



UWP



Toolbars



WINDOWS > GUIDES > USER INTERFACE > TOOLBARS

Customizing the annotation toolbar in the UWP PDF viewer

It's possible to add, remove, and reorder all the built-in annotation buttons on the toolbar.

Adding an annotation toolbar item

The next section covers how to add an annotation toolbar item.

Built-in annotation toolbar items

The following list contains all the built-in annotation toolbar items:

- ✧ `StrokeColorAnnotationToolbarItem`
- ✧ `FillColorAnnotationToolbarItem`
- ✧ `BackgroundColorAnnotationToolbarItem`
- ✧ `OpacityAnnotationToolbarItem`
- ✧ `LineWidthAnnotationToolbarItem`
- ✧ `BlendModeAnnotationToolbarItem`
- ✧ `SpacerAnnotationToolbarItem`
- ✧ `DeleteAnnotationToolbarItem`
- ✧ `AnnotationNoteAnnotationToolbarItem`



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- ✧ `BorderColorAnnotationToolbarItem`
- ✧ `BorderWidthAnnotationToolbarItem`
- ✧ `BorderStyleAnnotationToolbarItem`
- ✧ `ColorAnnotationToolbarItem`
- ✧ `LinecapsDasharrayAnnotationToolbarItem`
- ✧ `LineStyleAnnotationToolbarItem`
- ✧ `FontAnnotationToolbarItem`
- ✧ `OverlayTextAnnotationToolbarItem`
- ✧ `OutlineColorAnnotationToolbarItem`
- ✧ `ApplyRedactionsAnnotationToolbarItem`
- ✧ `NoteIconAnnotationToolbarItem`
- ✧ `ClockwiseRotationAnnotationToolbarItem`
- ✧ `CounterClockwiseRotationAnnotationToolbarItem`

The same list can be found in the [API reference](#).

Before modifying the annotation toolbar, specify which annotation toolbar to modify with the `AnnotationType` enumeration.

The following code shows how to add a built-in annotation item to the `Text` annotation toolbar:

```
1 AnnotationType at = AnnotationType.Text;
2 var annotationToolbarItems = PdfView.GetAnnotationToolbarItems(at);
3 annotationToolbarItems.Add(new ColorAnnotationToolbarItem());
4 await PdfView.SetAnnotationToolbarItemsAsync(at, annotationToolbarItems);
```

In some instances, you might want to configure how the chosen annotation toolbar looks or set it up in a particular order. To do this, create an `IList` of `IAnnotationToolbarItem` items and pass it to `PdfView.SetAnnotationToolbarItemsAsync`. The ordering of the buttons is determined by the order of the container:

```
1 AnnotationType at = AnnotationType.Text;
2 var defaultAnnotationToolbarItems = new List<IAnnotationToolbarItem>
3 {
4     new FontAnnotationToolbarItem(),
5     new SpacerAnnotationToolbarItem(),
```

```
6     new OpacityAnnotationToolbarItem(),
7     new SpacerAnnotationToolbarItem(),
8     new BackgroundColorAnnotationToolbarItem(),
9     new SpacerAnnotationToolbarItem(),
10    new DeleteAnnotationToolbarItem()
11 };
12 await PdfView.SetAnnotationToolbarItemsAsync(at, defaultAnnotationToolbarItems
```

Removing an annotation toolbar item

To remove an item from the annotation toolbar, use this code:

```
1  AnnotationType at = AnnotationType.Ink;
2  var annotationToolbarItems = PdfView.GetAnnotationToolbarItems(at);
3  annotationToolbarItems.RemoveAt(0);
4  await PdfView.SetAnnotationToolbarItemsAsync(at, annotationToolbarItems);
```

The code above removes the first item of the annotation toolbar (the item at the `0` position of the `annotationToolbarItems` list).

Extra logic can be applied to find the required item and remove it from the list before `SetAnnotationToolbarItemsAsync`.

Reordering the annotation toolbar items

The order of the toolbar items is determined by the order said item is inserted into the `annotationToolbarItems` list. This means that to reorder the annotation toolbar items, you have to reorder the items of the `annotationToolbarItems` list.

The following example shows how to randomly shuffle the items on the `Stamp` annotation toolbar:

```
1  AnnotationType at = AnnotationType.Stamp;
2  var annotationToolbarItems = PdfView.GetAnnotationToolbarItems(at);
3  var shuffledList = annotationToolbarItems.OrderBy(a => Guid.NewGuid()).ToList();
4  await PdfView.SetAnnotationToolbarItemsAsync(at, shuffledList);
```

Was this helpful?

✓ YES

✗ NO

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