| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DropTargetListener.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/java/awt/dnd/DropTargetEvent.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/dnd/InvalidDnDOperationException.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/dnd/DropTargetListener.html)    [**NO FRAMES**](http://docs.google.com/DropTargetListener.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#2et92p0) |

## **java.awt.dnd**

Interface DropTargetListener

**All Superinterfaces:** [EventListener](http://docs.google.com/java/util/EventListener.html) **All Known Implementing Classes:** [DropTarget](http://docs.google.com/java/awt/dnd/DropTarget.html), [DropTargetAdapter](http://docs.google.com/java/awt/dnd/DropTargetAdapter.html)

public interface **DropTargetListener**extends [EventListener](http://docs.google.com/java/util/EventListener.html)

The DropTargetListener interface is the callback interface used by the DropTarget class to provide notification of DnD operations that involve the subject DropTarget. Methods of this interface may be implemented to provide "drag under" visual feedback to the user throughout the Drag and Drop operation.

Create a listener object by implementing the interface and then register it with a DropTarget. When the drag enters, moves over, or exits the operable part of the drop site for that DropTarget, when the drop action changes, and when the drop occurs, the relevant method in the listener object is invoked, and the DropTargetEvent is passed to it.

The operable part of the drop site for the DropTarget is the part of the associated Component's geometry that is not obscured by an overlapping top-level window or by another Component higher in the Z-order that has an associated active DropTarget.

During the drag, the data associated with the current drag operation can be retrieved by calling getTransferable() on DropTargetDragEvent instances passed to the listener's methods.

Note that getTransferable() on the DropTargetDragEvent instance should only be called within the respective listener's method and all the necessary data should be retrieved from the returned Transferable before that method returns.

**Since:** 1.2

| **Method Summary** | |
| --- | --- |
| void | [**dragEnter**](http://docs.google.com/java/awt/dnd/DropTargetListener.html#dragEnter(java.awt.dnd.DropTargetDragEvent))([DropTargetDragEvent](http://docs.google.com/java/awt/dnd/DropTargetDragEvent.html) dtde)            Called while a drag operation is ongoing, when the mouse pointer enters the operable part of the drop site for the DropTarget registered with this listener. |
| void | [**dragExit**](http://docs.google.com/java/awt/dnd/DropTargetListener.html#dragExit(java.awt.dnd.DropTargetEvent))([DropTargetEvent](http://docs.google.com/java/awt/dnd/DropTargetEvent.html) dte)            Called while a drag operation is ongoing, when the mouse pointer has exited the operable part of the drop site for the DropTarget registered with this listener. |
| void | [**dragOver**](http://docs.google.com/java/awt/dnd/DropTargetListener.html#dragOver(java.awt.dnd.DropTargetDragEvent))([DropTargetDragEvent](http://docs.google.com/java/awt/dnd/DropTargetDragEvent.html) dtde)            Called when a drag operation is ongoing, while the mouse pointer is still over the operable part of the drop site for the DropTarget registered with this listener. |
| void | [**drop**](http://docs.google.com/java/awt/dnd/DropTargetListener.html#drop(java.awt.dnd.DropTargetDropEvent))([DropTargetDropEvent](http://docs.google.com/java/awt/dnd/DropTargetDropEvent.html) dtde)            Called when the drag operation has terminated with a drop on the operable part of the drop site for the DropTarget registered with this listener. |
| void | [**dropActionChanged**](http://docs.google.com/java/awt/dnd/DropTargetListener.html#dropActionChanged(java.awt.dnd.DropTargetDragEvent))([DropTargetDragEvent](http://docs.google.com/java/awt/dnd/DropTargetDragEvent.html) dtde)            Called if the user has modified the current drop gesture. |

| **Method Detail** |
| --- |

### dragEnter

void **dragEnter**([DropTargetDragEvent](http://docs.google.com/java/awt/dnd/DropTargetDragEvent.html) dtde)

Called while a drag operation is ongoing, when the mouse pointer enters the operable part of the drop site for the DropTarget registered with this listener.

**Parameters:**dtde - the DropTargetDragEvent

### dragOver

void **dragOver**([DropTargetDragEvent](http://docs.google.com/java/awt/dnd/DropTargetDragEvent.html) dtde)

Called when a drag operation is ongoing, while the mouse pointer is still over the operable part of the drop site for the DropTarget registered with this listener.

**Parameters:**dtde - the DropTargetDragEvent

### dropActionChanged

void **dropActionChanged**([DropTargetDragEvent](http://docs.google.com/java/awt/dnd/DropTargetDragEvent.html) dtde)

Called if the user has modified the current drop gesture.

**Parameters:**dtde - the DropTargetDragEvent

### dragExit

void **dragExit**([DropTargetEvent](http://docs.google.com/java/awt/dnd/DropTargetEvent.html) dte)

Called while a drag operation is ongoing, when the mouse pointer has exited the operable part of the drop site for the DropTarget registered with this listener.

**Parameters:**dte - the DropTargetEvent

### drop

void **drop**([DropTargetDropEvent](http://docs.google.com/java/awt/dnd/DropTargetDropEvent.html) dtde)

Called when the drag operation has terminated with a drop on the operable part of the drop site for the DropTarget registered with this listener.

This method is responsible for undertaking the transfer of the data associated with the gesture. The DropTargetDropEvent provides a means to obtain a Transferable object that represents the data object(s) to be transfered.

From this method, the DropTargetListener shall accept or reject the drop via the acceptDrop(int dropAction) or rejectDrop() methods of the DropTargetDropEvent parameter.

Subsequent to acceptDrop(), but not before, DropTargetDropEvent's getTransferable() method may be invoked, and data transfer may be performed via the returned Transferable's getTransferData() method.

At the completion of a drop, an implementation of this method is required to signal the success/failure of the drop by passing an appropriate boolean to the DropTargetDropEvent's dropComplete(boolean success) method.

Note: The data transfer should be completed before the call to the DropTargetDropEvent's dropComplete(boolean success) method. After that, a call to the getTransferData() method of the Transferable returned by DropTargetDropEvent.getTransferable() is guaranteed to succeed only if the data transfer is local; that is, only if DropTargetDropEvent.isLocalTransfer() returns true. Otherwise, the behavior of the call is implementation-dependent.

**Parameters:**dtde - the DropTargetDropEvent

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DropTargetListener.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#2et92p0) |

[Submit a bug or feature](http://bugs.sun.com/services/bugreport/index.jsp)

For further API reference and developer documentation, see [Java SE Developer Documentation](http://docs.google.com/webnotes/devdocs-vs-specs.html). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

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