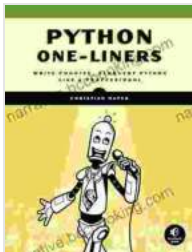


Unlock the Secrets of Eloquent Python: Master the Art of Clear and Concise Code

Are you ready to elevate your Python skills and become a coding virtuoso? Look no further than "Write Concise Eloquent Python Like Professional," the ultimate guide to crafting elegant, readable, and efficient Python code like a seasoned professional.

Delve into the World of Concise Code

In this comprehensive guide, you'll embark on a journey to master the art of writing concise Python code that is not only functional but also a pleasure to read and maintain. Discover the secrets of streamlining your code, eliminating unnecessary complexity, and expressing ideas in the most clear and concise manner possible.



Python One-Liners: Write Concise, Eloquent Python Like a Professional by Christian Mayer

★★★★☆ 4.8 out of 5

Language : English
File size : 8202 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
X-Ray : Enabled
Print length : 217 pages



Python code example [100]

```
import numpy
from numpy.random import random_integers as rand
import matplotlib.pyplot as pyplot

def maze(width=41, height=41, complexity=.7, density=.1):
    # Only odd shapes
    shape = ((height // 2) * 2 + 1, (width // 2) * 2 + 1)
    # Adjust complexity and density relative to maze size
    complexity = int(complexity * (5 * (shape[0] + shape[1])))
    density = int(density * (shape[0] // 2 * shape[1] // 2))
    # Only odd shapes
    Z = numpy.zeros(shape, dtype=bool)
    # Borders
    Z[0, :] = Z[-1, :] = 1
    Z[:, 0] = Z[:, -1] = 1
    # main algorithm
    for i in range(density):
        x, y = rand(0, shape[0] // 2) * 2, rand(0, shape[1] // 2) * 2
        Z[y, x] = 1
        for j in range(4):
            neighbours = []
            if x > 0: neighbours.append((y, x - 1))
            if x < shape[0] - 1: neighbours.append((y, x + 1))
            if y > 0: neighbours.append((y - 2, x))
            if y < shape[1] - 1: neighbours.append((y + 2, x))
            if len(neighbours):
                y_, x_ = neighbours[rand(0, len(neighbours) - 1)]
                if Z[y_, x_] == 0:
                    Z[y_, x_] = 1
                    x, y = (x + x_) // 2, (y + y_) // 2
    return Z

pyplot.figure(figsize=(10, 10))
pyplot.imshow(maze(41, 41), cmap=pyplot.cm.binary, interpolation='nearest')
pyplot.xticks([], pyplot.yticks([]))
pyplot.show()
```

Master the Art of Eloquence

Beyond conciseness, this book delves into the realm of eloquence, teaching you how to craft Python code that is not only clear and efficient but also elegant and expressive. Embrace the principles of simplicity, readability, and maintainability, and transform your code into a masterpiece of programming artistry.

```

import pandas as pd
import numpy as np
import vfdb
import ast

def load_raw_data(df, sampling_rate, path):
    if sampling_rate == 100:
        data = [vfdb.rdsamp(path+f) for f in df.filename_lri]
    else:
        data = [vfdb.rdsamp(path+f) for f in df.filename_br]
    data = np.array([signal for signal, meta in data])
    return data

path = 'path/to/pthz1/'
sampling_rate=100

# load and convert annotation data
Y = pd.read_csv(path+'pthz1_database.csv', index_col='scg_id')
Y.scg_codes = Y.scg_codes.apply(lambda x: ast.literal_eval(x))

# Load raw signal data
X = load_raw_data(Y, sampling_rate, path)

# Load scp statements and use for diagnostic aggregation
agg_df = pd.read_csv(path+'scp_statements.csv', index_col=0)
agg_df = agg_df[agg_df.diagnostic == 1]

def aggregate_diagnostic(y_dic):
    tmp = []
    for key in y_dic.keys():
        if key in agg_df.index:
            tmp.append(agg_df.loc[key].diagnostic_class)
    return list(set(tmp))

# Apply diagnostic superclass
Y['diagnostic_superclass'] = Y.scg_codes.apply(
    aggregate_diagnostic)

# Split data into train and test
test_fold = 10
# Train
X_train = X[np.where(Y.strat_fold != test_fold)]
y_train = Y[(Y.strat_fold != test_fold)].diagnostic_superclass
X_test = X[np.where(Y.strat_fold == test_fold)]
y_test = Y[Y.strat_fold == test_fold].diagnostic_superclass

```

Become a Python Pro

"Write Concise Eloquent Python Like Professional" is more than just a coding guide; it's a roadmap to becoming a highly skilled Python programmer. Inside, you'll find:

* In-depth coverage of Python's core principles and best practices * Proven techniques for writing modular, reusable, and extensible code * Comprehensive examples and exercises to reinforce learning * Expert insights and tips from industry professionals * A wealth of resources to help you stay up-to-date with the latest Python developments

Whether you're a seasoned coder or just starting your Python journey, this book will empower you with the skills and knowledge to write Python code like a true professional.

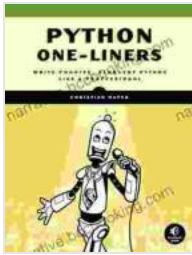
Unlock Your Python Potential

With "Write Concise Eloquent Python Like Professional," you'll unlock your full potential as a Python programmer. You'll gain the confidence to tackle complex coding challenges, write maintainable and efficient software, and elevate your code to a level of artistry that will impress even the most discerning eyes.

Free Download Your Copy Today

Don't wait to master the art of writing concise and eloquent Python code. Free Download your copy of "Write Concise Eloquent Python Like Professional" today and embark on a transformational learning journey that will propel your programming career to new heights.

Join the ranks of Python professionals and unlock the secrets of writing code that is not only functional but also a testament to your skill and artistry. Embrace the power of concise eloquence, and elevate your Python programming to the next level.

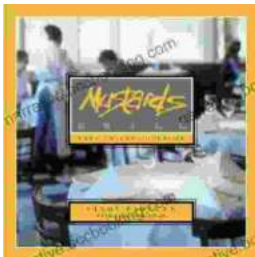


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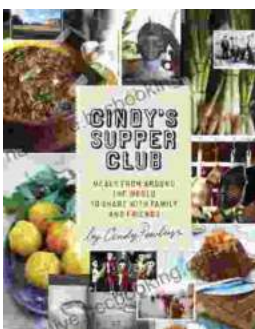
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