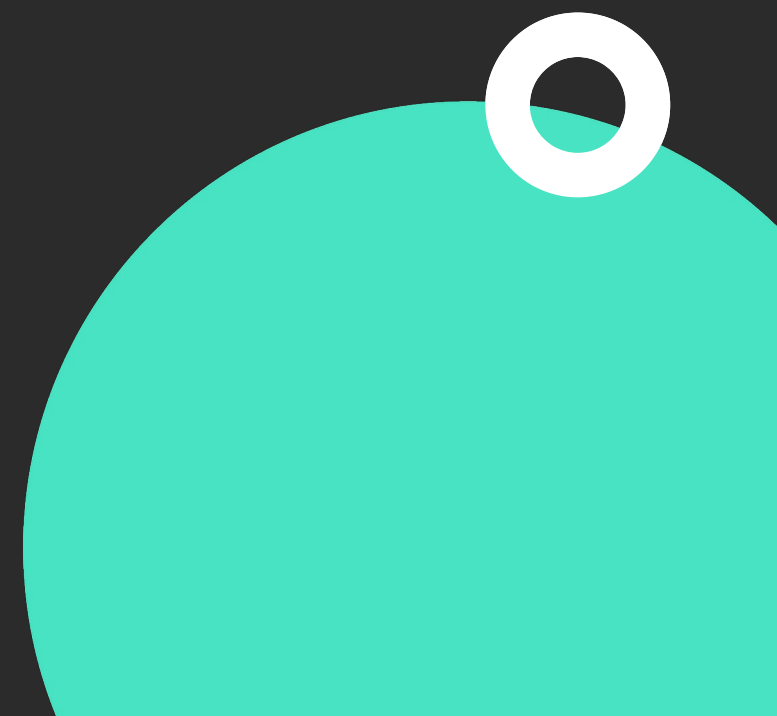# Testing Preferences and Proto DataStores

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Section Overview

- Write simple unit tests for both our Preferences DataStore and Proto DataStore

- Write simple UI tests for ComicsUiScreen

Testing Compose Code

- Importance of testing

- Types of tests:

  - Unit tests

  - Instrumented tests

Add Test Code

- Test our repositories

    - UserPreferencesRepositoryTest

    - UserProtoPreferencesRepositoryTest

- ComicsUiScreenTest

Section Summary

- Unit tests vs. UI (Instrumented) tests

- Write unit test for both our Preferences and Proto DataStore

- Write UI tests for ComicsUiScreen

Course Summary and Takeaways

- Overview of Jetpack DataStore and its Implementations

- Preferences vs. Proto DataStore

- Instantiate Preferences DataStore

- Instantiate Proto DataStore

- Use Preferences DataStore and Proto DataStore in Jetpack Compose

- Test the functionality of Preferences DataStore and Proto DataStore

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Where to go next?

- Try to complete starter projects of each section without looking at solution

- Try to add more preferences to the application like the app theme

- Be friends with references and samples as you develop Android apps with Jetpack Compose:

    - Android Documentation: d.android.com/reference

    - Android Code Search: cs.anroid.com/androidx

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Thank You