

Inline

IntelliJ IDEA provides the following inline refactorings:

- The *Inline Variable* refactoring replaces redundant variable usage with its initializer. See [example](#). This refactoring is opposite to the [Extract Variable](#) refactoring.

The variable must be initialized at declaration. If the initial value is modified somewhere in the code, only the occurrences before modification will be inlined.

- *Inline Method* refactoring results in placing method's body into the body of its caller(s). You can opt to:
 - inline all occurrences of the method, and delete the method
 - inline only a single occurrence, and retain the methodSee [example](#). This refactoring is opposite to the [Extract Method](#) refactoring.
- *Inline to Anonymous Class* refactoring allows replacing redundant class with its contents.
- *Inline Constructor* allows compressing a chain of constructors, if one of them is a special case of another. See [example](#).
- *Inline JSP/JSPX* works like a regular Java inline refactoring.
- *Inline Superclass* refactoring results in pushing superclass' methods into the class where they are used, and removing the superclass.

Examples

Inline variable

Before	After
<pre>public void method() { int number = anotherClass.intValue(); int b = a + number; }</pre>	<pre>public void method() { int b = a + anotherClass.intValue(); }</pre>
<pre>public void method() { AnotherClass.InnerClass aClass = anotherClass.innerClass; int a = aClass.i; }</pre>	<pre>public void method() { int a = anotherClass.innerClass.i; }</pre>

Inline method

Before	After
<pre>public void method() { int c=add(a,b); int d=add(a,c); } private int add(int a, int b) { return a+b; }</pre>	<pre>public void method() { int c= a + b; int d= a + c; }</pre>

Before	After
<pre> public ArrayList method() { String[] strings = {"a","b","c"}; ArrayList list=add(strings); return list; } private ArrayList add(String[] strings) { ArrayList list = new ArrayList(); for (int i=0; i< strings.length; i++) {list.add(strings[i]);} return list; } </pre>	<pre> public ArrayList method() { String[] strings = {"a","ab","abc"}; ArrayList list1 = new ArrayList(); for (int i=0; i< strings.length; i++) {list.add(strings[i]);} ArrayList list = list1; return list; } </pre>

Inline constructor

Before	After
<pre> public class Class { public int varInt; public Class() { this(0); } public Class(int i) { varInt=i; } public void method() { Class aClass=new Class(); ... } } </pre>	<pre> public class Class { public int varInt; public Class(int i) { varInt=i; } public void method() { Class aClass=new Class(0); ... } } </pre>

Inline superclass

Before	After
<pre> public class Bar { ... int calculations1() { ... } int calculations2() { ... } } class Foo extends Bar { int someMethod() { ... if (something > calculations1()) { ... return calculations2(); } ... } } </pre>	<pre> class Foo { ... int someMethod() { ... if (something > calculations1()) { ... return calculations2(); } ... } int calculations1() {...} int calculations2() {...} } </pre>

To perform the inline refactoring

1. Place the caret in the editor at the desired symbol to be inlined.
2. Do one of the following:
 - On the main menu or on the context menu of the selection, choose **Refactor | Inline**.
 - Press **Ctrl+Alt+N**.
3. In the **Inline dialog**, that corresponds to the selected symbol, specify the inlining options.
4. **Preview and apply changes**.

See Also

Procedures:

- [Refactoring Source Code](#)

Reference:

- [Inline Method](#)
- [Inline Dialogs](#)

Web Resources:

- [Developer Community](#) 