

Pykonik Meeting
2015.03.04

Composing WSGI apps and spellchecking it all

Rodolfo Carvalho

Composable abstractions



WSGI

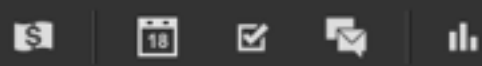


UNIX pipes



Falcon





Contacts / Adolf Vandervort [Edit](#)

Current Customer Status

Non Prospect Status

Pheodora Papke owner

+1 773-770-8599 work

+1 773-770-8599

mobile

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email

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United States address

NEWSLETTER FEBRUARY

tags

Manufacturing industry

123-123-123-2 Tax Number

To add an outside email to this contact,
forward or BCC to:

d557696e@email.getbase.com



[Add a Note](#)

[Send an Email](#)

[Send a Text Message](#)

To: **Adolf Vandervort**

Cc | Bcc

Subject: Follow-up on Proposal

Hi **First name**,

My name is Ryan and I work with **Industry**, agents to help them become productive sales people. I was wondering if you have a few minutes for a call later this week?

Talk soon,

Ryan Thomas

B / **U**    


[Send Email](#)



Template: Proposal Follow-Up Email



Displaying **all activity**



 You  Adolf Vandervort
Follow-up on Proposal

not viewed 15/09/2014 15:28



 Ryan Thomas left a note

14/09/2014 7:42

They are looking for a fast setup. Looking to get up and running within the week.

 dashawn_donnelly@example.net  Adolf Vandervort
Follow up - great to talk to you last week

sent outside of Base  12/09/2014 8:28

 donnie.leannon@example.net  Adolf Vandervort
How's the Progress?

sent outside of Base  25/07/2014 21:53

 **Adolf Vandervort** added by Ryan Thomas

14/09/2014 7:27

CUSTOMER DEAL REVENUE

\$0

0 WON DEALS

\$0

0 POTENTIAL DEALS

CURRENT DEALS



No Deals

COLLABORATORS



No Collaborators

[Become a Collaborator](#)

APPOINTMENTS



No Appointments

TASKS



☐ **Schedule Follow Up Meeting**
Tomorrow 0:00 - Ryan Thomas

DOCUMENTS



No Documents

django

REST
framework



but DRF is just
WSGI...

WSGI, PEP-3333

```
def app(environ, start_response):  
    """A stupidly simple WSGI application"""  
  
    status = '200 OK'  
    response_headers = [('Content-type', 'text/plain')]  
    start_response(status, response_headers)  
  
    return ['Hello world!\n']
```

WSGI

- Application / Framework
- Server / Gateway
- Middleware

Middleware

- Route request to different applications based on URL, rewriting environ accordingly.
- Run multiple applications or frameworks side-by-side in the same process
- Load balancing and remote processing
- Content postprocessing

Composing WSGI apps

Django + Falcon +
anything you want

```
from django_demo.wsgi import application as django_app
from falcon_demo.hello import app as falcon_app

# environ = {
#     'SCRIPT_NAME': '',
#     'PATH_INFO': '/falcon/api/deals/666',
#     # ...
# }

def app(environ, start_response):
    script_name = environ.setdefault('SCRIPT_NAME', '')
    path_info = environ.setdefault('PATH_INFO', '')

    if path_info.startswith('/falcon'):
        environ['SCRIPT_NAME'] += path_info[:7]
        environ['PATH_INFO'] = path_info[7:]

        return falcon_app(environ, start_response)

    return django_app(environ, start_response)
```

multiple frameworks in
the same process :)

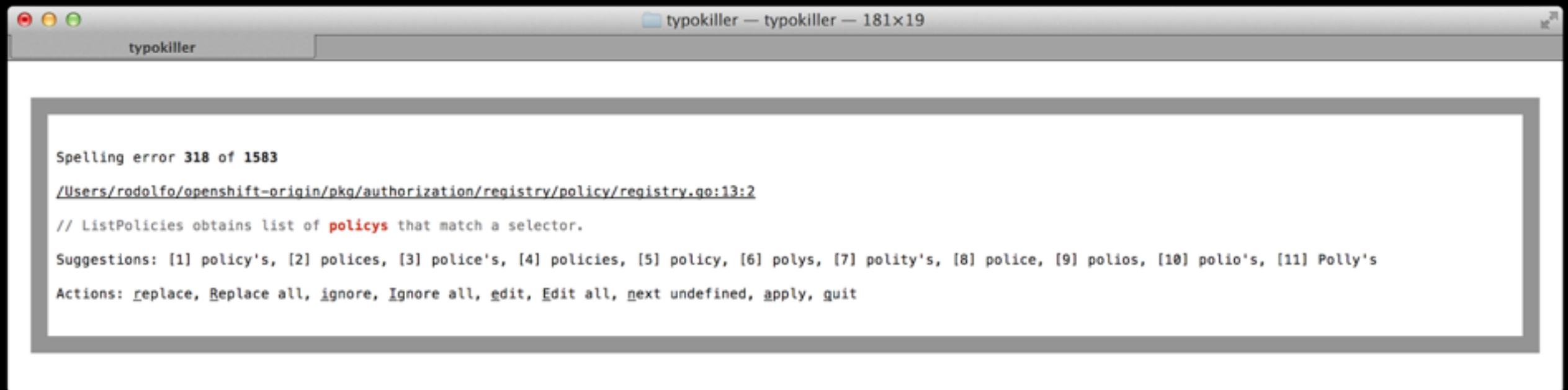
The Django logo, featuring the word "django" in a white, lowercase, sans-serif font, set against a dark green rounded rectangular background.

django

Sprint
2014

Rodolfo Sprint 2015

typokiller



UNIX pipes

```
$ ls -la | grep "^\. " | sort -r | less
```

read | check | fix | apply

```
# normal usage:
```

```
$ typokiller read /FROM/PATH |  
  ./spellcheck.py |  
  typokiller fix
```

```
# inspect spellcheck results manually:
```

```
$ typokiller read /FROM/PATH |  
  ./spellcheck.py |  
  ./pprint_json.py |  
  less
```

```
# limit number of packages:
```

```
$ typokiller read /FROM/PATH |  
  head -n 20 |  
  ./spellcheck.py |  
  ./pprint_json.py |  
  less
```

aim for composability

- github.com/rhcarvalho/django-plus-falcon-pypy
- github.com/rhcarvalho/typokiller
- Ask me questions!