

Wrap-Up

- In this lecture I'm going to quickly review what we went over in the course and where to go from here.

Course Summary

- What Unit Testing and Test Driven Development Are
- Went over the PyTest Unit Testing Framework.
- Supermarket Checkout Kata
- Reviewed the types of Test Doubles and how they each can help with isolating the code under test.
- Went over some best practices of Unit Testing and Test Driven Development.

- Going through the course we went over:
- What Unit Testing and Test Driven Development Are and Had a Quick Hands On Example
- Then we had an overview of PyTest the Python unit testing framework.
- Then we had another more complex hands on example of TDD in the Super Market Checkout Kata.
- Then we reviewed the types of Test Doubles and how they help us test our code in isolation and worked through an example using unittest.mock and the monkey patch test fixture.
- Lastly we went over some essential best practices of Unit Testing and TDD.

Additional Reading on TDD

- Kent Beck - Test Driven Development: By Example (ISBN 978-0321146533)
- Robert Martin - Clean Code: A Handbook of Agile Software Craftsmanship (ISBN 978-0132350884)
- Michael Feathers - Working Effectively with Legacy Code (ISBN 978-0131177055)

- Here are a few great books to pick up to help you with learning Test Driven Development.
- <click> Kent Beck's book "Test Driven Development: By Example" is a great book from the creator of Test Driven Development with a detailed case study on using TDD.
- <click> Robert Martin's "CleanCode: A Handbook of Agile Software Craftsmanship" provides the three laws of TDD as well a lot of other expert guidance on writing clean and maintainable code.
- <click> Michael Feather's "Working Effectively with Legacy Code" is a fantastic book for providing effective techniques for adding unit tests to existing code.
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What To Do Next?

- Continue to practice your new discipline of TDD everyday both in work and with additional code Katas.
- Read the books from the previous slide and work through their examples.
- Watch Robert Martin's "Clean Code" video series which is an excellent resource for how to write code in general (<https://cleancoders.com/>)

- So what should you do next to continue your education and expertise with unit testing and Test Driven Development?
- First you continue to practice writing unit tests using test driven development. You should apply this practice professionally and with code katas. Try to have a TDD coding session every day.
- Your education on unit testing, TDD, and coding in general never stops. Read through the books mentioned in the previous slide and work through their examples.
- Along that line, Robert Martin's "Clean Code" instructional video series is an excellent resource for coding, testing, and implementing good software architecture.

Conclusion

- So that completes this course on Unit Testing and Test Driven Development in Python. I hope you've enjoyed this course and found it a valuable source of information and training. If you did enjoy the course please leave a review. If you have any questions or concerns about the course please feel free to contact me and I'll try to respond quickly and with any updates to the course that are necessary. Thank you very much for your time and interest in this course.