Slide 1
1. Greeting and theme

Slide 2
2. Agenda - types of testing, how robolectric works, how to write test, questions
3. Quiz - how many don't have automated tests

Slide 3
4. Buying 2nd hand bike and checklist. My breaks and light. Acceptance or Functional tests

Slide 4
5. Bike is on stand. Spin pedals and observe back wheel. Integration test

Slide 5
6. Disassemble pedal block and checking ball bearing. Smallest part of bike but influencing on the performance. Unit test.
7. Gives some level of confidence that bike is working. However situation when it acceptance tests fails or passing unit tests

Slide 6
8. Robolectric. Why? Main reason slow and second reason failing plain unit tests

Slide 7
9. Robolectric instrument bytecode and later intercepts class loading. Uses AOSP Android source

Slide 8
10. Also loads resources, giving control over threads ands private state

Slide 9
11. What changes to be done to run first test - grade, test runner, test code, grade run

Slide 10
12. Add robolectric gradle plugin, apply plugin and add test dependencies

Slide 11
13. Write your test. Example test of correct year in copyright for about screen. Add test runner and configuration. Setup activity to the required lifecycle state. Test the year of the copyright

Slide 12
14. Useful library AssertJ - you see difference with wrote check and with failure output

Slide 13
15. Another example - Behaviour test. Here is code of login activity with two edit fields and button.

Slide 14
16. Here is test that checks call to User when button is pressed. Used library Mockito. With Mockito you can mock or spy dependencies

Slide 15
17. I will not talk in this talk about dependency injection. But you already saw some basic usage of this pattern. How to switch, reconfigure your test dependencies. What is in manifest, you app class, class that will Robolectric load

Slide 16
18. I was blinking my eye during my talk quite often. It is because all statement are not true or partial true with release of android grade plugin v1.1. Robolectric 3.x is coming

Slide 17
19. References to get more knowledge and my twitter for questions

Slide 18
20. And now I'm glad to answer your further questions