email confirmation
- use email for login



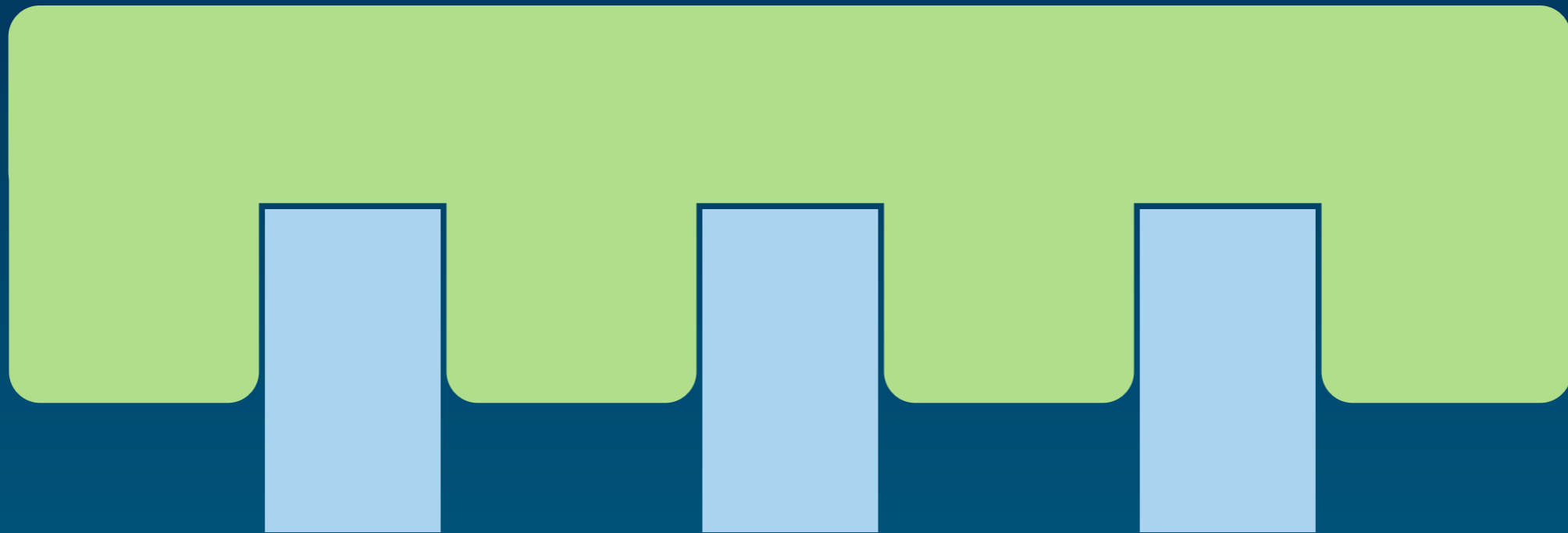
New Group App

- Don't Repeat Yourself!
- endo vs exo
- group apps versus content apps
- membership app

Endo Approach (framework-like)



Exo Approach (library approach)



Shared Templates and Media

- look up:
 - project
 - pinax  new level (multiple themes)
 - app
- media build command
- ship with famfamfam silk icons

Problems with 0.5 structure

- it largely relies on external dependencies being in svn and this is increasingly not the case (although it was when Pinax started)
- it makes it difficult for Pinax itself to move away from svn
- there is no management of dependencies between external dependencies, nor between particular projects in Pinax and their individual dependencies

virtualenv and pip

- encourage external apps to be distutils-compliant
- pip for package install (at least during development)
- optional “batteries included” release
- virtualenv to provide isolation, remove need for path hacking and just because it kicks ass

release install

(download tarball, extract and cd)

```
$ python scripts/pinax-boot.py ../pinax-env
```

```
$ source ../pinax-env/bin/activate
```

```
(pinax-env)$ cd ..
```

```
(pinax-env)$ pinax-admin clone_project  
                    social_project mysite
```

```
(pinax-env)$ cd mysite/
```

```
(pinax-env)$ python manage.py syncdb
```

```
(pinax-env)$ python manage.py runserver
```

development install

(download pinax-boot.py from github)

```
$ python pinax-boot.py --development ./pinax-env  
$ source ./pinax-env/bin/activate  
(pinax-env)$
```

```
(pinax-env)$ cd ./pinax-env/  
(pinax-env)$ pip install --requirement  
                src/pinax/requirements/external_apps.txt
```

Move to github

<http://github.com/pinax/pinax/>

Python

is the #3 most popular language on GitHub.






Most Watched This Week

-  pinax / **pinax**
-  myles / **django-s5**
-  jacobian / **django-shorturls**
-  inky / **see**
-  simonw / **djangopeople.net**

Most Watched This Month

-  pinax / **pinax**
-  myles / **django-s5**
-  jacobian / **django-shorturls**
-  inky / **see**
-  simonw / **djangopeople.net**

Most Watched Overall

-  robhudson / **django-debug-toolbar**
-  pinax / **pinax**
-  karmazilla / **fabric**
-  darwin / **firepython**
-  breily / **juno**

Most Forked This Week

-  pinax / **pinax**
-  myles / **django-s5**
-  jacobian / **django-shorturls**
-  inky / **see**
-  simonw / **djangopeople.net**

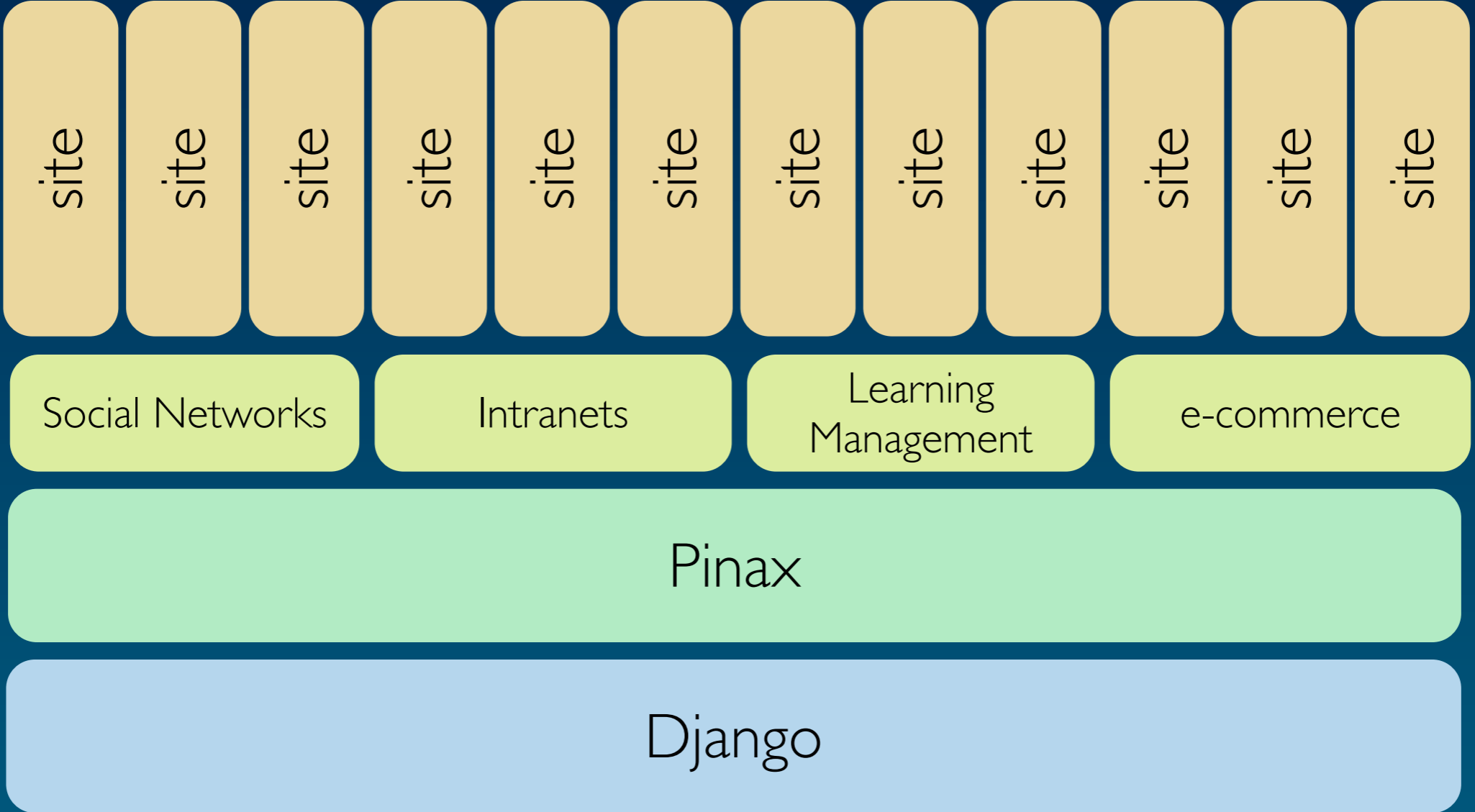
Most Forked This Month

-  pinax / **pinax**
-  myles / **django-s5**
-  jacobian / **django-shorturls**
-  inky / **see**
-  simonw / **djangopeople.net**

Most Forked Overall

-  robhudson / **django-debug-toolbar**
-  drt / **amsn2**
-  django / **django**
-  djmitche / **buildbot**
-  sunlightlabs / **fiftystates**

Pinax is NOT just for
social networks



site

site

site

site

site

site

site

site

site

site

site

site

Social Networks

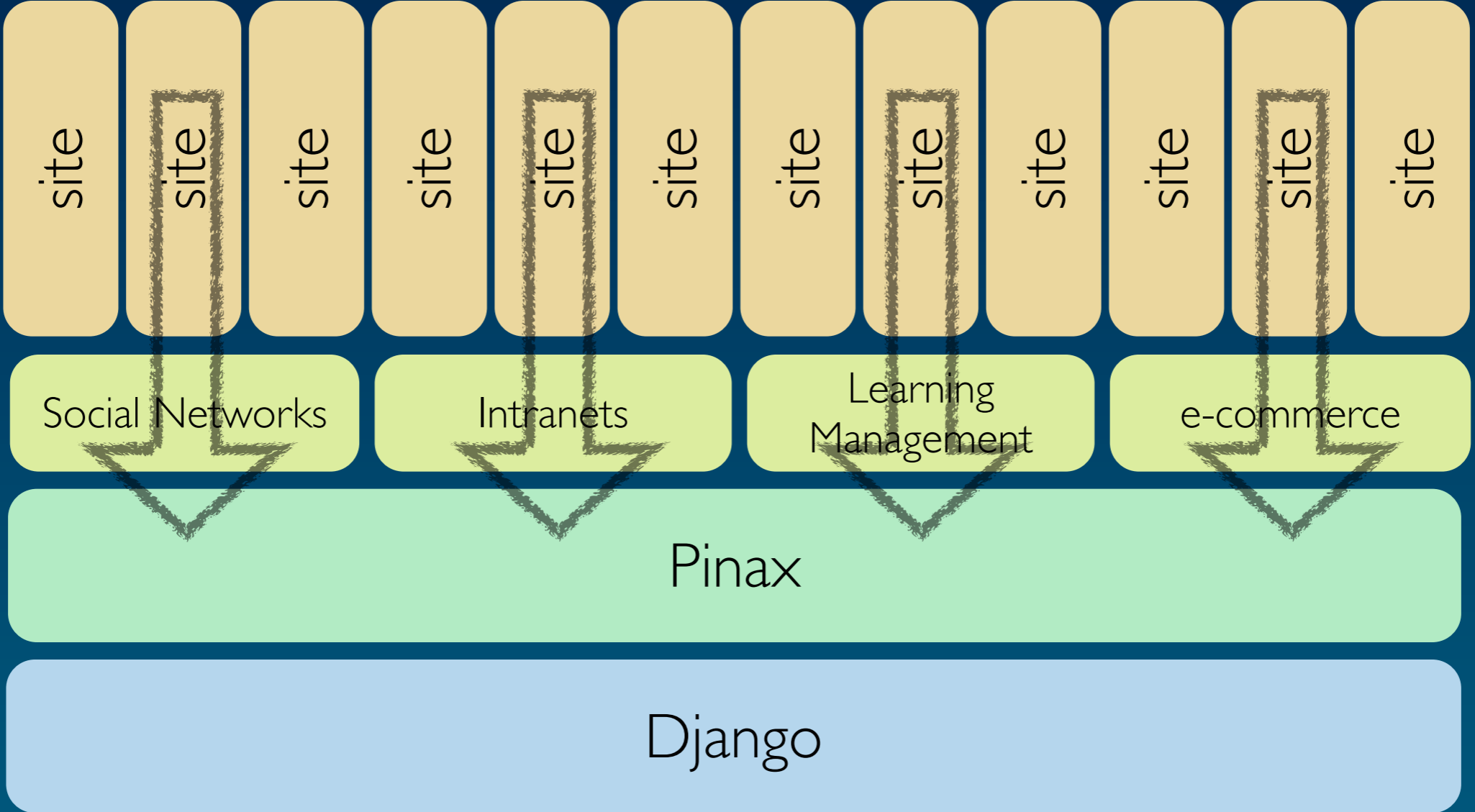
Intranets

Learning
Management

e-commerce

Pinax

Django



Editions

- social networking
- intranet
- learning management
- e-commerce
- clubs and associations
- conference management
- software project management

Tasks

Filter out: [new](#) or [in progress](#) or [discussion needed](#) or [blocked](#) or [resolved](#) or [closed](#) or [accepted](#) or [fix needs review](#)

Group by: [last modified](#) or [state](#) or [assignee](#) or [tag](#)

expand all - collapse all

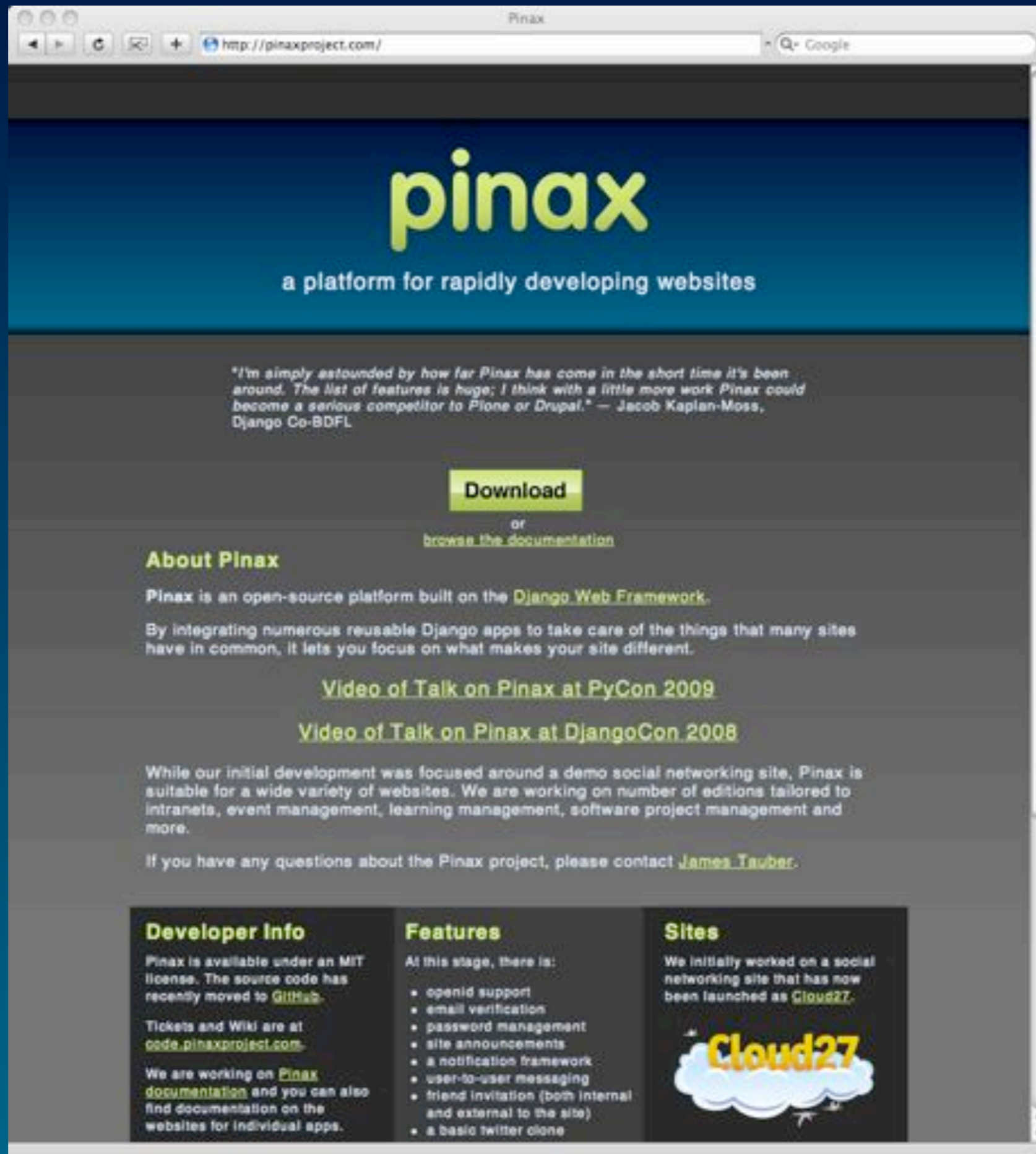
ID	Summary	Last Modified	Assignee	Tags	Status
+ new (12)					
200	!-names are not supported	1d, 23hr ago	unassigned	openid	focus
202	Please take our ratings application	19hr, 44min ago	unassigned	ella ratings	
186	Can't reuse a slug from a deleted project	1wk, 2d ago	unassigned	0.7b3	
198	respect "next" parameter during a language change in Django way	4d, 14hr ago	unassigned	(if) set language	
188	Move out textual references "Pinax" from core and base applications to the settings.py file	1wk ago	jzdez	cleanup translation user interface	
189	Introduce the Russian translation in pinax-0.7	1wk ago	jzdez	russian translation	
190	Buildout is incomplete	1wk ago	unassigned	buildout pinax	
197	pinax-boot is overwriting patched virtualenv on Jaunty	14hr, 33min ago	unassigned	0.7b2 jaunty python2.6 virtualenv	
194	Installation of Pinax 0.7 Beta 2 on Windows fails at setuptools installation	6d, 14hr ago	unassigned	windows	
182	create starter content project out of pinaxproject.com	1wk, 3d ago	jtauber	0.7b3 new project ideas	
195	Error: No module named roman	6d, 11hr ago	unassigned	0.7b2	
183	private_beta_project has 404 loading media	1wk, 2d ago	unassigned	0.7 media private_beta_project	
+ resolved (32)					
+ closed (63)					
+ in progress (5)					
+ discussion needed (11)					
+ accepted (79)					
+ fix needs review (1)					

expand all - collapse all



Pastebin

This pastebin provides a place for Eldarion employees to paste code and share among other employees.



pinax

a platform for rapidly developing websites

"I'm simply astounded by how far Pinax has come in the short time it's been around. The list of features is huge; I think with a little more work Pinax could become a serious competitor to Plone or Drupal." — Jacob Kaplan-Moss, Django Co-BDFL

[Download](#)

or
[browse the documentation](#)

About Pinax

Pinax is an open-source platform built on the [Django Web Framework](#).

By integrating numerous reusable Django apps to take care of the things that many sites have in common, it lets you focus on what makes your site different.

[Video of Talk on Pinax at PyCon 2009](#)

[Video of Talk on Pinax at DjangoCon 2008](#)

While our initial development was focused around a demo social networking site, Pinax is suitable for a wide variety of websites. We are working on number of editions tailored to intranets, event management, learning management, software project management and more.

If you have any questions about the Pinax project, please contact [James Tauber](#).

Developer Info

Pinax is available under an MIT license. The source code has recently moved to [Github](#).

Tickets and Wiki are at [code.pinaxproject.com](#).

We are working on [Pinax documentation](#) and you can also find documentation on the websites for individual apps.

Features

At this stage, there is:

- openid support
- email verification
- password management
- site announcements
- a notification framework
- user-to-user messaging
- friend invitation (both internal and external to the site)
- a basic twitter clone

Sites

We initially worked on a social networking site that has now been launched as [Cloud27](#).



Roadmap

- 0.7b3 in next week or two
 - finish off group work
 - rethink settings
 - get testing in place (less ad hoc)
- 0.7 final a couple of weeks after that
- 0.8 “translation release”
 - based off 0.7 and in parallel to 0.9
- 0.9 “big feature release”
 - rethink friends: split into friends, contacts and invitations
 - rethink profiles
 - workflow
 - open stack
 - calendar / events
 - new apps

How to Contribute

- get Pinax installed
- join the pinax-core-dev mailing list
- hang out in #pinax-dev on freenode
- familiarize yourself with the wiki and task tracking system on code.pinaxproject.com
- (if you will be contributing code, documentation or media) familiarize yourself with git and GitHub

Things to Do

- review tickets
- review documentation
- write new documentation
- write translations
- write tests
- write a tutorial on your blog
- make a screen cast
- debug existing code
- enhance existing apps (best done in coordination with app developer)
- develop new django apps to include in Pinax
- develop new themes (templates / css / media)
- develop new sample/starter projects (either using existing apps or as scaffolding for a new django app)

Join Us During Sprint

(even if just in #pinax-sprint on freenode)

pinax

<http://pinaxproject.com/>