

# Testing Android Applications

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With IntelliJ IDEA you can generate and run unit tests for your Android applications using [Android Testing Framework](#). Unit tests are stored in a dedicated module related to the target tested module. Each module to be tested requires a separate test module. For executing unit tests, IntelliJ IDEA provides an Android-specific run configuration.

Unit testing in Android applications involves the following general steps:

- [Creating a module for unit tests.](#)
- [Generating unit tests.](#)
- [Running unit tests.](#)

## To create a module for android unit tests

1. [Create an Android module from scratch.](#)
2. On the [last page of the Wizard](#), choose the **Test** option.
3. Specify the module to run unit tests against in the **Tested Module** drop-down list.
4. Click **Finish**.

To have a dedicated run configuration of the type [Android Test](#) created, click **Yes** in the **Create Android Run Configuration** dialog box that opens.

## To generate unit tests for an android application

1. When you click **Finish** on the last page of the new module Wizard, IntelliJ IDEA creates a module with the specified name and a stub test class for your main activity with the default name `<main activity class name>Test`.
2. Complete the stub and [populate the test module](#) as necessary.

## To run unit tests for an android application, perform these general steps

- Specify the tests to run. Do one of the following:
  - To run single test, open it in the editor and choose **Run | Android Test** on the context menu. IntelliJ IDEA creates a **Android Test** [temporary run configuration](#).
  - To run all tests in a class or the entire test module, [create an Android Test run/debug configuration](#).
  - [Save and edit](#) a previously created temporary run configuration.
  - Use the [dedicated Android run configuration](#).
- To perform unit tests, choose the desired configuration from the drop-down list on the main toolbar and [start the test](#) according to it.
- [Monitor the test execution and view test results](#) in the **Test Runner** tab of the **Run** tool window.

## See Also

Concepts:

- [Module](#)
- [Run/Debug Configuration](#)

Procedures:

- [Enabling Android Support](#)
- [Adding Modules to a Project](#)

- [Running and Debugging Android Applications](#)
- [Android](#)

**Reference:**

- [New Project Wizard](#)
- [Test Runner Tab](#)
- [Android Reference](#)

**External Links:**

- [http://developer.android.com/guide/topics/testing/testing\\_android.html](http://developer.android.com/guide/topics/testing/testing_android.html) 

**Web Resources:**

- [Developer Community](#) 