

```
Discover Packages > Standard library > image > gif □
aif (
      package
                 standard library
Version: go1.20.1 Latest
                            Published: Feb 14, 2023 | License: BSD-3-Clause | Imports: 10
Imported by: 3,988
Details

    ✓ Valid go.mod file ②

    ✓ Tagged version ?

              Stable version ??
              Learn more
Repository
              cs.opensource.google/go/go
Links
              Report a Vulnerability
 :≡ Documentation
```

Ocumentation

Overview

Package gif implements a GIF image decoder and encoder.

The GIF specification is at https://www.w3.org/Graphics/GIF/spec-gif89a.txt.

Index

```
Constants
```

```
func Decode(r io.Reader) (image.Image, error)
func DecodeConfig(r io.Reader) (image.Config, error)
func Encode(w io.Writer, m image.Image, o *Options) error
func EncodeAll(w io.Writer, g *GIF) error
type GIF
func DecodeAll(r io.Reader) (*GIF, error)
type Options
```

Constants

```
const (
   DisposalNone = 0x01
   DisposalBackground = 0x02
   DisposalPrevious = 0x03
)
```

Disposal Methods.

Variables

This section is empty.

Functions

func Decode

```
func Decode(r io.Reader) (image.Image, error)
```

Decode reads a GIF image from r and returns the first embedded image as an image. Image.

func DecodeConfig

```
func DecodeConfig(r io.Reader) (image.Config, error)
```

DecodeConfig returns the global color model and dimensions of a GIF image without decoding the entire image.

func Encode added in go1.2

```
func Encode(w io.Writer, m image.Image, o *Options) error
```

Encode writes the Image m to w in GIF format.

func EncodeAll added in go1.2

```
func EncodeAll(w io.Writer, g *GIF) error
```

EncodeAll writes the images in g to w in GIF format with the given loop count and delay between frames.

Types

type GIF

```
// specified).
   Disposal []byte
    // Config is the global color table (palette), width and height. A nil or
   // empty-color.Palette Config.ColorModel means that each frame has its own
   // color table and there is no global color table. Each frame's bounds must
    // be within the rectangle defined by the two points (0, 0) and
    // (Config.Width, Config.Height).
    //
   // For backwards compatibility, a zero-valued Config is valid to pass to
   // EncodeAll, and implies that the overall GIF's width and height equals
   // the first frame's bounds' Rectangle.Max point.
   Config image.Config
    // BackgroundIndex is the background index in the global color table, for
   // use with the DisposalBackground disposal method.
   BackgroundIndex byte
}
```

GIF represents the possibly multiple images stored in a GIF file.

func DecodeAll

```
func DecodeAll(r io.Reader) (*GIF, error)
```

DecodeAll reads a GIF image from r and returns the sequential frames and timing information.

type Options added in go1.2

```
type Options struct {
    // NumColors is the maximum number of colors used in the image.
    // It ranges from 1 to 256.
    NumColors int

// Quantizer is used to produce a palette with size NumColors.
    // palette.Plan9 is used in place of a nil Quantizer.
    Quantizer draw.Quantizer

// Drawer is used to convert the source image to the desired palette.
    // draw.FloydSteinberg is used in place of a nil Drawer.
    Drawer draw.Drawer
}
```

Options are the encoding parameters.

Source Files

View all <a>□

reader.go

Why Go Get Started Packages About **Use Cases** Playground Standard Library Download **Case Studies** Tour About Go Packages Blog Stack Overflow Issue Tracker Help Release Notes **Brand Guidelines** Code of Conduct Connect Twitter GitHub Slack r/golang Meetup Golang Weekly

Copyright

Terms of Service

Privacy Policy

Report an Issue







