

- While only 75% of your Apex code must be covered by tests, don't focus on the percentage of code that is covered. Instead, make sure that every use case of your application is covered, including positive and negative cases, as well as bulk and single records. This approach ensures that 75% or more of your code is covered by unit tests.
- Every trigger must have some test coverage.
- All classes and triggers must compile successfully.

For more information on writing tests, see [Testing Apex](#) on page 638.

## Deploying Apex to a Sandbox Organization

Sandboxes create copies of your Salesforce org in separate environments. Use them for development, testing, and training without compromising the data and applications in your production org. Sandboxes are isolated from your production org, so operations that you perform in your sandboxes don't affect your production org.

To deploy Apex from a local project in the Salesforce extension for Visual Studio Code to a Salesforce organization, see [Salesforce Extensions for Visual Studio Code](#).

You can also use the `deploy()` Metadata API call to deploy your Apex from a developer organization to a sandbox organization.

A useful API call is `runTests()`. In a development or sandbox organization, you can run the unit tests for a specific class, a list of classes, or a namespace.

You can also use Salesforce CLI. See [Develop Against Any Org](#) for details.

For more information, see [Deploying Apex](#).

## Deploying Apex to a Salesforce Production Organization

After you have finished all of your unit tests and verified that your Apex code is executing properly, the final step is deploying Apex to your Salesforce production organization.

To deploy Apex from a local project in Visual Studio Code editor to a Salesforce organization, see [Salesforce Extensions for Visual Studio Code](#).

Also, you can deploy Apex through change sets in the Salesforce user interface.

For more information and for additional deployment options, see [Deploying Apex](#) on page 672, and [Build and Release Your App](#).

## Adding Apex Code to a AppExchange App

You can include an Apex class or trigger in an app that you're creating for AppExchange.

Any Apex that is included as part of a package must have at least 75% cumulative test coverage. Each trigger must also have some test coverage. When you upload your package to AppExchange, all tests are run to ensure that they run without errors. In addition, tests with the `@IsTest(OnInstall=true)` annotation run when the package is installed in the installer's organization. You can specify which tests should run during package install by annotating them with `@IsTest(OnInstall=true)`. This subset of tests must pass for the package install to succeed.

For more information, see the [Second-Generation Managed Packaging Developer Guide](#).

## Apex Quick Start

This step-by-step tutorial shows how to create a simple Apex class and trigger, and how to deploy these components to a production organization.

# Force Com Apex Code Developer Guide

**Rick Greenwald**



## **Force Com Apex Code Developer Guide:**

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**Learning Apex Programming** Matt Kaufman, Michael Wicherski, 2015-01-31 If you are a developer who has some object oriented programming experience *Learning Apex Programming* is the perfect book for you This book is most appropriate for developers who wish to gain an understanding of the Force com platform and how to use Apex to create business applications

*Salesforce Handbook* Wes Nolte, Jeff Douglas, 2011-03-01 This book is not intended to be a deep dive on security programming reporting configuration etc but more of a high level overview on salesforce com Force com development tools methodology and other resources We will not cover all aspects of salesforce com We wrote this book to hopefully become an invaluable resource for anyone new or inexperienced with the Force com platform For new administrators and developers coming on to the platform we see a gaping hole in existing reference books This book is not

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**Index**, 1980      **Federal Laboratory and Technology** Information Service National, Informattion Service National  
Staff, Joyce L. Vedral, 1990

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