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API Collection

Preview macros

Use Swift macros to create widget previews in Xcode.

Topics

Generating a widget preview

```
macro Preview<Widget, Provider>(String?, as: WidgetFamily, widget: () -> Widget, timelineProvider: () -> Provider)
```

Preview a widget with a static configuration, using the specified timeline provider.

```
macro Preview<Widget, Provider>(String?, as: WidgetFamily, using: Provider.Intent, widget: () -> Widget, timelineProvider: () -> Provider)
```

Preview a widget with an app intent configuration, using the specified timeline provider.

```
macro Preview<Widget, Provider>(String?, as: WidgetFamily, using: Provider.Intent, widget: () -> Widget, timelineProvider: () -> Provider)
```

Preview a widget with an intent configuration, using the specified timeline provider.

```
macro Preview<Widget>(String?, as: WidgetFamily, widget: () -> Widget, timeline: () async -> [any TimelineEntry])
```

Preview a timeline-style widget.

```
macro Preview<Widget, Entry>(String?, widget: () -> Widget, relevanceEntries: () async -> [Entry])
```

Preview a relevance configuration widget.

```
macro Preview<Widget, Provider>(String?, widget: () -> Widget,  
relevanceProvider: () -> Provider)
```

Preview a widget with a relevance configuration, using the specified relevance provider.

```
macro Preview<Widget, Provider>(String?, widget: () -> Widget,  
relevanceProvider: () -> Provider, relevance: () async -> Widget  
Relevance<Provider.Configuration>)
```

Preview a widget with a relevance configuration, using the specified relevances.

Generating a Live Activity preview

```
macro Preview<Widget, Attributes>(String?, as: ActivityPreviewViewKind,  
using: Attributes, widget: () -> Widget, contentStates: () async -> [  
Attributes.ContentState])
```

Preview a widget with an activity configuration, using the specified attributes and content states.

Generated structures

```
struct PreviewActivityBuilder
```

```
struct PreviewRelevanceEntryBuilder
```

A builder that allows you to construct a list of relevance entries to preview your widget.

```
struct PreviewTimelineBuilder
```

See Also

Previews and debugging

 Previewing widgets and Live Activities in Xcode

Use Xcode previews to iteratively develop, fine-tune, and troubleshoot widgets and Live Activities.

```
struct WidgetPreviewContext
```

A specification for the context of a widget preview.