



Ocumentation

Overview

Package draw provides image composition functions.

See "The Go image/draw package" for an introduction to this package:

https://golang.org/doc/articles/image_draw.html

Index

func Draw(dst Image, r image.Rectangle, src image.Image, sp image.Point, op Op)

func DrawMask(dst Image, r image.Rectangle, src image.Image, sp image.Point, ...)

type Drawer

type Image

type Op

func (op Op) Draw(dst Image, r image.Rectangle, src image.Image, sp image.Point)

type Quantizer

type RGBA64Image

Examples

Drawer (FloydSteinberg)

Constants

This section is empty.

Variables

This section is empty.

Functions

func Draw

```
func Draw(dst Image, r image.Rectangle, src image.Image, sp image.Point, op Op)
```

Draw calls DrawMask with a nil mask.

func DrawMask

```
func DrawMask(dst Image, r image.Rectangle, src image.Image, sp image.Point, mask imag
e.Image, mp image.Point, op Op)
```

DrawMask aligns r.Min in dst with sp in src and mp in mask and then replaces the rectangle r in dst with the result of a Porter-Duff composition. A nil mask is treated as opaque.

Types

type Drawer added in go1.2

```
type Drawer interface {
    // Draw aligns r.Min in dst with sp in src and then replaces the
    // rectangle r in dst with the result of drawing src on dst.
    Draw(dst Image, r image.Rectangle, src image.Image, sp image.Point)
}
```

Drawer contains the Draw method.

Example (FloydSteinberg)

```
var FloydSteinberg Drawer = floydSteinberg{}
```

FloydSteinberg is a Drawer that is the Src Op with Floyd-Steinberg error diffusion.

type Image

```
type Image interface {
   image.Image
   Set(x, y int, c color.Color)
}
```

Image is an image. Image with a Set method to change a single pixel.

type Op

```
type Op int
```

Op is a Porter-Duff compositing operator.

```
const (
    // Over specifies "(src in mask) over dst".
    Over Op = iota
    // Src specifies "src in mask".
    Src
)
```

func (Op) Draw added in go1.2

```
func (op Op) Draw(dst Image, r image.Rectangle, src image.Image, sp image.Point)
```

Draw implements the Drawer interface by calling the Draw function with this Op.

type Quantizer added in go1.2

```
type Quantizer interface {
    // Quantize appends up to cap(p) - len(p) colors to p and returns the
    // updated palette suitable for converting m to a paletted image.
    Quantize(p color.Palette, m image.Image) color.Palette
}
```

Quantizer produces a palette for an image.

type RGBA64Image

added in go1.17

```
type RGBA64Image interface {
   image.RGBA64Image
   Set(x, y int, c color.Color)
   SetRGBA64(x, y int, c color.RGBA64)
}
```

RGBA64Image extends both the Image and image.RGBA64Image interfaces with a SetRGBA64 method to change a single pixel. SetRGBA64 is equivalent to calling Set, but it can avoid allocations from converting concrete color types to the color.Color interface type.

Source Files

View all ☑

draw.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







