scampi 2000
the scalable multipurpose interocitor
the infrastructure pt. 1

- Python 2.5-2.7
- Django 0.96 alpha - 1.3
- MySQL Community Server 5 / MSSQL 2008 R2
- OpenSuse 11.1, 11.2, Windows Server 2008 R2
Portability

- lighttpd + linux / mysql
  - fastCGI services (init.d)
- apache + linux / mysql
  - mod_wsgi daemon
- apache + windows / mssql
  - mod_wsgi embedded
the magic of python

- live debugging/interpreter
- performance
- db connectivity (informixDB)
- true OO design with namespaces!
- django
free as in time

- why Django?
  - Full HTTP Stack
  - MVC
    - kindof sortof
  - Admin For Free
- Admin For Free
- Admin For Free
why scampi?

stale publishing model

• Local Content
  ✴ upload media
  ✴ create article
  ✴ attach article to attachable, designating placement
  ✴ published on site
• Foreign Content
  ✴ client JavaScript (slow!)

fresh publishing model

• Local Content
  ✴ upload media
  ✴ create article
  ✴ attach article to story, with additional media and categorize + tag it.
  ✴ approved for publishing
  ✴ appears anywhere it is relevant
• Foreign Content
  ✴ imported into our database, properly categorized + tagged to appear alongside local content
Renaissance / Conduit

- integrated media management
- images, audio files, videos, documents, flash, etc.
- slide shows, audio-excerpts, video collections
- abstracts stories from pages
- Pickers populate boxes with any dynamic content from any source automagically
- built-in compatibility for devices without flash

* iPad!
NewsEngine/Communism

- Articles
  - Multilingual, Versioned and media-rich
- Stories
  - Articles plus Slideshows, Video Playlists and other media
  - Properly Categorized
- review and publish process
- Theme-independent layout and page creation from admin portal
- Named Boxes for Pickers to load content
- to each category according to need, to each category according to use
communism
conduit & pickers

- Named Boxes contain pickers
- Static Content
- Dynamic Content
  - python dictionary as registry (intraprocess)
  - loads django models & on the fly **kwarg filtering
    - any model, any site, any combination of filters
pickers

Publish A
- start: 2011-05-01
- story__categories:23,42
- category: 6
- published: True

Publish B
- start: 2011-05-01
- story__categories:2,13,45
- category: 6
- published: True

Publish C
- start: 2012-05-01
- story__categories:23,45
- category: 5
- published: True

Picker
- start:('coerce-datetime','lte','-today')
- story__categories__id__in:[45L]
- category__id__exact: 6
- published__exact: True

Picker Template
{% for publish in picker.picked %}
{{ publish.story.article.headline }}
{{ publish.story.article.sub_headline }}
{{ publish.story.article.body }}
{% endfor %}
newsengine

- Articles, Headlines, Subheadlines
  - literally every cms ever?
- Multilingual support built in
  - works from user-agent language preference
- Categories, Tags and Publish Words
  - One article, many stories, many published locations
next generation

- old style function views & Page Class

```python
def index(request, *arg, **kwargs):
    page = Page()
    page.template = "index.html"
    return page.render()
```

- Class based views

```python
class Index(View, Page, Mixin1, Mixin2):
    template = "index.html"
    def populate_context(self):
        return {"key": val}
```