



FULL STACK WEB DEVELOPMENT

---

IN PYTHON

## ABOUT ME

- ▶ FMFI UK
- ▶ Python enthusiast
- ▶ Singer in stoner rock band MOFOKILLER
- ▶ Test Developer at KISTLER

# KISTLER

**measure. analyze. innovate.**

DEVELOPMENT  
ENVIRONMENT

TEST  
ENVIRONMENT

PRODUCTION  
ENVIRONMENT

Continuous Integration  
&  
Continuous Deployment

Continuous  
Delivery

DEVELOPMENT  
ENVIRONMENT

TEST  
ENVIRONMENT

PRODUCTION  
ENVIRONMENT

Continuous Integration  
&  
Continuous Deployment

Continuous  
Delivery

# DEVELOPMENT ENVIRONMENT

- ▶ anti-patterns
- ▶ virtualenv & virtualenvwrapper
- ▶ vagrant
- ▶ fabric

DEVELOPMENT  
ENVIRONMENT

TEST  
ENVIRONMENT

PRODUCTION  
ENVIRONMENT

Continuous Integration  
&  
Continuous Deployment

Continuous  
Delivery

# CONTINUOUS INTEGRATION

- ▶ trigger feedback process
- ▶ building & packaging
- ▶ binary repository
- ▶ deployment to test environment



**UNTESTED CODE IS A BROKEN  
CODE**

Unknown

# TEST ENVIRONMENT

- ▶ unit tests
- ▶ code coverage & static analysis
- ▶ integration tests
- ▶ system tests
- ▶ acceptance tests

DEVELOPMENT  
ENVIRONMENT

TEST  
ENVIRONMENT

PRODUCTION  
ENVIRONMENT

Continuous Integration  
&  
Continuous Deployment

Continuous  
Delivery

continuous deployment  
to production environment



# PRODUCTION ENVIRONMENT

- ▶ environment differences
- ▶ continuous delivery
- ▶ zero downtime releases
- ▶ rollback strategy
- ▶ monitoring



# EXAMPLE APPLICATION

**[github.com/mirobeka/notebook](https://github.com/mirobeka/notebook)**



# THANK YOU

---

PRESENTATION & RESOURCES

@ SJUDEU.SK