Pythonic Test-Driven Development

Welcome

I’m your host, Aaron Maxwell.

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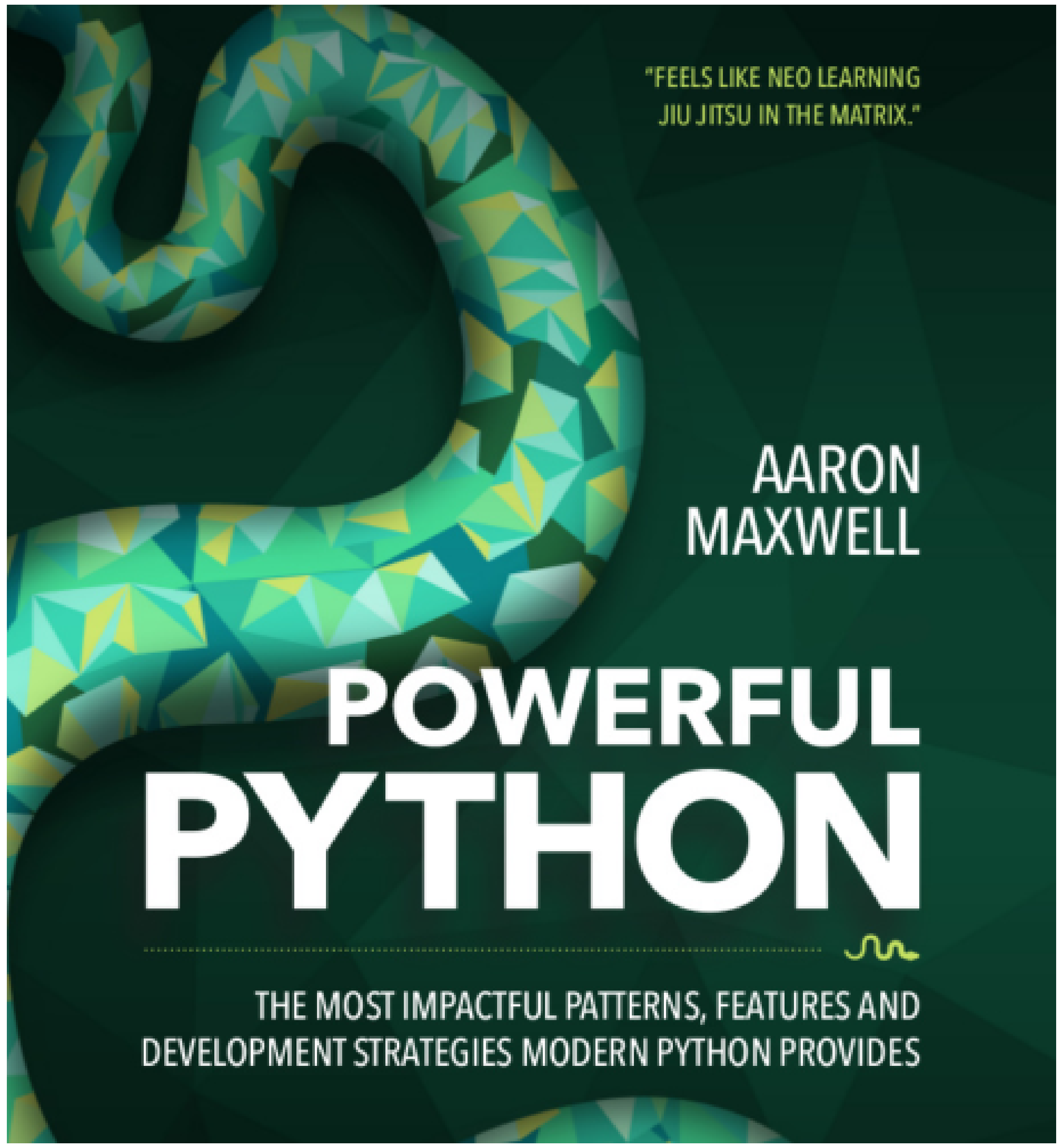
"FEELS LIKE NEO LEARNING JIU JITSU IN THE MATRIX."
AARON MAXWELL
POWERFUL PYTHON
THE MOST IMPACTFUL PATTERNS, FEATURES AND DEVELOPMENT STRATEGIES MODERN PYTHON PROVIDES

In this class, you learn a **superpower**: how to write automated tests in Python.

How we will proceed

Download courseware ZIP:

- Click on the green "Resource List" icon
- Or fetch from: https://powerfulpython.com/courseware-tdd.zip

What’s included:

- PDF course book
- Slides
- README.txt with pointers
- Labs (i.e., programming exercises - more on that later)

Give you a break every hour (10 minutes).

Give me a thumbs up. (Let’s try it now)

Ask questions anytime.

Python versions

Most code I show you will run in both Python 2 and 3.

Where it’s different, I’ll code in Python 3, and point out the differences. (There won’t be many.)

You can do the programming exercises in either 3, or 2.7.

What makes perfect?

Practice, practice, practice.

- Practice syntax (typing things in)
- Practice programming (higher-level labs)

I expect you to do your part!

You **exponentially** get out of this what you put into it.

GO FOR IT.

Running the labs

Labs are the main programming exercises.

When done, click the thumb’s up, and give a HIGH FIVE in the chat room.

Then: Move on to the extra credit.

Getting the most

We’ll take some class time for each lab. You may not finish, but it’s **critically important** that you at least start when I tell you to.

After we’re done for the day, find time to finish all the main labs before tomorrow.

Solutions are provided. Use them wisely, not foolishly:

- After you get the lab passing, compare your code to the official solution.
- Other than that, don’t look at them if you can avoid it.
- The more work you can do on your own, the more you will learn. Peek at the solution to get a hint when you really need it.

Optional (**only** for future master Pythonistas): Do all the extra labs as well, as soon as you can manage.

Python Trainings

- **Scaling Python with Generators**: Write robust, reliable code to gracefully handle increasing amounts of data
- **Pythonic Object-Oriented Programming**: Master the principles of OOP, in Python
- **Pythonic Design Patterns**: Understand higher-level design patterns. Pythonically
- **Test-Driven Development In Python**: Master automated testing. It’s a *superpower*.
- **Beyond Python Scripts: Logging, Modules, & Dependency Management**: For larger Python applications. Part 1
- **Beyond Python Scripts: Exceptions, Error Handling and Command-Line Interfaces**: Continued with Part 2
- **Python - The Next Level**: See into the Matrix of Python. Master facets of this language that 99% of Python developers will *never* learn

For detailed course descriptions and sign-up information:

https://powerfulpython.com/safari-trainings/

(Select "Python Trainings" under the green "Resource List" icon.)