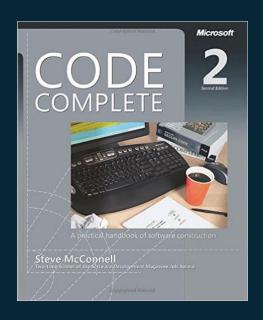
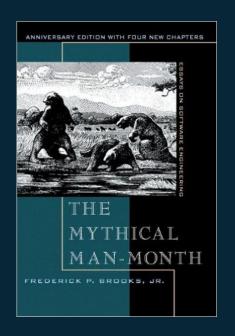
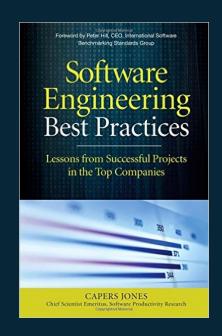
Data Science is Software

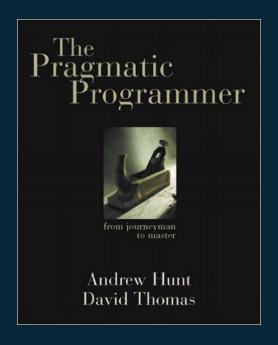
"It's easy to enhance a FORTRAN compiler to compile COBOL as well; it's just a SMOP."

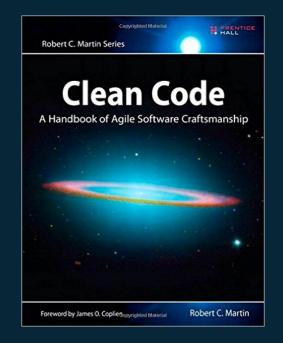
SMOP entry in The Jargon File
 (a comprehensive
 compendium of
 hacker slang)

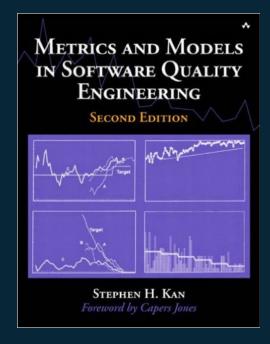


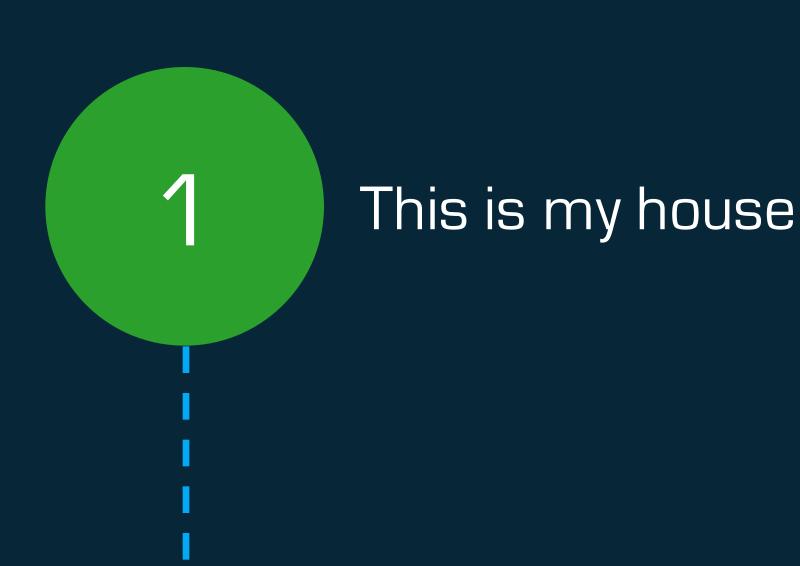


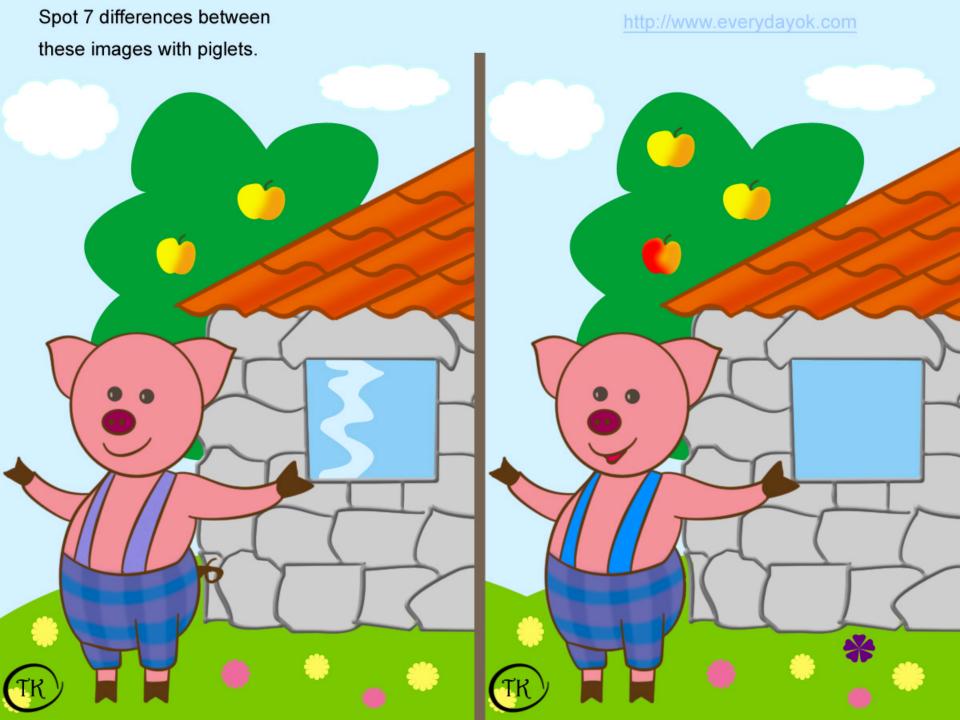












REALS, REWITH FLAMELES

PRODUCT OF U.S.A.

MEALS

THIS CASE CONTAINS TWE

EACH MEAL IS SEALED IN AN ARTIGHT HAVE

- . ENTRÉE SIDE DISH BREAD SPREAD
- · CONDIMENTS · INSTANT COFFEE · SYC
- SCIONE NO DE RELOWITZE POR LEGAR WHILF LIFE
 NOS SCITTORS POR DATE OF MARKETIC TURE









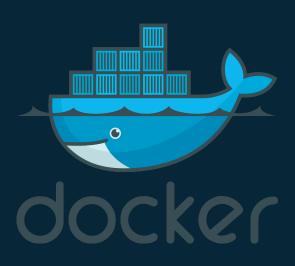
WATERMARK

VIRTUALENV

VIRTUALENVWRAPPER

PIP REQUIREMENTS.TXT

Other options (for more complex environments)









the life-changing magic of tidying up

the Japanese art of decluttering and organizing

marie kondo

```
Inspection_count_min.jpeg

    README.Rmd

 README.html
 dd_dictionary.csv
   mallet.rar
 — scripts\ and\ data
   — AllViolations.csv
   — PhaseIISubmissionFormat.csv
   ── build_rev_tm.R
   — docsAsTopicsProbs_noStopwords.txt
   feature_eng.R
   — features_test_phase2.csv
   features_train_phase2.csv
   learning_final.R
   megative-words.txt
   positive-words.txt

─ rand_neg.txt

   restaurant_ids_to_yelp_ids.csv
   ─ rev_tm.txt
   review_sentiscored.csv

— run.R

   -- sentiment_script.R
   sub_2_PhaseII_h20.csv

─ yelp.stops

   yelp_academic_dataset_business.json
varimp_qbm1.jpeq
varimp_abm2.ipea
varimp_sev.jpeg
```

```
Here AllViolations.csv
Here BusinessClass.py
Here GenLearningData.py
Here GenTestingData.py
Here InspectionClass.py
Here LearnTest.py
Here PhaseIISubmissionFormat.csv
Here PhaseIISubmissionFormat_final.csv
Here PhaseIISubmissionFormat_test.csv
Here ReviewClass.py
Here ReviewClass.py
Here restaurant_ids_to_yelp_ids.csv
Here yelp_boston_academic_dataset
Here yelp_duplicate_ids.csv
```

```
── Step\ 1\ -\ install\ necessary\ software\ and\ packages.txt
```

— Step\ 2\ -\ one-off\ step\ to\ create\ postgresql\ server\ instance\ and\ a\ database.txt

— Step\ 3\ -\ one-off\ step\ to\ create\ tables\ and\ views\ in\ postgresql.py

Ruby on Rails Application

```
README.nitrous.md
─ Rakefile
— app

─ assets

   - controllers

→ helpers

→ mailers

─ models

─ views

   ── bundle

─ rails

   └─ rake
  config

→ application.rb

   ─ boot.rb

    ── cucumber.yml

    ── database.yml.example

     environment.rb

─ initializers

─ locales

─ schema.rb

— seeds.rb

   features

→ step_definitions

— support

 - lib

─ assets

─ tasks

─ log
  - public

— 404.html

— 422.html

— 500.html

─ assets

─ favicon.ico

   script
   - cucumber

    ── controllers

─ factories.rb

   ─ helpers
   ─ models
   - requests
   ─ spec_helper.rb

— support

─ vendor

— assets
```

── Gemfile

├─ Guardfile ├─ LICENSE

── README.md

── Gemfile.lock

Django Application

```
— README.md
 – media

    projectname

   — __init__.py

── home

— __init__.py

      ─ models.py

─ tests.py

— views.py

    manage.py
   settings
      __init__.py

    → default.py

      ─ local.template.py

— urls.py

	─ wsgi.py

  requirements.txt
  static-assets

    — apple-touch-icon.png

─ css

       favicon.ico
   — humans.txt

─ images

      ⊢ js
      — main.coffee

→ main.js

— libs

      ─ bootstrap-3.3.5
      ─ font-awesome-4.3.0

→ html5shiv.js

─ jquery
      ─ media -> ../media/
   robots.txt
templates

— 404.html

— 500.html

   ─ base.html
   ─ home.html
```

```
── README.md

→ data

— external

    interim

   processed

— raw

─ docs

    ── commands.rst

─ conf.py

─ getting-started.rst

─ index.rst

    make.bat

─ figures

─ models
notebooks
references
- reports
⊢ src

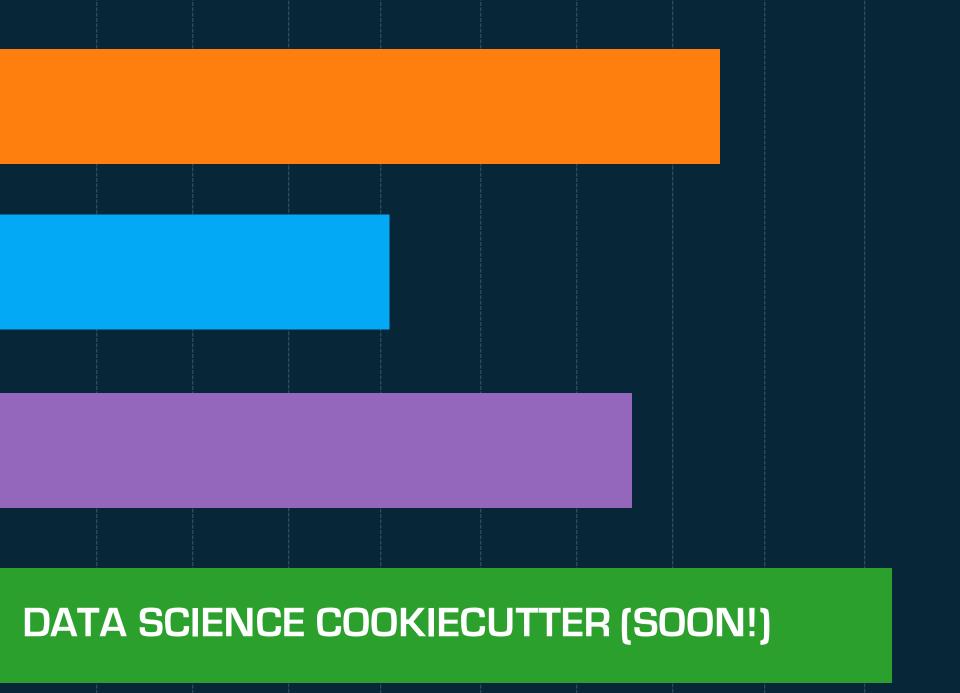
— __init__.py

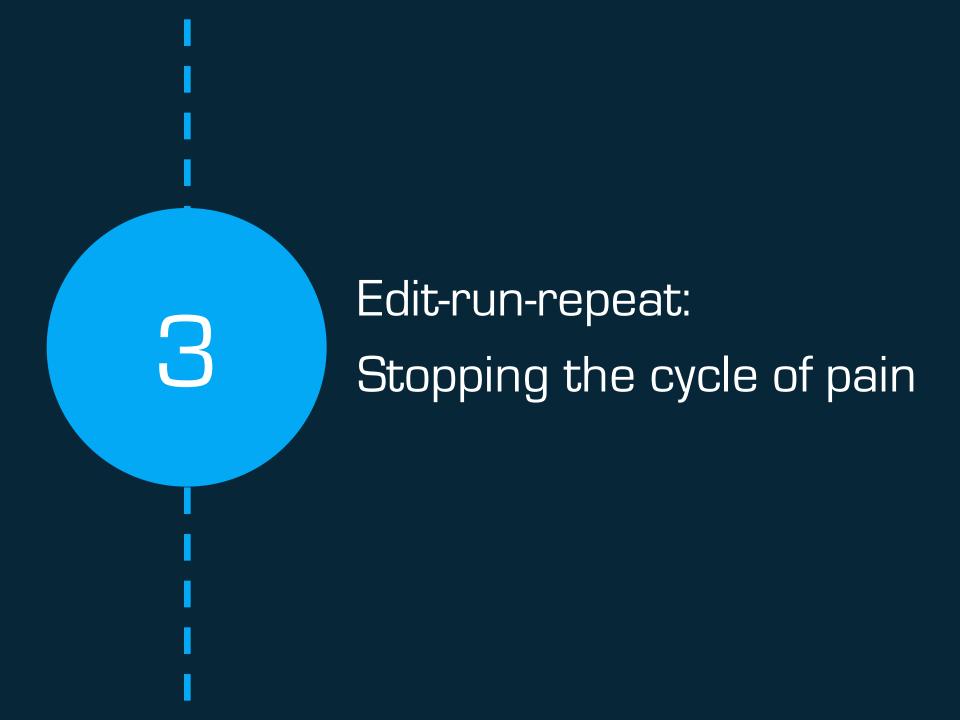
→ data

      make_dataset.py

─ features

   -- predict_model.py
      └─ tox.ini
```









AUTORELOAD, PDB, DEBUG

Q, MODULES

ASSERT, UNITTEST

ENGARDE, NUMPY.TESTING









SENORGIF.COM







COVERAGE.PY

%PRUN

PYCHARM

FLAKE8 LINTING FOR SUBLIME

Not Covered

Version Control git

Code review git branch + pull requests

Branching strategy <u>GitHub Flow</u>

Issue tracking GitHub Issues + <u>waffle.io</u>

Automating workflows <u>Make</u>

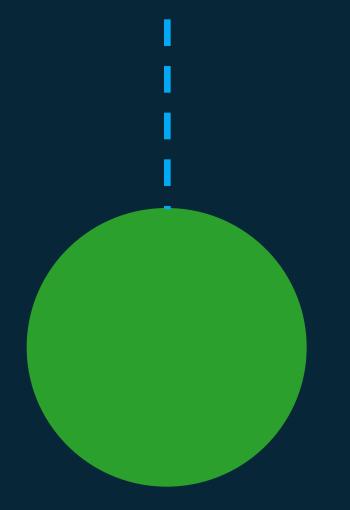
Documentation Generator Sphinx

Docstrings Sphinx ReST

Style guide <u>flake8</u>

Notebook diffing nbconvert to .py on save

Configuration isolation config.py



Questions?

DRIVENDATA @drivendataorg / @pjbull peter@drivendata.org