

Adding TestNG to a Maven Project

If you're using Maven, include the following dependency in your `pom.xml`:

```
``xml

org.testng

testng

7.7.0

test

``
```

Then, refresh your Maven project to download dependencies.

Configuring IDE Support

Most IDEs like IntelliJ IDEA, Eclipse, and NetBeans provide built-in support for TestNG:

- Install the TestNG plugin if necessary.
- Create a new TestNG test class or run existing tests directly from the IDE.

Writing Your First Test with TestNG

Let's start with a simple example to understand the basic structure.

Basic Test Class Structure

```
``java

import org.testng.Assert;

import org.testng.annotations.Test;

public class CalculatorTest {

@Test
```


...

This approach enhances test coverage and reduces code duplication.

3. Test Grouping and Prioritization

Grouping tests allows running subsets based on categories.

```
```java

@Test(groups = {"fast"})

public void fastTest() {

 // Fast test logic

}

@Test(groups = {"slow"})

public void slowTest() {

 // Slow test logic

}

...

```

Prioritization controls the order of execution:

```
```java

@Test(priority = 1)

public void firstTest() {

    // Runs first

}

...

```


