

Pyramid

Treasures In Store?

Who am I?

Who am I and Why am I Writing Python?

Jack Desert

Developer for Hire

Lots of Rails Experience

Aspires to be Data Scientist

Framework Choices

- Flask
- Pylons
- Pyramid (a simpler Pylons)
- Zope
- Look Ma, No Framework!

How Did I Choose Pyramid

- Which ORM do I want to use?
- Which frameworks easily support that ORM?
- What (Python) frameworks have I used before?
- What are other people using?

Basic Web App

```
from wsgiref.simple_server import make_server
from pyramid.config import Configurator
from pyramid.response import Response

def hello_world(request):
    name = request.matchdict['name']
    return Response(f'Hello {name}')

if __name__ == '__main__':
    with Configurator() as config:
        config.add_route('hello', '/{name}')
        config.add_view(hello_world, route_name='hello')
        app = config.make_wsgi_app()
        server = make_server('0.0.0.0', 8080, app)
        server.serve_forever()
```

The Magic is in the CookieCutter

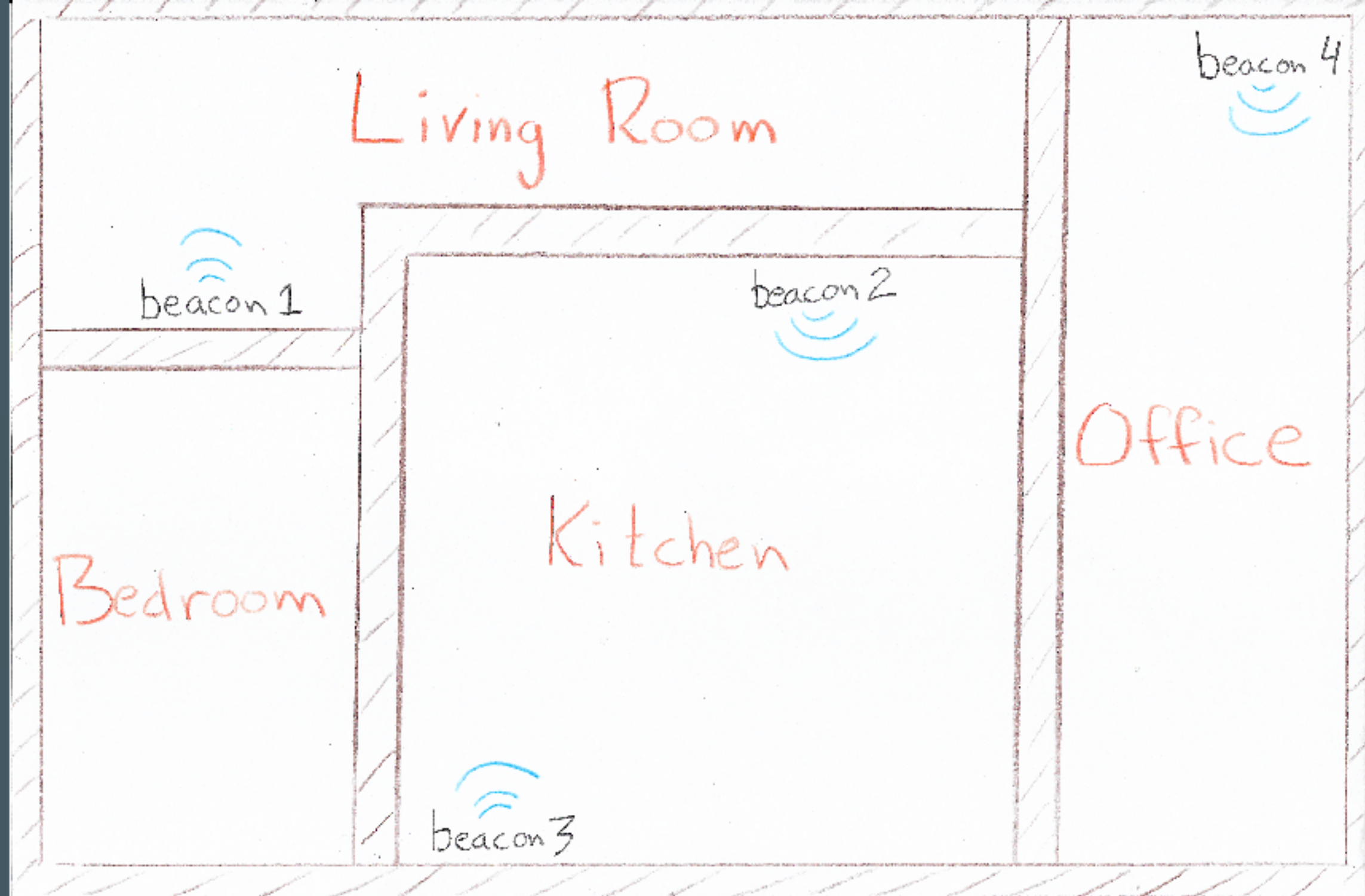
- Bootstraps your ORM and template engine of choice
- Sets up a common directory structure

CookieCutter 101

1. Choose a cookiecutter from <https://cookiecutter.readthedocs.io/en/latest/readme.html#python-pyramid>
2. Find the invocation in the README
3. Follow steps printed after invocation
4. `env/bin/pserve` and `/env/bin/pshell`

Stethoscope

A location predictor
Uses bluetooth



API

bip-stethoscope.elitecare.com

What I Expect from a Framework (1)

Serve static assets in development

```
config.add_static_view(name='static',  
                       path='/var/www/static')
```

What I Expect from a Framework (2)

Reload code in development

```
env/bin/pserve development --reload
```

What I Expect from a Framework (3)

Plays nicely with nginx

(Had no problems with waitress + nginx via tcp)

What I Expect from a Framework (4)

- 4. Popularity
- 5. No Bugs
- 6. Template integration
- 7. Consistency
- 8. REPL-based development
- 9. Console
- 10. Documentation

Using it in Production

1. Logger?
2. Training Keras ~ 500MB resident size
3. uWSGI is a rabbit hole!! (waitress + systemd is much easier)

Rabbit Hole!! 🕒 🐰 🕒

Serving via uWSGI

(Built-in `waitress` server + systemd is much easier)

Will I use Pyramid in the Future?

Yes!

1. arscca.jackdesert.com
2. dan.jackdesert.com
3. drive.jackdesert.com
4. shop.jackdesert.com
5. website-monitor.jackdesert.com (coming soon)

Preparation

- Put podium near stage right looking out
- mon4
- Press home button twice on back of white remote to get lamp warning to go away
- If screen does not respond, for example after running on laptop monitor for a long time, unplug and replug HDMI cord into laptop
- If screen does not respond, for example after running on laptop monitor for a long time, unplug and replug HDMI cord into lapto
- Bring power adapter
- Bring extension cord for power