# Image class

A widget that displays an image.

Several constructors are provided for the various ways that an image can be specified:

* [new Image](https://docs.flutter.io/flutter/widgets/Image/Image.html), for obtaining an image from an [ImageProvider](https://docs.flutter.io/flutter/painting/ImageProvider-class.html).
* [new Image.asset](https://docs.flutter.io/flutter/widgets/Image/Image.asset.html), for obtaining an image from an [AssetBundle](https://docs.flutter.io/flutter/services/AssetBundle-class.html) using a key.
* [new Image.network](https://docs.flutter.io/flutter/widgets/Image/Image.network.html), for obtaining an image from a URL.
* [new Image.file](https://docs.flutter.io/flutter/widgets/Image/Image.file.html), for obtaining an image from a [File](https://docs.flutter.io/flutter/dart-io/File-class.html).
* [new Image.memory](https://docs.flutter.io/flutter/widgets/Image/Image.memory.html), for obtaining an image from a [Uint8List](https://docs.flutter.io/flutter/dart-typed_data/Uint8List-class.html).

The following image formats are supported: JPEG, PNG, GIF, Animated GIF, WebP, Animated WebP, BMP, and WBMP

To automatically perform pixel-density-aware asset resolution, specify the image using an [AssetImage](https://docs.flutter.io/flutter/painting/AssetImage-class.html) and make sure that a [MaterialApp](https://docs.flutter.io/flutter/material/MaterialApp-class.html), [WidgetsApp](https://docs.flutter.io/flutter/widgets/WidgetsApp-class.html), or [MediaQuery](https://docs.flutter.io/flutter/widgets/MediaQuery-class.html) widget exists above the [Image](https://docs.flutter.io/flutter/widgets/Image-class.html) widget in the widget tree.

The image is painted using [paintImage](https://docs.flutter.io/flutter/painting/paintImage.html), which describes the meanings of the various fields on this class in more detail.

See also:

* [Icon](https://docs.flutter.io/flutter/widgets/Icon-class.html), which shows an image from a font.
* [new Ink.image](https://docs.flutter.io/flutter/material/Ink/Ink.image.html), which is the preferred way to show an image in a material application (especially if the image is in a [Material](https://docs.flutter.io/flutter/material/Material-class.html) and will have an [InkWell](https://docs.flutter.io/flutter/material/InkWell-class.html) on top of it).

Inheritance

* [Object](https://docs.flutter.io/flutter/dart-core/Object-class.html)
* [Diagnosticable](https://docs.flutter.io/flutter/foundation/Diagnosticable-class.html)
* [DiagnosticableTree](https://docs.flutter.io/flutter/foundation/DiagnosticableTree-class.html)
* [Widget](https://docs.flutter.io/flutter/widgets/Widget-class.html)
* [StatefulWidget](https://docs.flutter.io/flutter/widgets/StatefulWidget-class.html)
* Image

## Constructors

[**Image**](https://docs.flutter.io/flutter/widgets/Image/Image.html)({[Key](https://docs.flutter.io/flutter/foundation/Key-class.html) key, @required [ImageProvider](https://docs.flutter.io/flutter/painting/ImageProvider-class.html) image, [double](https://docs.flutter.io/flutter/dart-core/double-class.html) width, [double](https://docs.flutter.io/flutter/dart-core/double-class.html) height, [Color](https://docs.flutter.io/flutter/dart-ui/Color-class.html) color, [BlendMode](https://docs.flutter.io/flutter/dart-ui/BlendMode-class.html) colorBlendMode, [BoxFit](https://docs.flutter.io/flutter/painting/BoxFit-class.html) fit, [AlignmentGeometry](https://docs.flutter.io/flutter/painting/AlignmentGeometry-class.html) alignment: Alignment.center, [ImageRepeat](https://docs.flutter.io/flutter/painting/ImageRepeat-class.html) repeat: ImageRepeat.noRepeat, [Rect](https://docs.flutter.io/flutter/dart-ui/Rect-class.html) centerSlice, [bool](https://docs.flutter.io/flutter/dart-core/bool-class.html) matchTextDirection: false, [bool](https://docs.flutter.io/flutter/dart-core/bool-class.html) gaplessPlayback: false })

Creates a widget that displays an image. [[...]](https://docs.flutter.io/flutter/widgets/Image/Image.html)

*const*

[**Image.asset**](https://docs.flutter.io/flutter/widgets/Image/Image.asset.html)([String](https://docs.flutter.io/flutter/dart-core/String-class.html) name, { [Key](https://docs.flutter.io/flutter/foundation/Key-class.html) key, [AssetBundle](https://docs.flutter.io/flutter/services/AssetBundle-class.html) bundle, [double](https://docs.flutter.io/flutter/dart-core/double-class.html) scale, [double](https://docs.flutter.io/flutter/dart-core/double-class.html) width, [double](https://docs.flutter.io/flutter/dart-core/double-class.html) height, [Color](https://docs.flutter.io/flutter/dart-ui/Color-class.html) color, [BlendMode](https://docs.flutter.io/flutter/dart-ui/BlendMode-class.html) colorBlendMode, [BoxFit](https://docs.flutter.io/flutter/painting/BoxFit-class.html) fit, [AlignmentGeometry](https://docs.flutter.io/flutter/painting/AlignmentGeometry-class.html) alignment: Alignment.center, [ImageRepeat](https://docs.flutter.io/flutter/painting/ImageRepeat-class.html) repeat: ImageRepeat.noRepeat, [Rect](https://docs.flutter.io/flutter/dart-ui/Rect-class.html) centerSlice, [bool](https://docs.flutter.io/flutter/dart-core/bool-class.html) matchTextDirection: false, [bool](https://docs.flutter.io/flutter/dart-core/bool-class.html) gaplessPlayback: false, [String](https://docs.flutter.io/flutter/dart-core/String-class.html) package })

Creates a widget that displays an [ImageStream](https://docs.flutter.io/flutter/painting/ImageStream-class.html) obtained from an asset bundle. The key for the image is given by the nameargument. [[...]](https://docs.flutter.io/flutter/widgets/Image/Image.asset.html)

[**Image.file**](https://docs.flutter.io/flutter/widgets/Image/Image.file.html)([File](https://docs.flutter.io/flutter/dart-io/File-class.html) file, { [Key](https://docs.flutter.io/flutter/foundation/Key-class.html) key, [double](https://docs.flutter.io/flutter/dart-core/double-class.html) scale: 1.0, [double](https://docs.flutter.io/flutter/dart-core/double-class.html) width, [double](https://docs.flutter.io/flutter/dart-core/double-class.html) height, [Color](https://docs.flutter.io/flutter/dart-ui/Color-class.html) color, [BlendMode](https://docs.flutter.io/flutter/dart-ui/BlendMode-class.html) colorBlendMode, [BoxFit](https://docs.flutter.io/flutter/painting/BoxFit-class.html) fit, [AlignmentGeometry](https://docs.flutter.io/flutter/painting/AlignmentGeometry-class.html) alignment: Alignment.center, [ImageRepeat](https://docs.flutter.io/flutter/painting/ImageRepeat-class.html) repeat: ImageRepeat.noRepeat, [Rect](https://docs.flutter.io/flutter/dart-ui/Rect-class.html) centerSlice, [bool](https://docs.flutter.io/flutter/dart-core/bool-class.html) matchTextDirection: false, [bool](https://docs.flutter.io/flutter/dart-core/bool-class.html) gaplessPlayback: false })

Creates a widget that displays an [ImageStream](https://docs.flutter.io/flutter/painting/ImageStream-class.html) obtained from a [File](https://docs.flutter.io/flutter/dart-io/File-class.html). [[...]](https://docs.flutter.io/flutter/widgets/Image/Image.file.html)

[**Image.memory**](https://docs.flutter.io/flutter/widgets/Image/Image.memory.html)([Uint8List](https://docs.flutter.io/flutter/dart-typed_data/Uint8List-class.html) bytes, { [Key](https://docs.flutter.io/flutter/foundation/Key-class.html) key, [double](https://docs.flutter.io/flutter/dart-core/double-class.html) scale: 1.0, [double](https://docs.flutter.io/flutter/dart-core/double-class.html) width, [double](https://docs.flutter.io/flutter/dart-core/double-class.html) height, [Color](https://docs.flutter.io/flutter/dart-ui/Color-class.html) color, [BlendMode](https://docs.flutter.io/flutter/dart-ui/BlendMode-class.html) colorBlendMode, [BoxFit](https://docs.flutter.io/flutter/painting/BoxFit-class.html) fit, [AlignmentGeometry](https://docs.flutter.io/flutter/painting/AlignmentGeometry-class.html) alignment: Alignment.center, [ImageRepeat](https://docs.flutter.io/flutter/painting/ImageRepeat-class.html) repeat: ImageRepeat.noRepeat, [Rect](https://docs.flutter.io/flutter/dart-ui/Rect-class.html) centerSlice, [bool](https://docs.flutter.io/flutter/dart-core/bool-class.html) matchTextDirection: false, [bool](https://docs.flutter.io/flutter/dart-core/bool-class.html) gaplessPlayback: false })

Creates a widget that displays an [ImageStream](https://docs.flutter.io/flutter/painting/ImageStream-class.html) obtained from a [Uint8List](https://docs.flutter.io/flutter/dart-typed_data/Uint8List-class.html). [[...]](https://docs.flutter.io/flutter/widgets/Image/Image.memory.html)

[**Image.network**](https://docs.flutter.io/flutter/widgets/Image/Image.network.html)([String](https://docs.flutter.io/flutter/dart-core/String-class.html) src, { [Key](https://docs.flutter.io/flutter/foundation/Key-class.html) key, [double](https://docs.flutter.io/flutter/dart-core/double-class.html) scale: 1.0, [double](https://docs.flutter.io/flutter/dart-core/double-class.html) width, [double](https://docs.flutter.io/flutter/dart-core/double-class.html) height, [Color](https://docs.flutter.io/flutter/dart-ui/Color-class.html) color, [BlendMode](https://docs.flutter.io/flutter/dart-ui/BlendMode-class.html) colorBlendMode, [BoxFit](https://docs.flutter.io/flutter/painting/BoxFit-class.html) fit, [AlignmentGeometry](https://docs.flutter.io/flutter/painting/AlignmentGeometry-class.html) alignment: Alignment.center, [ImageRepeat](https://docs.flutter.io/flutter/painting/ImageRepeat-class.html) repeat: ImageRepeat.noRepeat, [Rect](https://docs.flutter.io/flutter/dart-ui/Rect-class.html) centerSlice, [bool](https://docs.flutter.io/flutter/dart-core/bool-class.html) matchTextDirection: false, [bool](https://docs.flutter.io/flutter/dart-core/bool-class.html) gaplessPlayback: false, [Map](https://docs.flutter.io/flutter/dart-core/Map-class.html)<[String](https://docs.flutter.io/flutter/dart-core/String-class.html), [String](https://docs.flutter.io/flutter/dart-core/String-class.html)> headers })

Creates a widget that displays an [ImageStream](https://docs.flutter.io/flutter/painting/ImageStream-class.html) obtained from the network. [[...]](https://docs.flutter.io/flutter/widgets/Image/Image.network.html)

## Properties

[**alignment**](https://docs.flutter.io/flutter/widgets/Image/alignment.html) → [AlignmentGeometry](https://docs.flutter.io/flutter/painting/AlignmentGeometry-class.html)

How to align the image within its bounds. [[...]](https://docs.flutter.io/flutter/widgets/Image/alignment.html)

*final*

[**centerSlice**](https://docs.flutter.io/flutter/widgets/Image/centerSlice.html) → [Rect](https://docs.flutter.io/flutter/dart-ui/Rect-class.html)

The center slice for a nine-patch image. [[...]](https://docs.flutter.io/flutter/widgets/Image/centerSlice.html)

*final*

[**color**](https://docs.flutter.io/flutter/widgets/Image/color.html) → [Color](https://docs.flutter.io/flutter/dart-ui/Color-class.html)

If non-null, this color is blended with each image pixel using colorBlendMode.

*final*

[**colorBlendMode**](https://docs.flutter.io/flutter/widgets/Image/colorBlendMode.html) → [BlendMode](https://docs.flutter.io/flutter/dart-ui/BlendMode-class.html)

Used to combine color with this image. [[...]](https://docs.flutter.io/flutter/widgets/Image/colorBlendMode.html)

*final*

[**fit**](https://docs.flutter.io/flutter/widgets/Image/fit.html) → [BoxFit](https://docs.flutter.io/flutter/painting/BoxFit-class.html)

How to inscribe the image into the space allocated during layout. [[...]](https://docs.flutter.io/flutter/widgets/Image/fit.html)

*final*

[**gaplessPlayback**](https://docs.flutter.io/flutter/widgets/Image/gaplessPlayback.html) → [bool](https://docs.flutter.io/flutter/dart-core/bool-class.html)

Whether to continue showing the old image (true), or briefly show nothing (false), when the image provider changes.

*final*

[**height**](https://docs.flutter.io/flutter/widgets/Image/height.html) → [double](https://docs.flutter.io/flutter/dart-core/double-class.html)

If non-null, require the image to have this height. [[...]](https://docs.flutter.io/flutter/widgets/Image/height.html)

*final*

[**image**](https://docs.flutter.io/flutter/widgets/Image/image.html) → [ImageProvider](https://docs.flutter.io/flutter/painting/ImageProvider-class.html)

The image to display.

*final*

[**matchTextDirection**](https://docs.flutter.io/flutter/widgets/Image/matchTextDirection.html) → [bool](https://docs.flutter.io/flutter/dart-core/bool-class.html)

Whether to paint the image in the direction of the TextDirection. [[...]](https://docs.flutter.io/flutter/widgets/Image/matchTextDirection.html)

*final*

[**repeat**](https://docs.flutter.io/flutter/widgets/Image/repeat.html) → [ImageRepeat](https://docs.flutter.io/flutter/painting/ImageRepeat-class.html)

How to paint any portions of the layout bounds not covered by the image.

*final*

[**width**](https://docs.flutter.io/flutter/widgets/Image/width.html) → [double](https://docs.flutter.io/flutter/dart-core/double-class.html)

If non-null, require the image to have this width. [[...]](https://docs.flutter.io/flutter/widgets/Image/width.html)

*final*

[*hashCode*](https://docs.flutter.io/flutter/dart-core/Object/hashCode.html) → [int](https://docs.flutter.io/flutter/dart-core/int-class.html)

The hash code for this object. [[...]](https://docs.flutter.io/flutter/dart-core/Object/hashCode.html)

*read-only, inherited*

[*key*](https://docs.flutter.io/flutter/widgets/Widget/key.html) → [Key](https://docs.flutter.io/flutter/foundation/Key-class.html)

Controls how one widget replaces another widget in the tree. [[...]](https://docs.flutter.io/flutter/widgets/Widget/key.html)

*final, inherited*

[*runtimeType*](https://docs.flutter.io/flutter/dart-core/Object/runtimeType.html) → [Type](https://docs.flutter.io/flutter/dart-core/Type-class.html)

A representation of the runtime type of the object.

*read-only, inherited*

## Methods

[**createState**](https://docs.flutter.io/flutter/widgets/Image/createState.html)( → \_ImageState

Creates the mutable state for this widget at a given location in the tree. [[...]](https://docs.flutter.io/flutter/widgets/Image/createState.html)

[**debugFillProperties**](https://docs.flutter.io/flutter/widgets/Image/debugFillProperties.html)([DiagnosticPropertiesBuilder](https://docs.flutter.io/flutter/foundation/DiagnosticPropertiesBuilder-class.html) properties) → void

[*createElement*](https://docs.flutter.io/flutter/widgets/StatefulWidget/createElement.html)( → [StatefulElement](https://docs.flutter.io/flutter/widgets/StatefulElement-class.html)

Creates a [StatefulElement](https://docs.flutter.io/flutter/widgets/StatefulElement-class.html) to manage this widget's location in the tree. [[...]](https://docs.flutter.io/flutter/widgets/StatefulWidget/createElement.html)

*inherited*

[*debugDescribeChildren*](https://docs.flutter.io/flutter/foundation/DiagnosticableTree/debugDescribeChildren.html)( → [List](https://docs.flutter.io/flutter/dart-core/List-class.html)<[DiagnosticsNode](https://docs.flutter.io/flutter/foundation/DiagnosticsNode-class.html)>

Returns a list of [DiagnosticsNode](https://docs.flutter.io/flutter/foundation/DiagnosticsNode-class.html) objects describing this node's children. [[...]](https://docs.flutter.io/flutter/foundation/DiagnosticableTree/debugDescribeChildren.html)

*@protected, inherited*

[*noSuchMethod*](https://docs.flutter.io/flutter/dart-core/Object/noSuchMethod.html)([Invocation](https://docs.flutter.io/flutter/dart-core/Invocation-class.html) invocation) → dynamic

Invoked when a non-existent method or property is accessed. [[...]](https://docs.flutter.io/flutter/dart-core/Object/noSuchMethod.html)

*inherited*

[*toDiagnosticsNode*](https://docs.flutter.io/flutter/foundation/DiagnosticableTree/toDiagnosticsNode.html)([String](https://docs.flutter.io/flutter/dart-core/String-class.html) name, [DiagnosticsTreeStyle](https://docs.flutter.io/flutter/foundation/DiagnosticsTreeStyle-class.html) style }) → [DiagnosticsNode](https://docs.flutter.io/flutter/foundation/DiagnosticsNode-class.html)

Returns a debug representation of the object that is used by debugging tools and by [toStringDeep](https://docs.flutter.io/flutter/foundation/DiagnosticableTree/toStringDeep.html). [[...]](https://docs.flutter.io/flutter/foundation/DiagnosticableTree/toDiagnosticsNode.html)

*inherited*

[*toString*](https://docs.flutter.io/flutter/foundation/Diagnosticable/toString.html)([DiagnosticLevel](https://docs.flutter.io/flutter/foundation/DiagnosticLevel-class.html) minLevel: DiagnosticLevel.debug }) → [String](https://docs.flutter.io/flutter/dart-core/String-class.html)

Returns a string representation of this object.

*inherited*

[*toStringDeep*](https://docs.flutter.io/flutter/foundation/DiagnosticableTree/toStringDeep.html)([String](https://docs.flutter.io/flutter/dart-core/String-class.html) prefixLineOne: '', [String](https://docs.flutter.io/flutter/dart-core/String-class.html) prefixOtherLines, [DiagnosticLevel](https://docs.flutter.io/flutter/foundation/DiagnosticLevel-class.html) minLevel: DiagnosticLevel.debug }) → [String](https://docs.flutter.io/flutter/dart-core/String-class.html)

Returns a string representation of this node and its descendants. [[...]](https://docs.flutter.io/flutter/foundation/DiagnosticableTree/toStringDeep.html)

*inherited*

[*toStringShallow*](https://docs.flutter.io/flutter/foundation/DiagnosticableTree/toStringShallow.html)([String](https://docs.flutter.io/flutter/dart-core/String-class.html) joiner: ', ', [DiagnosticLevel](https://docs.flutter.io/flutter/foundation/DiagnosticLevel-class.html) minLevel: DiagnosticLevel.debug }) → [String](https://docs.flutter.io/flutter/dart-core/String-class.html)

Returns a one-line detailed description of the object. [[...]](https://docs.flutter.io/flutter/foundation/DiagnosticableTree/toStringShallow.html)

*inherited*

[*toStringShort*](https://docs.flutter.io/flutter/widgets/Widget/toStringShort.html)( → [String](https://docs.flutter.io/flutter/dart-core/String-class.html)

A short, textual description of this widget.

*inherited*

## Operators

[*operator ==*](https://docs.flutter.io/flutter/dart-core/Object/operator_equals.html)(dynamic other) → [bool](https://docs.flutter.io/flutter/dart-core/bool-class.html)

The equality operator. [[...]](https://docs.flutter.io/flutter/dart-core/Object/operator_equals.html)

*inherited*