





ROBOTS, ANDROIDS & THE ETERNAL FIGHT ON FLAKY TESTS

"The Robots have finally taken over the Flaky. Refreshing!" – **The QA Times**

"公公公公公!"

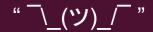
– Android Developers Magazine

starring

THE FLAKY ONES

"Their evilness knows no boundaries!"

"I cross my fingers when I run my tests..."





BLACKLANE

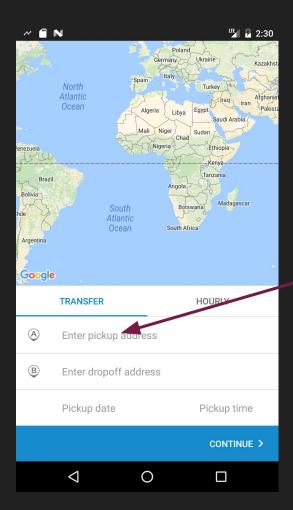
YOUR PROFESSIONAL DRIVER



You. Release. Manual regression testing. - 12pm



compile 'com.android.support.test.espresso:espresso-core:2.2.2'







- code generated is not easy to read
- waiting for network load elements causes failures
- testing environment is not hermetic
- no comprehensive report with results

Fight #1

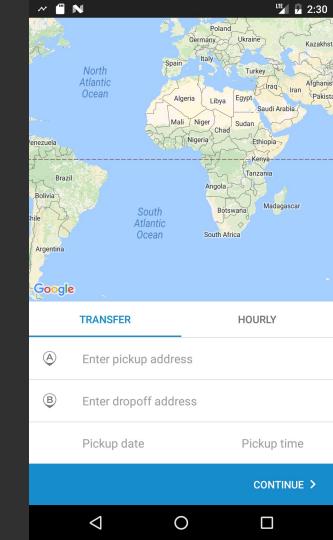
keywords: 'jake' 'robots' 'kotlin'

Test canSearchForPickup:

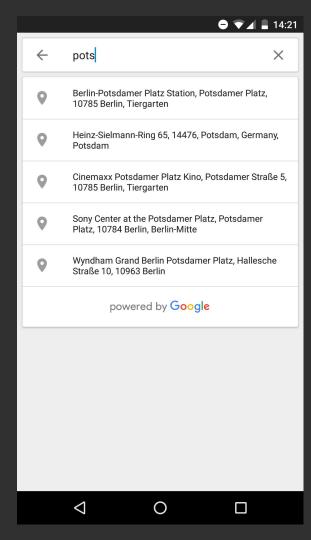
```
@Rule public final ActivityTestRule activityTestRule = new ActivityTestRule<>(BookingActivity.class);
onView(withId(R.id.location_selection_pickup_location_text))
        .perform(click());
    onView(withId(R.id.location_search_input))
        .perform(typeText("Ohlauer Straße"), closeSoftKeyboard());
    onView(withId(R.id.location_search_result_list))
        .perform(waitUntilPopulated())
        .perform(RecyclerViewActions.actionOnItemAtPosition(0, click()));
onView(withId(R.id.location_selection_pickup_location_text))
         .check(matches(withText("Ohlauer Straße")));
```

Test canSearchForPickup:

```
public class LocationSelectionRobot {
  public LocationSelectionRobot clickToSearchPickUp(String
pickup) {
onView(withId(R.id.location_selection_pickup_location_text))
        .perform(click());
    return this;
 public static class TestScreen {
   public void hasPickupLocationText(String text) {
onView(withId(R.id.location_selection_pickup_location_text))
          .check(matches(withText(text)));
```



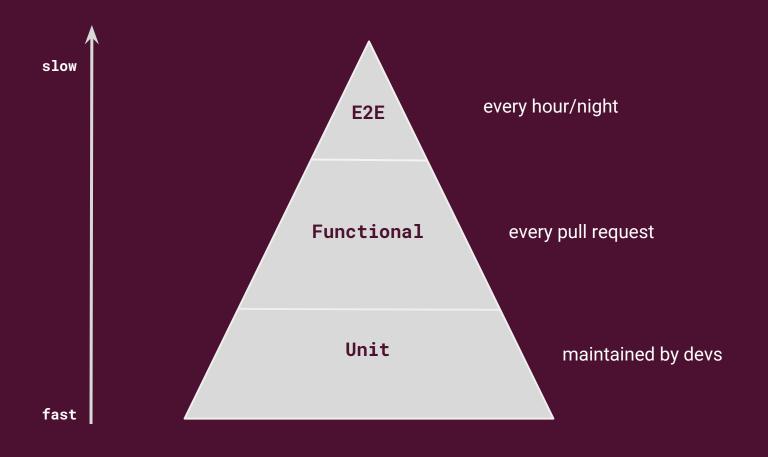
IDLING RESOURCES



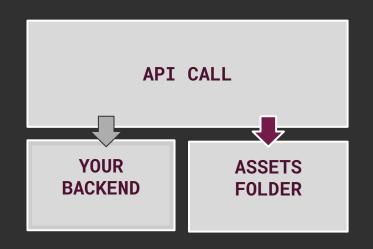
IDLING RESOURCES

isIdleNow()

```
public class BananasIdleResource implements
IdleResource () {
@Override
public void getName() {
  return "BananasIdleResourceName";
@Override
public boolean isIdleNow() {
  Boolean idle = activity != null && callback
!= null && activity.isLoadingFinished();
@Override
public void registerIdleTransitionCallback() {
  this.callback = resourceCallback;
```



OFFLINE INTERCEPTOR



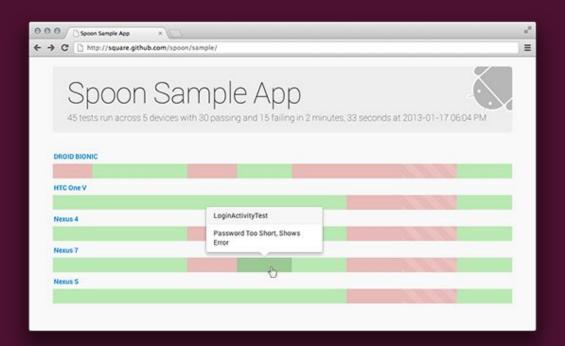




JENKINS PIPELINE

(SRLSLY TRY IT)

Fight #4





Yet Another Checklist:

- 1 Think maintainability
- (2) Ubiquitous language
- (3) Have a plan B
- 4 Establish a 80/20 rule
- Test suite accountability
- ∞ No BS, seriously.



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Materials: github.com/sofiavistas/womenwhocode