

[AppKit](#) / [NSCollectionViewDelegate](#) / `collectionView(_:validateDrop:proposedIndex:dropOperation:)`

Instance Method

collectionView(_:validateDrop:proposedIndex:dropOperation:)

Validates the specified location to see if it is a valid drop target.

macOS 10.6+

```
@MainActor
optional func collectionView(
    _ collectionView: NSCollectionView,
    validateDrop draggingInfo: any NSDraggingInfo,
    proposedIndex proposedDropIndex: UnsafeMutablePointer<Int>,
    dropOperation proposedDropOperation: UnsafeMutablePointer<NSCollection
View.DropOperation>
) -> NSDragOperation
```

Parameters

collectionView

The collection view that send the message.

draggingInfo

An object containing details about this dragging operation.

proposedDropIndex

The proposed drop index. This parameter is passed by-reference and can be modified retarget the drop operation.

proposedDropOperation

The proposed drop operation. This parameter is passed by-reference and can be modified to change the drop operation.

Return Value

A value that indicates which dragging operation to perform. Return [NSDragOperationNone](#) to disallow the drop.

Discussion

Based on the mouse position, the collection view will suggest a proposed index and drop operation. These values are in/out parameters and can be changed by the delegate to retarget the drop operation.

The collection view will propose NSCollectionViewDropOn when the dragging location is closer to the middle of the item than either of its edges. Otherwise, it will propose NSCollectionViewDropBefore. You may override this default behavior by changing `proposedDropOperation` or `proposedDropIndex`.

To receive drag messages, you must first send [registerForDraggedTypes\(_ :\)](#) to the collection view with the drag types you want to support.

You must implement this method for your collection view to be a drag destination.

See Also

Legacy Collection View Support

```
func collectionView(NSCollectionView, canDragItemsAt: IndexSet, with: NSEvent) -> Bool
```

Returns a Boolean indicating whether the collection view can begin dragging the specified items.

```
func collectionView(NSCollectionView, pasteboardWriterForItemAt: Int) -> (any NSPasteboardWriting)?
```

Provides the pasteboard writer for the item at the specified index

```
func collectionView(NSCollectionView, writeItemsAt: IndexSet, to: NSPasteboard) -> Bool
```

Invoked after it has been determined that a drag should begin, but before the drag has been started.

Deprecated

```
func collectionView(NSCollectionView, namesOfPromisedFilesDroppedAtDestination: URL, forDraggedItemsAt: IndexSet) -> [String]
```

Invoked to return an array of filenames that the receiver promises to create.

Deprecated

```
func collectionView(NSCollectionView, draggingImageForItemsAt: IndexSet, with: NSEvent, offset: NSPointPointer) -> NSImage
```

Creates and returns a drag image to represent the specified items during a drag.

```
func collectionView(NSCollectionView, draggingSession: NSDraggingSession, willBeginAt: NSPoint, forItemsAt: IndexSet)
```

Notifies your delegate that a drag session is about to begin.

```
func collectionView(NSCollectionView, acceptDrop: any NSDraggingInfo, index: Int, dropOperation: NSCollectionView.DropOperation) -> Bool
```

Invoked when the mouse is released over a collection view that previously allowed a drop.