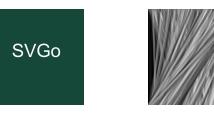
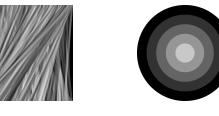
SVGo Examples

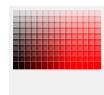


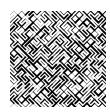




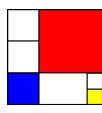


concentric2.go











colorhash.go

rl.go

concentric.go

cgrid.go

diag.go

shining.go

mondrian.go richter.go



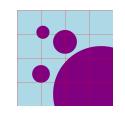
















eclipse.go

pacman.go

pyramid.go cloud.go

color-clouds.go

creepy.go

d4h.go

sunearth.go conception.go

conception2.go

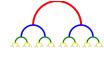




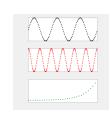
















randbox.go

randspot.go

cube.go

schotter.go

randarc.go

recurse.go

clock.go

plotfunc.go

therm.go

pattern.go



starx.go



gradient.go

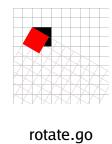


fontrange.go

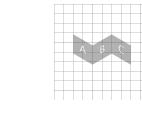
uni.go



lorem.go







skewabc.go

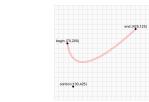


gear.go



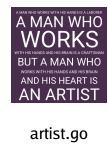
star.go

marker.go



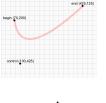








go.go



swoosh.go textpath.go



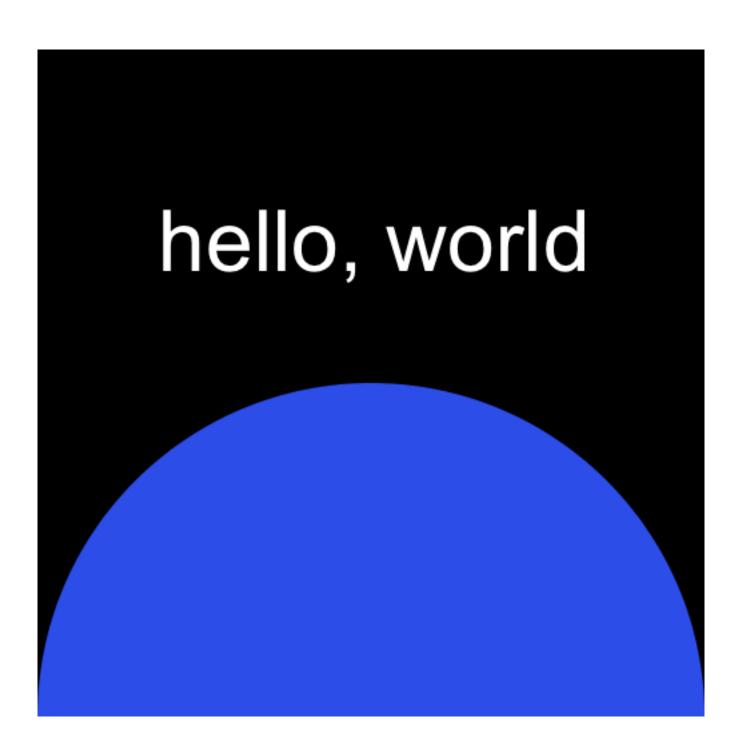
fe.go

```
package main
import (
    "os"

    "github.com/ajstarks/svgo"
)

var (
    canvas = svg.New(os.Stdout)
    width = 500
    height = 500
)

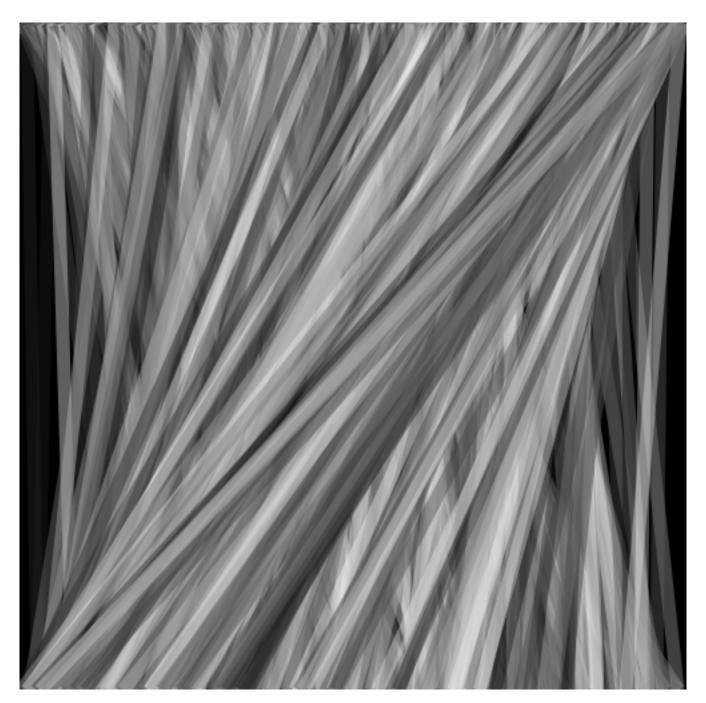
func main() {
    style := "fill:white;font-size:48pt;text-anchor:middle"
    canvas.Start(width, height)
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height)
    canvas.Circle(width/2, height, width/2, "fill:rgb(44, 77, 232)")
    canvas.Text(width/2, height/3, "hello, world", style)
    canvas.End()
```



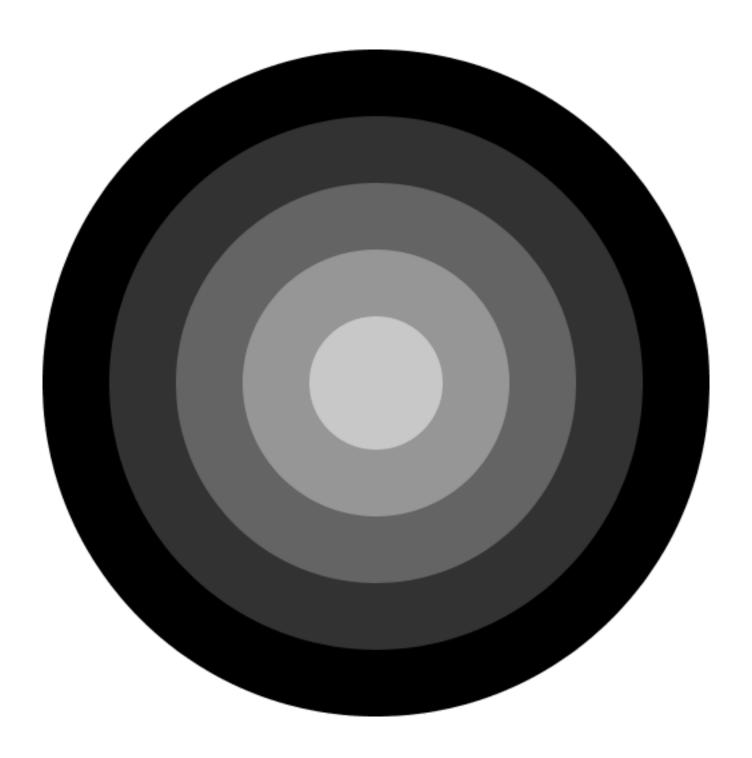
```
package main
import (
    "crypto/md5"
    "os"
    "github.com/ajstarks/svgo"
var (
    canvas = svg.New(os.Stdout)
    width = 500
   height = 500
func colorhash(s string) (int, int, int) {
    hash := md5.New()
    hash.Write([]byte(s))
    v := hash.Sum(nil)
    return int(v[0]), int(v[1]), int(v[2])
}
func main() {
   name := "SVGo"
    style := "fill:white;text-anchor:middle;font-size:72pt"
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height, canvas.RGB(colorhash(name)))
    canvas.Text(width/2, height/2, name, style)
    canvas.End()
```



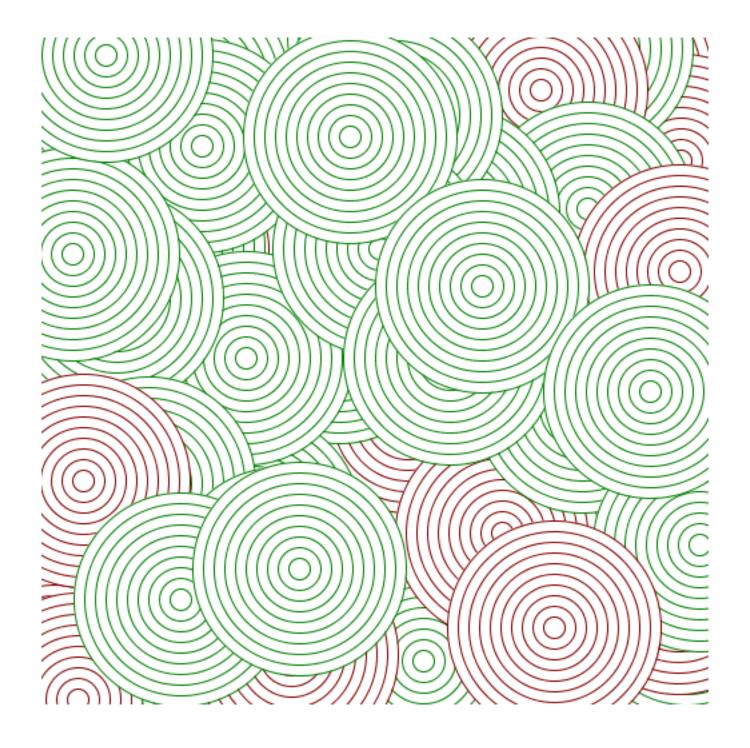
```
package main
import (
    "fmt"
    "math/rand"
    "os"
    "time"
    "github.com/ajstarks/svgo"
var (
    canvas = svg.New(os.Stdout)
    width = 500
   height = 500
func main() {
    rand.Seed(time.Now().Unix())
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height)
    canvas.Gstyle("stroke-width:10")
    for i := 0; i < width; i++ {
        r := rand.Intn(255)
        canvas.Line(i, 0, rand.Intn(width), height,
            fmt.Sprintf("stroke:rgb(%d,%d,%d); opacity:0.39", r, r, r))
    canvas.Gend()
    canvas.End()
```



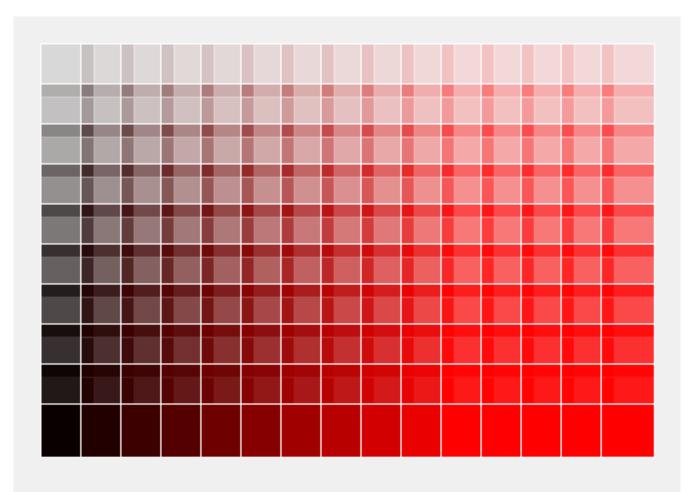
```
package main
import (
    "os"
    "github.com/ajstarks/svgo"
)
var (
    canvas = svg.New(os.Stdout)
    width = 500
   height = 500
func main() {
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height, "fill:white")
   r := height / 2
    for g := 0; g < 250; g += 50 {
        canvas.Circle(width/2, width/2, r, canvas.RGB(g, g, g))
       r -= 50
    canvas.End()
```



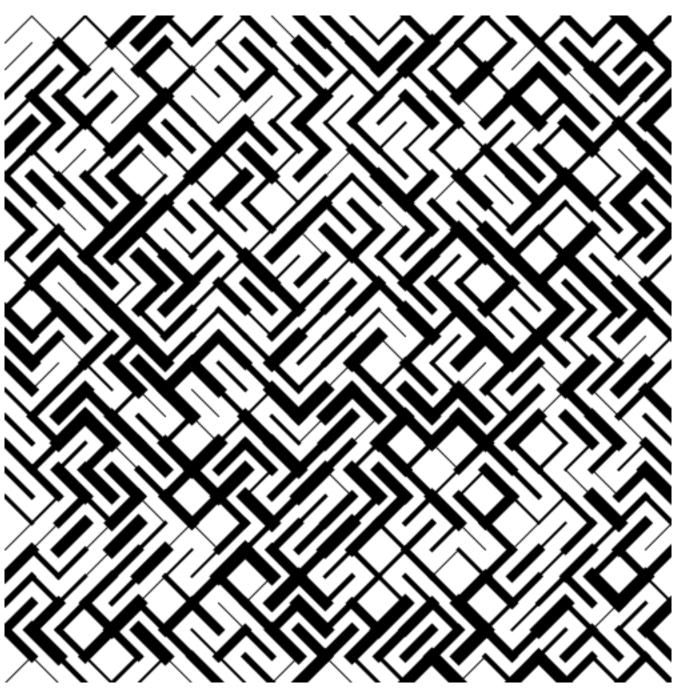
```
package main
import (
    "math/rand"
    "os"
    "github.com/ajstarks/svgo"
var (
    canvas = svg.New(os.Stdout)
    width = 500
   height = 500
func main() {
    canvas.Start(width, height)
    canvas.Gstyle("fill:white")
    var color string
    radius := 80
    step := 8
    for i := 0; i < 200; i++ {
        if i%4 == 0 {
            color = "rgb(127,0,0)"
        } else {
            color = "rgb(0,127,0)"
        }
        x, y := rand.Intn(width), rand.Intn(height)
        for r, nc := radius, 0; nc < 10; nc++ {
            canvas.Circle(x, y, r, "stroke:"+color)
            r -= step
        }
    canvas.Gend()
    canvas.End()
```



```
package main
import (
    "os"
    "github.com/ajstarks/svgo"
)
var (
    canvas = svg.New(os.Stdout)
    width = 500
   height = 500
)
func main() {
   y := 20
   v := 10
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height, "fill:rgb(240,240,240)")
    canvas.Gstyle("stroke:white")
    for x := 20; x < 450; x += 30 {
        op := 0.1
        for i := 0; i < 100; i += 10 {
            canvas.Square(x, y, 20*2, canvas.RGBA(v, 0, 0, op))
            y += 30
            op += 0.1
       y = 20
        v += 25
    canvas.Gend()
    canvas.End()
```



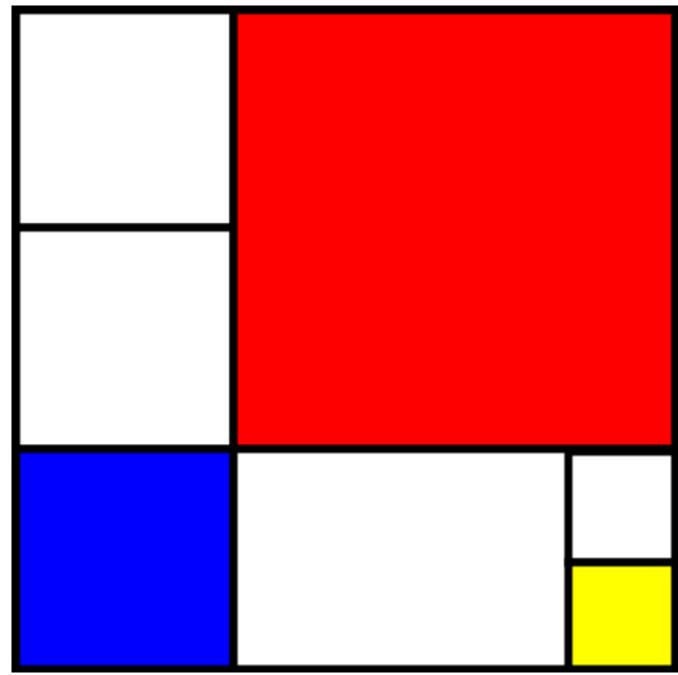
```
package main
import (
    "fmt"
    "math/rand"
    "os"
    "time"
    "github.com/ajstarks/svgo"
var (
    canvas = svg.New(os.Stdout)
    width = 500
    height = 500
func main() {
    tiles, maxstroke := 25, 10
    rand.Seed(time.Now().Unix())
    canvas.Start(width, height)
    linecaps := []string{"butt", "round", "square"}
    strokefmt := "stroke-width:%d"
    lcfmt := "stroke:black;stroke-linecap:%s"
    canvas.Gstyle(fmt.Sprintf(lcfmt, linecaps[rand.Intn(3)]))
    var sw string
    for y := 0; y < tiles; y++ {
        for x := 0; x < tiles; x++ \{
            px := width / tiles * x
            py := height / tiles * y
            if rand.Intn(100) > 50 {
                sw = fmt.Sprintf(strokefmt, rand.Intn(maxstroke)+1)
                canvas.Line(px, py, px+width/tiles, py+height/tiles, sw)
            } else {
                sw = fmt.Sprintf(strokefmt, rand.Intn(maxstroke)+1)
                canvas.Line(px, py+height/tiles, px+width/tiles, py, sw)
            }
        }
    canvas.Gend()
    canvas.End()
```



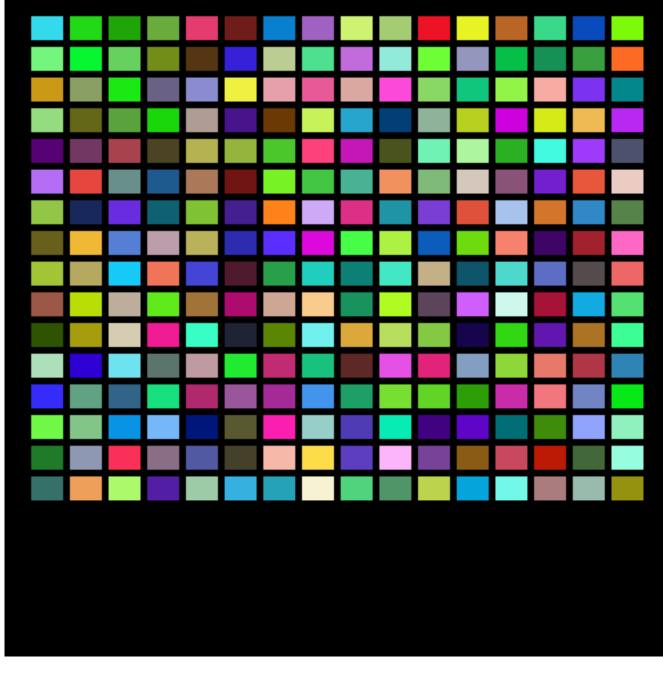
```
package main
import (
    "fmt"
    "github.com/ajstarks/svgo"
    "os"
)
func main() {
   xp := []int{50, 70, 70, 50, 30, 30}
    yp := []int{40, 50, 75, 85, 75, 50}
   xl := []int{0, 0, 50, 100, 100}
    yl := []int{100, 40, 10, 40, 100}
    bgcolor := "rgb(227,78,25)"
    bkcolor := "rgb(153,29,40)"
    stcolor := "rgb(65,52,44)"
    stwidth := 12
    stylefmt := "stroke:%s;stroke-width:%d;fill:%s"
    canvas := svg.New(os.Stdout)
    width, height := 500, 500
    canvas.Start(width, height)
    canvas.Def()
    canvas.Gid("unit")
    canvas.Polyline(xl, yl, "fill:none")
    canvas.Polygon(xp, yp)
    canvas.Gend()
    canvas.Gid("runit")
    canvas.TranslateRotate(150, 180, 180)
    canvas.Use(0, 0, "#unit")
    canvas.Gend()
    canvas.Gend()
    canvas.DefEnd()
    canvas.Rect(0, 0, width, height, "fill:"+bgcolor)
    canvas.Gstyle(fmt.Sprintf(stylefmt, stcolor, stwidth, bkcolor))
    for y := 0; y < height; y += 130 {
        for x := -50; x < width; x += 100 {
            canvas.Use(x, y, "#unit")
            canvas.Use(x, y, "#runit")
        }
    canvas.Gend()
    canvas.End()
```



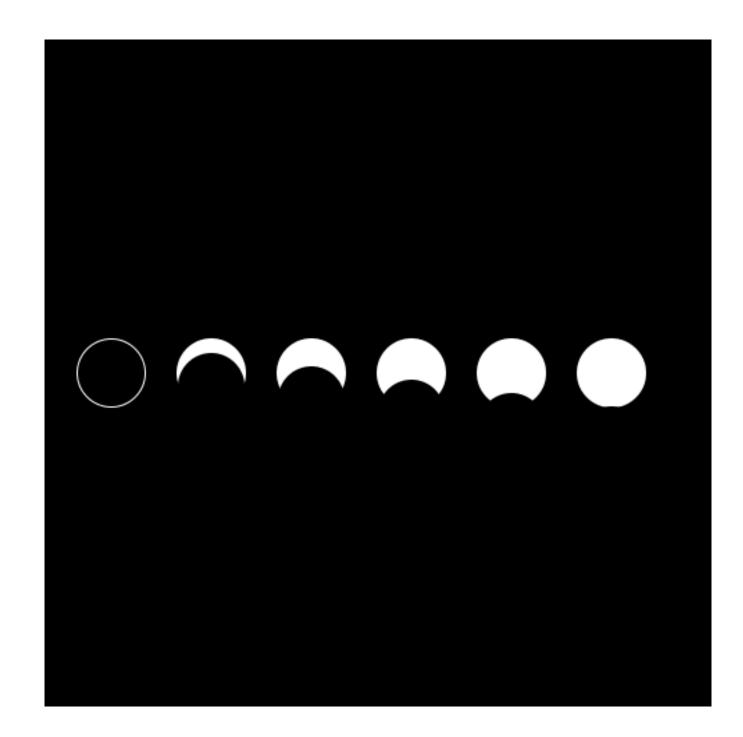
```
package main
import (
    "os"
    "github.com/ajstarks/svgo"
var (
    canvas = svg.New(os.Stdout)
    width = 500
   height = 500
)
// Piet Mondrian - Composition in Red, Blue, and Yellow
func main() {
    w3 := width / 3
    w6 := w3 / 2
    w23 := w3 * 2
    canvas.Start(width, height)
    canvas.Gstyle("stroke:black;stroke-width:6")
    canvas.Rect(0, 0, w3, w3, "fill:white")
    canvas.Rect(0, w3, w3, w3, "fill:white")
    canvas.Rect(0, w23, w3, w3, "fill:blue")
    canvas.Rect(w3, 0, w23, w23, "fill:red")
    canvas.Rect(w3, w23, w23, w3, "fill:white")
    canvas.Rect(width-w6, height-w3, w3-w6, w6, "fill:white")
    canvas.Rect(width-w6, height-w6, w3-w6, w6, "fill:yellow")
    canvas.Gend()
    canvas.Rect(0, 0, width, height, "fill:none;stroke:black;stroke-width:12")
    canvas.End()
```



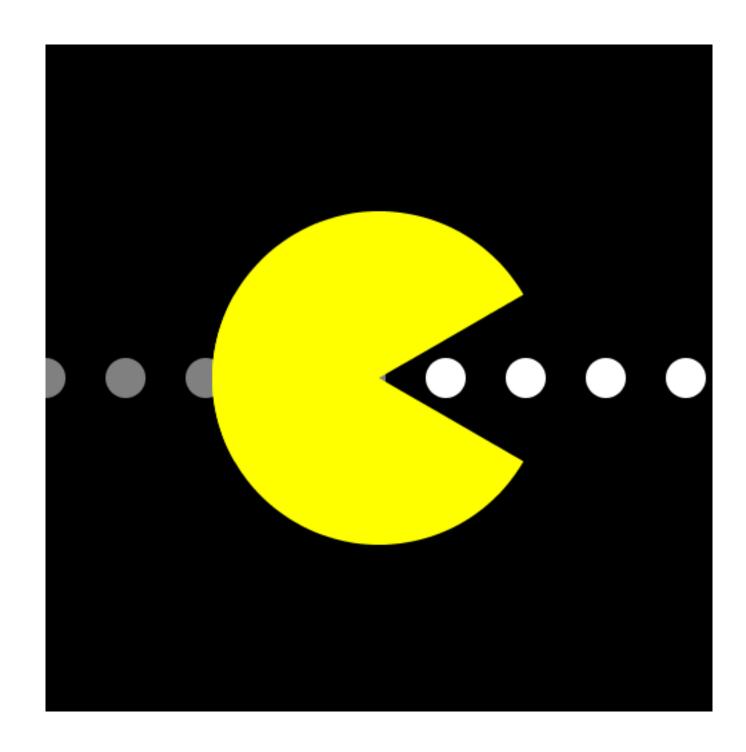
```
package main
import (
    "math/rand"
    "os"
    "time"
    "github.com/ajstarks/svgo"
var (
    canvas = svg.New(os.Stdout)
    width = 500
   height = 500
// inspired by Gerhard Richter's 256 colors, 1974
func main() {
    rand.Seed(time.Now().Unix())
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height)
    w, h, gutter := 24, 18, 5
   rows, cols := 16, 16
    top, left := 20, 20
    for r, x := 0, left; r < rows; r++ {
       for c, y := 0, top; c < cols; c++ {
           canvas.Rect(x, y, w, h,
               canvas.RGB(rand.Intn(255), rand.Intn(255))
           y += (h + gutter)
       }
       x += (w + gutter)
    canvas.End()
```



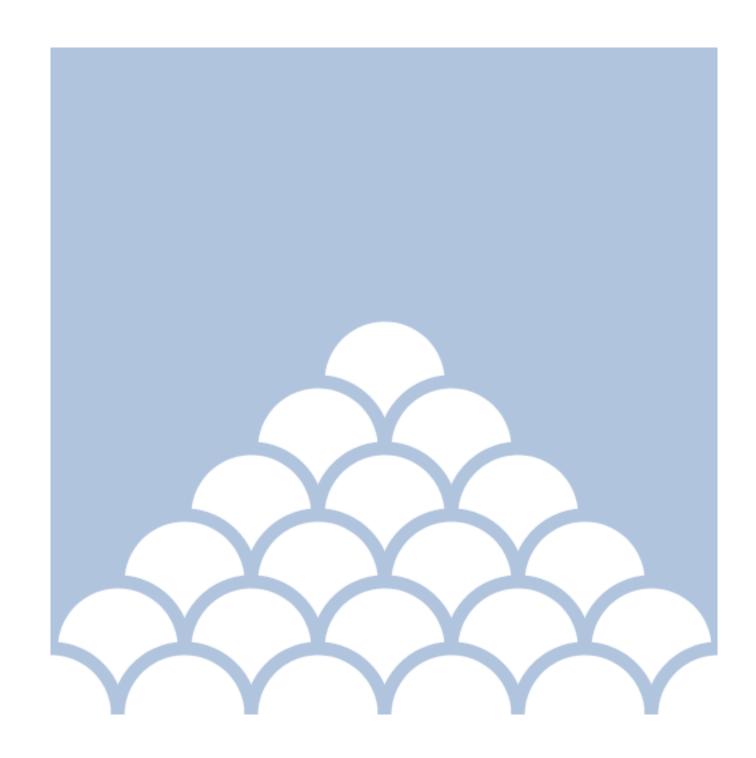
```
package main
import (
    "os"
    "github.com/ajstarks/svgo"
)
var (
    canvas = svg.New(os.Stdout)
    width = 500
   height = 500
)
func main() {
   h2 := height / 2
   r := width / 20
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height)
    for x, y := 50, h2; x < 450; x += 75 {
        canvas.Circle(x, h2, r+1, "fill:white")
        canvas.Circle(x, y, r, "fill:black")
       y += 10
    canvas.End()
```



```
package main
import (
    "github.com/ajstarks/svgo"
var (
    canvas = svg.New(os.Stdout)
    width = 500
    height = 500
func main() {
    angle, cx, cy := 30.0, width/2, height/2
    r := width / 4
    p := r / 8
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height)
    canvas.Gstyle("fill:white")
    for x := 0; x < 100; x += 12 {
        if x < 50 {
            canvas.Circle((width*x)/100, cy, p, "fill-opacity:0.5")
        } else {
            canvas.Circle((width*x)/100, cy, p, "fill-opacity:1")
        }
    canvas.Gend()
    canvas.Gstyle("fill:yellow")
    canvas.TranslateRotate(cx, cy, -angle)
    canvas.Arc(-r, 0, r, r, 30, false, true, r, 0)
    canvas.Gend()
    canvas.TranslateRotate(cx, cy, angle)
    canvas.Arc(-r, 0, r, r, 30, false, false, r, 0)
    canvas.Gend()
    canvas.Gend()
    canvas.End()
```



```
package main
import (
    "fmt"
    "os"
    "github.com/ajstarks/svgo"
var (
    canvas = svg.New(os.Stdout)
    width = 500
   height = 500
func main() {
   nr := 6
   radius := width / 10
   x := width / 2
    y := height / 2
    fgcolor := "white"
    bgcolor := "lightsteelblue"
    sw := width / 50
    sfmt := "fill:%s;;stroke:%s;stroke-width:%dpx"
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height, "fill:"+bgcolor)
    canvas.Gstyle(fmt.Sprintf(sfmt, fgcolor, bgcolor, sw))
    for r := 0; r < nr; r++ {
        xc := x
        for c := 0; c < r+1; c++ \{
            canvas.Circle(xc, y, radius)
            xc += radius * 2
        }
        x -= radius
        y += radius
    canvas.Gend()
    canvas.End()
```



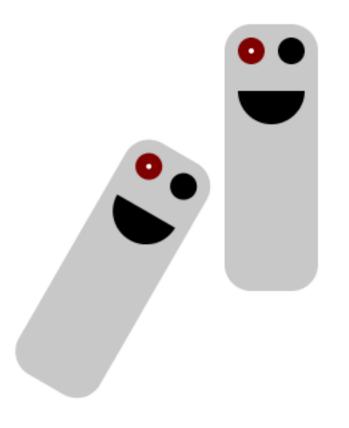
```
package main
import (
    "os"
    "github.com/ajstarks/svgo"
)
var (
    canvas = svg.New(os.Stdout)
    width = 500
   height = 500
)
func cloud(x, y, r int, style string) {
    small := r / 2
    medium := (r * 6) / 10
    canvas.Gstyle(style)
    canvas.Circle(x, y, r)
    canvas.Circle(x+r, y+small, small)
    canvas.Circle(x-r-small, y+small, small)
    canvas.Circle(x-r, y, medium)
    canvas.Rect(x-r-small, y, r*2+small, r)
    canvas.Gend()
}
func main() {
    canvas.Start(width, height)
    cloud(width/2, height/2, 100, canvas.RGB(127, 127, 127))
    canvas.End()
```

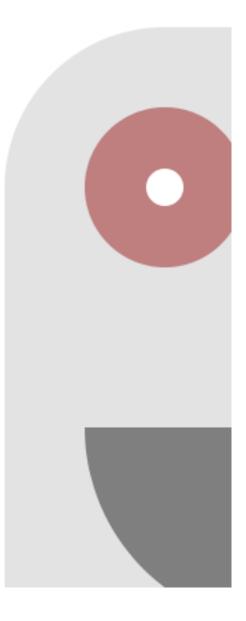


```
package main
import (
    "math/rand"
    "os"
    "time"
    "github.com/ajstarks/svgo"
var (
    canvas = svg.New(os.Stdout)
    width = 500
    height = 500
func cloud(x, y, r int, style string) {
    small := r / 2
    medium := (r * 6) / 10
    canvas.Gstyle(style)
    canvas.Circle(x, y, r)
    canvas.Circle(x+r, y+small, small)
    canvas.Circle(x-r-small, y+small, small)
    canvas.Circle(x-r, y, medium)
    canvas.Rect(x-r-small, y, r*2+small, r)
    canvas.Gend()
func main() {
    rand.Seed(time.Now().Unix())
    canvas.Start(width, height)
    for i := 0; i < 50; i++ {
        red := rand.Intn(255)
        green := rand.Intn(255)
        blue := rand.Intn(255)
        size := rand.Intn(60)
        x := rand.Intn(width)
        y := rand.Intn(height)
        cloud(x, y, size, canvas.RGB(red, green, blue))
    canvas.End()
```

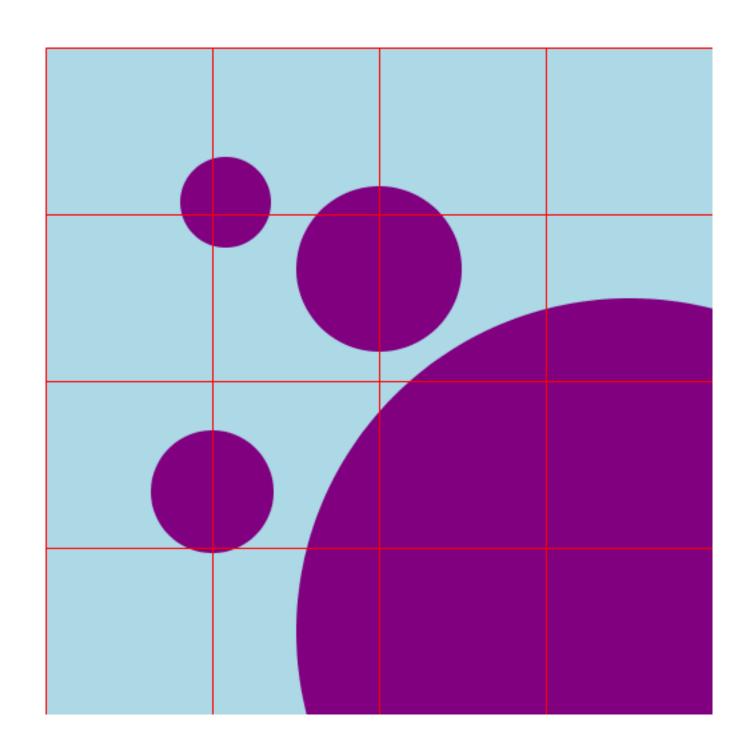


```
package main
import (
    "os"
    "github.com/ajstarks/svgo"
)
var canvas = svg.New(os.Stdout)
func smile(x, y, r int) {
   r2 := r * 2
   r3 := r * 3
   r4 := r * 4
    rq := r / 4
    gray := canvas.RGB(200, 200, 200)
    red := canvas.RGB(127, 0, 0)
    canvas.Roundrect(x-r2, y-r2, r*7, r*20, r2, gray)
    canvas.Circle(x, y, r, red)
    canvas.Circle(x, y, rq, "fill:white")
    canvas.Circle(x+r3, y, r)
    canvas.Arc(x-r, y+r3, rq, rq, 0, true, false, x+r4, y+r3)
}
func main() {
    canvas.Start(500, 500)
    canvas.Rect(0, 0, 500, 500, "fill:white")
    smile(200, 100, 10)
    canvas.Gtransform("rotate(30)")
    smile(200, 100, 10)
    canvas.Gend()
    canvas.Gtransform("translate(50,0) scale(2,2)")
    canvas.Gstyle("opacity:0.5")
    smile(200, 100, 30)
    canvas.Gend()
    canvas.Gend()
    canvas.End()
```

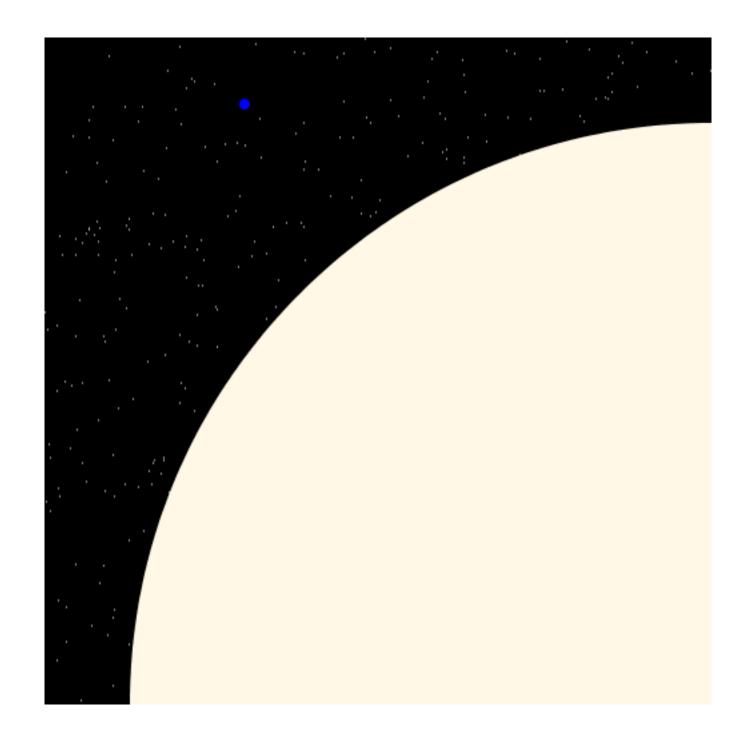




```
package main
import (
    "os"
    "github.com/ajstarks/svgo"
)
var (
    canvas = svg.New(os.Stdout)
    width = 500
   height = 500
)
func dot(x, y, d int) {
    canvas.Circle(x, y, d/2, "fill:rgb(128,0,128)")
}
// Composition from "Design for Hackers, pg. 129
func main() {
    d1 := height
    d2 := d1 / 4
    d3 := (d2 * 3) / 4
    d4 := (d3 * 3) / 4
    coffset := height / 8
    hoffset := height / (height / 10)
    voffset := -width / 10
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height, "fill:lightblue")
    dot(width-coffset, height-coffset, d1)
    dot(width/2, height/3, d2)
    dot(width/4, height*2/3, d3)
    dot(width/4+hoffset, height/3+voffset, d4)
    canvas.Grid(0, 0, width, height, width/4, "stroke:red")
    canvas.End()
```



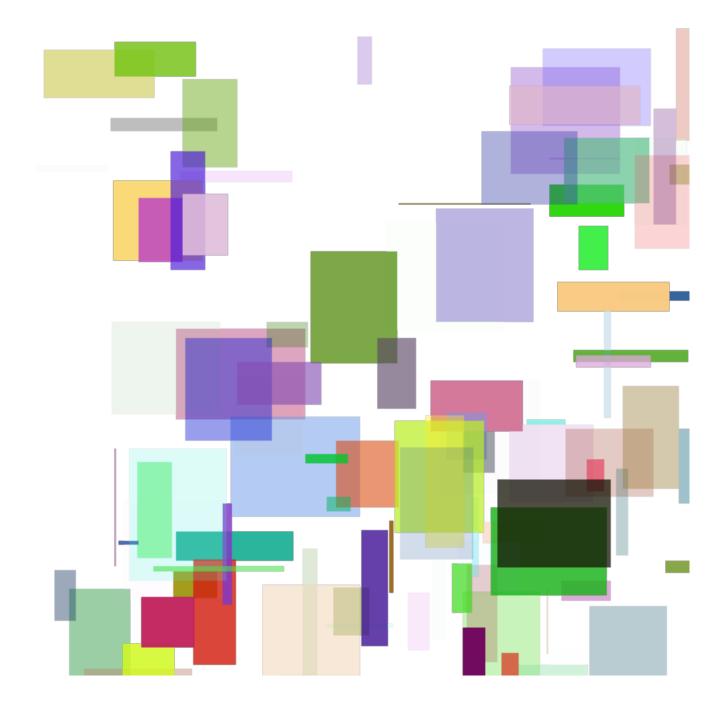
```
package main
import (
    "math/rand"
    "os"
    "github.com/ajstarks/svgo"
var (
    canvas = svg.New(os.Stdout)
    width = 500
   height = 500
func main() {
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height, "fill:black")
    for i := 0; i < width; i++ {
        x := rand.Intn(width)
        y := rand.Intn(height)
        canvas.Line(x, y, x, y+1, "stroke:white")
    earth := 4
    sun := earth * 109
    canvas.Circle(150, 50, earth, "fill:blue")
    canvas.Circle(width, height, sun, "fill:rgb(255, 248, 231)")
    canvas.End()
```



```
package main
import (
    "os"
    "github.com/ajstarks/svgo"
var (
    canvas = svg.New(os.Stdout)
    width = 500
   height = 500
)
func male(x, y, w int) {
    canvas.Ellipse(x, y, w, w/2, "fill:blue")
    canvas.Bezier(
       x-(w*8), y,
       x-(w*4), y-(w*4),
        x-(w*4), y+w,
        x-w, y, "stroke:blue;fill:none")
}
func female(x, y, w int) {
    canvas.Circle(x, y, w, "fill:pink")
}
func main() {
    msize := 5
    fsize := msize * 40
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height, "fill:white")
    female(width, height-50, fsize)
    male(100, 200, msize)
    canvas.End()
```

```
package main
import (
    "github.com/ajstarks/svgo"
    "math/rand"
    "os"
    "time"
var (
    canvas = svg.New(os.Stdout)
    width = 500
   height = 500
func male(x, y, w int) {
    canvas.Ellipse(x, y, w, w/2, "fill:blue")
    canvas.Bezier(
       x-(w*8), y,
        x-(w*4), y-(w*4),
        x-(w*4), y+w,
        x-w, y, "stroke:blue;fill:none")
}
func female(x, y, w int) {
    canvas.Circle(x, y, w, "fill:pink")
}
func main() {
    rand.Seed(time.Now().Unix())
    msize := 5
    fsize := msize * 40
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height, "fill:white")
    female(width, height-50, fsize)
    for i := 0; i < 100; i++ {
        canvas.TranslateRotate(rand.Intn(300)+100, rand.Intn(200)+200, rand.Float64()*45)
        male(0, 0, msize)
        canvas.Gend()
    canvas.End()
```

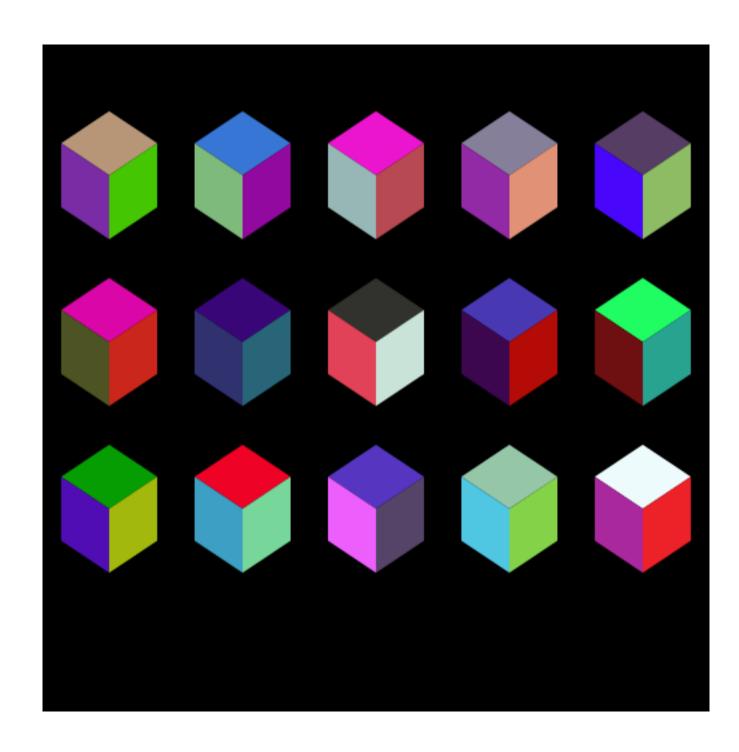
```
package main
import (
    "math/rand"
    "os"
    "time"
    "github.com/ajstarks/svgo"
var (
    canvas = svg.New(os.Stdout)
    width = 500
   height = 500
func main() {
    canvas.Start(width, height)
   rand.Seed(time.Now().Unix())
    for i := 0; i < 100; i++ {
        fill := canvas.RGBA(
            rand.Intn(255),
            rand.Intn(255),
            rand.Intn(255),
            rand.Float64())
        canvas.Rect(
            rand.Intn(width),
            rand.Intn(height),
            rand.Intn(100),
            rand.Intn(100),
            fill)
    canvas.End()
```



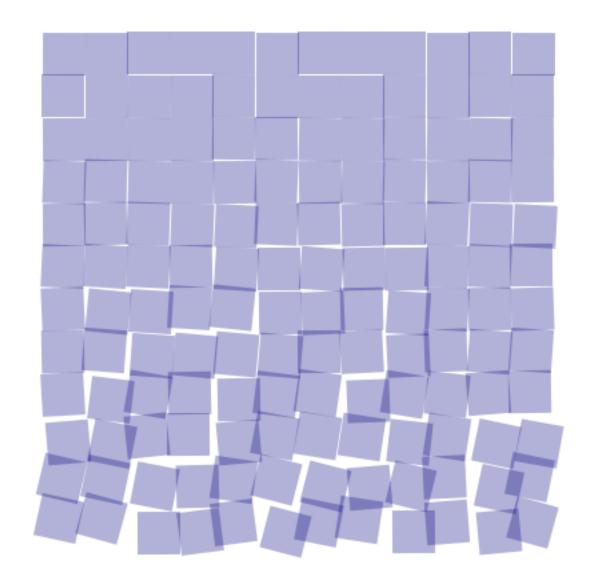
```
package main
import (
    "math/rand"
    "os"
    "time"
    "github.com/ajstarks/svgo"
var (
    canvas = svg.New(os.Stdout)
    width = 500
   height = 500
func main() {
    canvas.Start(width, height)
   rand.Seed(time.Now().Unix())
    for i := 0; i < 100; i++ {
        fill := canvas.RGBA(
            rand.Intn(255),
            rand.Intn(255),
            rand.Intn(255),
            rand.Float64())
        canvas.Ellipse(
            rand.Intn(width),
            rand.Intn(height),
            rand.Intn(100),
            rand.Intn(100),
            fill)
    canvas.End()
```



```
package main
import (
    "math/rand"
    "os"
    "time"
    "github.com/ajstarks/svgo"
)
var (
    canvas = svg.New(os.Stdout)
    width = 500
   height = 500
)
func randcolor() string {
    return canvas.RGB(rand.Intn(255),rand.Intn(255),rand.Intn(255))
}
func rcube(x, y, l int) {
    12, 13, 14, 16, 18 := 1*2, 1*3, 1*4, 1*6, 1*8
    tx := []int{x, x + (l3), x, x - (l3), x}
    ty := []int{y, y + (l2), y + (l4), y + (l2), y}
    lx := []int{x - (l3), x, x, x - (l3), x - (l3)}
    ly := []int{y + (l2), y + (l4), y + (l8), y + (l6), y + (l2)}
    rx := []int{x + (l3), x + (l3), x, x, x + (l3)}
    ry := []int{y + (l2), y + (l6), y + (l8), y + (l4), y + (l2)}
    canvas.Polygon(tx, ty, randcolor())
    canvas.Polygon(lx, ly, randcolor())
    canvas.Polygon(rx, ry, randcolor())
func main() {
    rand.Seed(time.Now().Unix())
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height)
    xp, y := width/10, height/10
   n, hspace, vspace, size := 3, width/5, height/4, width/40
    for r := 0; r < n; r++ \{
        for x := xp; x < width; x += hspace {
            rcube(x, y, size)
        }
        y += vspace
    canvas.End()
```



```
package main
import (
    "github.com/ajstarks/svgo"
    "math/rand"
    "os"
func tloc(x, y, s int, r, d float64) (int, int) {
    fx, fy, fs := float64(x), float64(y), float64(s)
    padding := 2 * fs
    return int(padding + (fx * fs) - (.5 * fs) + (r * d)),
        int(padding + (fy * fs) - (.5 * fs) + (r * d))
}
func random(n float64) float64 {
   x := rand.Float64()
    if x < 0.5 {
        return -n * x
    return n * x
}
func main() {
    columns, rows, sqrsize := 12, 12, 32
    rndStep, dampen := .22, 0.45
    width, height := (columns+4)*sqrsize, (rows+4)*sqrsize
    canvas := svg.New(os.Stdout)
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height, "fill:white")
    canvas.Gstyle("fill:rgb(0,0,127);fill-opacity:0.3")
    for y, randsum := 1, 0.0; y <= rows; y++ {
        randsum += float64(y) * rndStep
        for x := 1; x <= columns; x++ \{
            tx, ty := tloc(x, y, sqrsize, random(randsum), dampen)
            canvas.TranslateRotate(tx, ty, random(randsum))
            canvas.CenterRect(0, 0, sqrsize, sqrsize)
            canvas.Gend()
        }
    canvas.Gend()
    canvas.End()
```

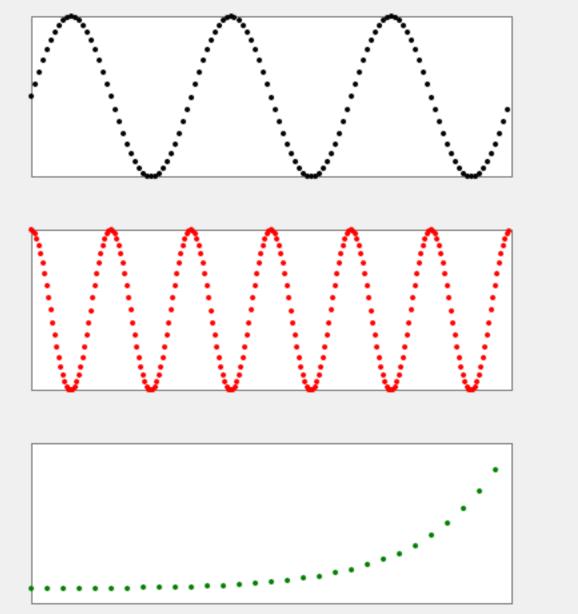


```
package main
import (
    "fmt"
    "math/rand"
    "os"
    "time"
    "github.com/ajstarks/svgo"
var (
    canvas = svg.New(os.Stdout)
    width = 500
    height = 500
func randarc(aw, ah, sw int, f1, f2 bool) {
    colors := []string{"red", "green", "blue", "gray"}
    afmt := "stroke:%s;stroke-opacity:%.2f;stroke-width:%dpx;fill:none"
    begin, arclength := rand.Intn(aw), rand.Intn(aw)
    end := begin + arclength
    baseline := ah / 2
    al, cl := arclength/2, len(colors)
    canvas.Arc(begin, baseline, al, al, 0, f1, f2, end, baseline,
        fmt.Sprintf(afmt, colors[rand.Intn(cl)], rand.Float64(), rand.Intn(sw)))
}
func main() {
    rand.Seed(time.Now().Unix())
    canvas.Start(width, height)
    aw := width / 2
    maxstroke := height / 10
    for i := 0; i < 20; i++ {
        randarc(aw, height, maxstroke, false, true)
        randarc(aw, height, maxstroke, false, false)
    canvas.End()
```

```
package main
import (
    "fmt"
    "os"
    "github.com/ajstarks/svgo"
)
var (
            = svg.New(os.Stdout)
    canvas
             = 500
    width
   height
            = 500
    maxlevel = 5
    colors = []string{"red", "orange", "yellow", "green", "blue"}
func branch(x, y, r, level int) {
    astyle := fmt.Sprintf("fill:none;stroke:%s;stroke-width:%dpx", colors[level%maxlevel], level*2)
    canvas.Arc(x-r, y, r, r, 0, true, true, x+r, y, astyle)
    if level > 0 {
        branch(x-r, y+r/2, r/2, level-1)
        branch(x+r, y+r/2, r/2, level-1)
}
// Example from "Generative Design", pg 414
func main() {
    canvas.Start(width, height)
    branch(0, 0, width/2, 6)
    canvas.End()
}
```

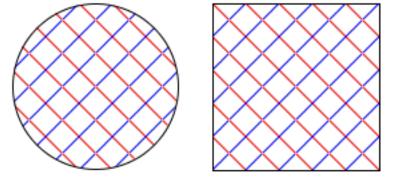
```
package main
                                                                                                  07:20:41
import (
    "fmt"
    "github.com/ajstarks/svgo"
    "math"
    "os"
    "time"
var (
    canvas = svg.New(os.Stdout)
    width = 500
    height = 500
func vmap(value float64, l1 float64, h1 float64,
    l2 float64, h2 float64) float64 {
    return l2 + (h2-l2)*(value-l1)/(h1-l1)
}
// See: Processing (Reas and Fry), pg. 247
func main() {
    w2, h2 := width/2, height/2
    h, m, s := time.Now().Clock()
    sec := vmap(float64(s), 0, 60, 0, math.Pi*2) - math.Pi/2
    min := vmap(float64(m), 0, 60, 0, math.Pi*2) - math.Pi/2
    hour := vmap(float64(h\%12), 0, 12, 0, math.Pi*2) - math.Pi/2
    secpct := float64(width) * 0.38
    minpct := float64(width) * 0.30
    hourpct := float64(width) * 0.25
    facepct := (width * 40) / 100
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height)
    canvas.Text(w2, 25, fmt.Sprintf("%02d:%02d:%02d", h, m, s), "text-anchor:middle;font-size:12pt;fill:white")
    canvas.Circle(w2, h2, facepct, canvas.RGB(100, 100, 100))
    canvas.Gstyle("stroke:white;stroke-width:20;stroke-opacity:0.6;stroke-linecap:round")
    canvas.Line(w2, h2, int(math.Cos(sec)*secpct)+w2, int(math.Sin(sec)*secpct)+h2, "stroke:red;stroke-width:5")
    canvas.Line(w2, h2, int(math.Cos(min)*minpct)+w2, int(math.Sin(min)*minpct)+h2)
    canvas.Line(w2, h2, int(math.Cos(hour)*hourpct)+w2, int(math.Sin(hour)*hourpct)+h2)
    canvas.Gend()
    canvas.End()
```

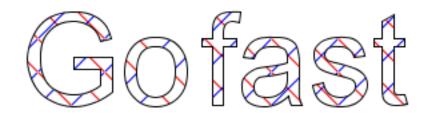
```
package main
import (
    "math"
    "os"
    "github.com/ajstarks/svgo"
var (
    canvas = svg.New(os.Stdout)
    width = 500
   height = 500
func vmap(value float64, l1 float64, h1 float64,
    l2 float64, h2 float64) float64 {
    return l2 + (h2-l2)*(value-l1)/(h1-l1)
}
func plotfunc(left, top, w, h int, min, max, fmin, fmax,
    interval float64, f func(float64) float64, style ...string) {
    canvas.Translate(0, top)
    canvas.Rect(left, 0, w, h, "fill:white;stroke:gray")
    for x := min; x < max; x += interval {
        dx := int(vmap(x, min, max, float64(left), float64(w+left)))
        dy := int(vmap(f(x), fmin, fmax, 0, float64(h)))
        canvas.Translate(0, (h - height))
        canvas.Circle(dx, height-dy, 2, style...)
        canvas.Gend()
    canvas.Gend()
func main() {
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height, "fill:rgb(240,240,240)")
    plotfunc(80, 20, 360, 120, 0, 6*math.Pi, -1, 1, math.Pi/20, math.Sin)
    plotfunc(80, 180, 360, 120, 0, 12*math.Pi, -1, 1, math.Pi/20, math.Cos, "fill:red")
    plotfunc(80, 340, 360, 120, -3, 3, -2, 20, 0.2, math.Exp, "fill:green")
    canvas.End()
```



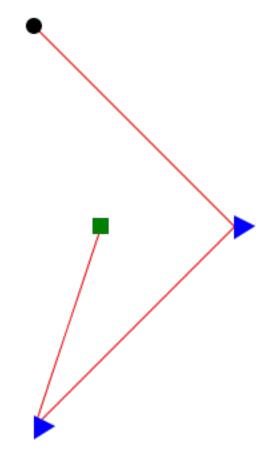
```
package main
import (
    "fmt"
    "os"
                                                                               Cost
                                                                                                   100
    "github.com/ajstarks/svgo"
                                                                             Timing
                                                                                                                    250
var (
    canvas = svg.New(os.Stdout)
    width = 500
                                                                           Sourcing
                                                                                             50
   height = 500
                                                                        Technology
                                                                                                            175
type Measure struct {
    name string
    value int
}
func (data *Measure) meter(x, y, w, h int) {
    corner := h / 2
    inset := corner / 2
    canvas.Text(x-10, y+h/2, data.name, "text-anchor:end;baseline-shift:-33%")
    canvas.Roundrect(x, y, w, h, corner, corner, "fill:rgb(240,240,240)")
    canvas.Roundrect(x+corner, y+inset, data.value, h-(inset*2), inset, inset, "fill:darkgray")
    canvas.Circle(x+inset+data.value, y+corner, inset, "fill:red;fill-opacity:0.3")
    canvas.Text(x+inset+data.value+inset+2, y+h/2, fmt.Sprintf("%-3d", data.value),
        "font-size:75%;text-anchor:start;baseline-shift:-33%")
}
func main() {
    items := []Measure{{"Cost", 100}, {"Timing", 250}, {"Sourcing", 50}, {"Technology", 175}}
    x, y, gutter, mh := 100, 50, 20, 50
    canvas.Start(width, height)
    canvas.Gstyle("font-family:sans-serif;font-size:12pt")
    for _, data := range items {
        data.meter(x, y, width-100, mh)
        y += mh + gutter
    canvas.Gend()
    canvas.End()
                                                                                                               therm.go
```

```
package main
import (
    "fmt"
    "os"
    "github.com/ajstarks/svgo"
)
var (
    canvas = svg.New(os.Stdout)
    width = 500
   height = 500
func main() {
    pct := 5
    pw, ph := (width*pct)/100, (height*pct)/100
    canvas.Start(width, height)
    canvas.Def()
    canvas.Pattern("hatch", 0, 0, pw, ph, "user")
    canvas.Gstyle("fill:none;stroke-width:1")
    canvas.Path(fmt.Sprintf("M0,0 l%d,%d", pw, ph), "stroke:red")
    canvas.Path(fmt.Sprintf("M%d,0 l-%d,%d", pw, pw, ph), "stroke:blue")
    canvas.Gend()
    canvas.PatternEnd()
    canvas.DefEnd()
    x1 := width / 2
    x2 := (width * 4) / 5
    canvas.Gstyle("stroke:black; font-size: 72pt; text-anchor:middle; fill:url(#hatch)")
    canvas.Circle(x1, height/2, height/8)
    canvas.CenterRect(x2, height/2, height/4, height/4)
    canvas.Text(x1, height-50, "Go")
    canvas.Text(x2, height-50, "fast")
    canvas.Gend()
    canvas.End()
```

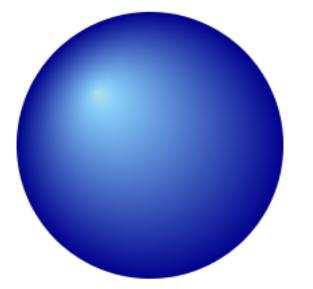




```
package main
import (
    "os"
    "github.com/ajstarks/svgo"
)
var (
    canvas = svg.New(os.Stdout)
    width = 500
   height = 500
func main() {
    canvas.Start(width, height)
    canvas.Def()
    canvas.Marker("dot", 10, 10, 16, 16)
    canvas.Circle(10, 10, 6, "fill:black")
    canvas.MarkerEnd()
    canvas.Marker("box", 10, 10, 16, 16)
    canvas.CenterRect(10, 10, 12, 12, "fill:green")
    canvas.MarkerEnd()
    canvas.Marker("arrow", 4, 12, 26, 26)
    canvas.Path("M4,4 L4,22 L20,12 L4,4", "fill:blue")
    canvas.MarkerEnd()
    canvas.DefEnd()
   x := []int{100, 250, 100, 150}
    y := []int{100, 250, 400, 250}
    canvas.Polyline(x, y,
        `fill="none"`,
        `stroke="red"`,
        `marker-start="url(#dot)"`,
        `marker-mid="url(#arrow)"`,
        `marker-end="url(#box)"`)
    canvas.End()
```



```
package main
import (
    "os"
    "github.com/ajstarks/svgo"
)
var (
    canvas = svg.New(os.Stdout)
    width = 500
   height = 500
)
func main() {
    rg := []svg.Offcolor{
        {1, "powderblue", 1},
        {10, "lightskyblue", 1},
        {100, "darkblue", 1},
    lg := []svg.Offcolor{
        {10, "black", 1},
        {20, "gray", 1},
        {100, "lightgray", 1},
    }
    canvas.Start(width, height)
    canvas.Def()
    canvas.RadialGradient("rg", 50, 50, 50, 30, 30, rg)
    canvas.LinearGradient("lg", 0, 100, 0, 0, lg)
    canvas.DefEnd()
    canvas.Circle(width/2, height-300, 100, "fill:url(#rg)")
    canvas.Ellipse(width-110, height-50, 100, 20, "fill:url(#lg)")
    canvas.End()
```





```
package main
import (
    "fmt"
                                                                         Helvetica 10 12 16 21 24 36 48
    "os"
   "github.com/ajstarks/svgo"
                                                                           Times 10 12 16 21 24 36 48
)
var (
                                                                         COURTIEN 10 12 16 21 24 36 48
    canvas = svg.New(os.Stdout)
   width = 500
   height = 500
                                                                        sans-serif 10 12 16 21 24 36 48
func main() {
   fonts := []string{
                                                                            serif 10 12 16 21 24 36 48
       "Helvetica", "Times", "Courier",
       "sans-serif", "serif", "monospace",
                                                                        mono space 10 12 16 21 24 36 48
   sizes := []int\{10, 12, 16, 21, 24, 36, 48\}
    largest := sizes[len(sizes)-1]
   gutter := largest + (largest / 3)
    margin := gutter * 2
   v := 100
    canvas.Start(width, height)
   for _, f := range fonts {
       x := margin
       canvas.Gstyle("font-family:" + f)
       canvas.Text(x-10, y, f, "text-anchor:end")
       for _, s := range sizes {
           canvas.Text(x, y, fmt.Sprintf("%d", s), fmt.Sprintf("font-size:%dpt", s))
           x += s * 2
       }
       canvas.Gend()
       y += gutter
    canvas.End()
```

```
package main
                                                             00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
import (
                                                         2600 ♥ ♣ ♠ ff ~ ★ ★ ƙ B ⊙ ଋ ೪ ४ ♂ ☎ ☜
   "fmt"
                                                         "os"
                                                             2620
   "github.com/ajstarks/svgo"
                                                         2630 ≡ ≡ ≡ ≡ ≡ ≡ ⊕ ⊗ ⊕ ♥ ⊃
)
                                                         2640 ♀ ま ♂ コ h 巣 Ψ P Y ႘ Ⅱ ∽ ጺ W
                                                         2650 メルル 米 會 當 堂 魚 引 片 會
var (
                                                         2660 ♠ ♡ ◊ ♣ 쇼 ♥ ♦ 욮 ♨ ㅣ ♪ ♬ ♬
   canvas = svg.New(os.Stdout)
   width = 500
                                                         2670 + + & A A A A A A A A A B 🚱 😂 🛇 🗟
  height = 500
                                                         26A0 <u>Λ</u> γ φ ở ở ở ở ở ở ở ở ο ο ο ο ο ο ο
func main() {
   top, left, fontsize := 50, 100, 16
                                                         26B0 ∽ ♡ ♀ ? ♀ ★ ₺ ₺ $ ★ ⊻ ⊼ ♀ ❖ ♡ ¶
  xoffset, yoffset := 25, 25
                                                         26C0 ⊕ 🗑 🕶 📽 🖰 🕮 🎆 🖀 🖈 ▽ 🔻 🖸 🗙 🖏 🖫 🤘
  rows, cols := 16, 16
                                                         26D0 ♣ ♦ ⊗ ¾ ♠ ¼ ♠ ♠ ◢ /|| ... ▽ /|| ⊠ 🖸 🖚
   glyph := 0x2600
                                                         font := "Symbola"
   stylefmt := "font-family:%s;font-size:%dpx;text-anchor:middle"
                                                             canvas.Start(width, height)
   canvas.Gstyle(fmt.Sprintf(stylefmt, font, fontsize))
  x, y := left, top
   for r := 0; r < rows; r++ \{
      canvas.Text(x-yoffset, y, fmt.Sprintf("%X", glyph), "text-anchor:end;fill:gray")
      for c := 0; c < cols; c++ {
         if r == 0 {
            canvas.Text(x, y-yoffset, fmt.Sprintf("%02X", c), "fill:gray")
         }
         canvas.Text(x, y, string(glyph))
         glyph++
         x += xoffset
      }
     x = left
     y += yoffset
   canvas.Gend()
   canvas.End()
```

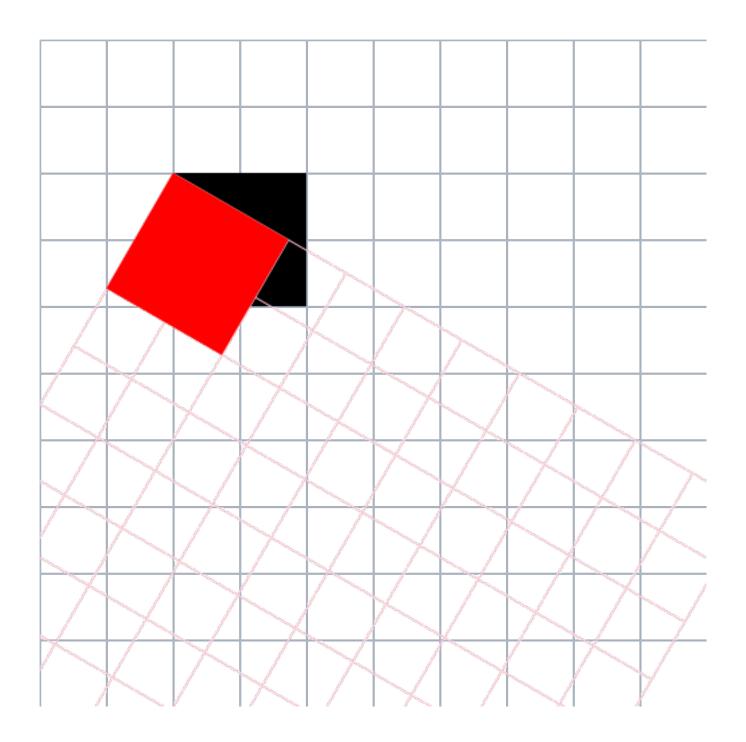
```
package main
import (
    "os"
    "github.com/ajstarks/svgo"
var (
    canvas = svg.New(os.Stdout)
    width = 500
   height = 500
func main() {
    lorem := []string{
        "Lorem ipsum dolor sit amet, consectetur adipiscing",
        "elit, sed do eiusmod tempor incididunt ut labore et",
        "dolore magna aliqua. Ut enim ad minim veniam, quis",
        "nostrud exercitation ullamco laboris nisi ut aliquip",
        "ex ea commodo consequat. Duis aute irure dolor in",
        "reprehenderit in voluptate velit esse cillum dolore eu",
        "fugiat nulla pariatur. Excepteur sint occaecat cupidatat",
        "non proident, sunt in culpa qui officia deserunt mollit",
    fontlist := []string{"Georgia", "Helvetica", "Gill Sans"}
    size, leading := 14, 16
   x, y := 50, 20
    tsize := len(lorem)*leading + size*3
    canvas.Start(width, height)
    for _, f := range fontlist {
        canvas.Gstyle("font-family:" + f)
        canvas.Textlines(x, y, lorem, size, leading, "black", "start")
        canvas.Text(x, size+y+tsize/2, f, "fill-opacity:0.3;fill:red;font-size:750%")
        canvas.Gend()
        y += tsize
    canvas.End()
```

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit

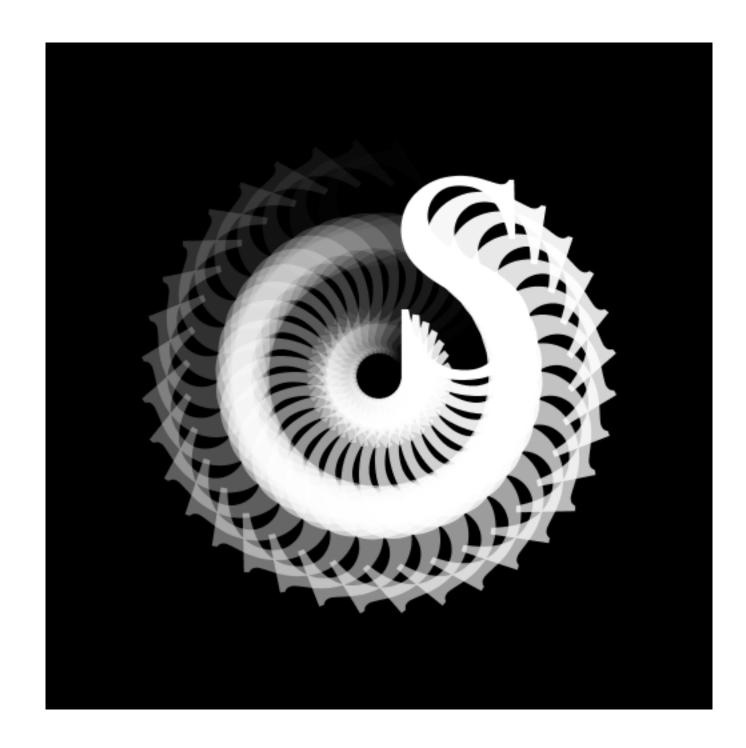
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit

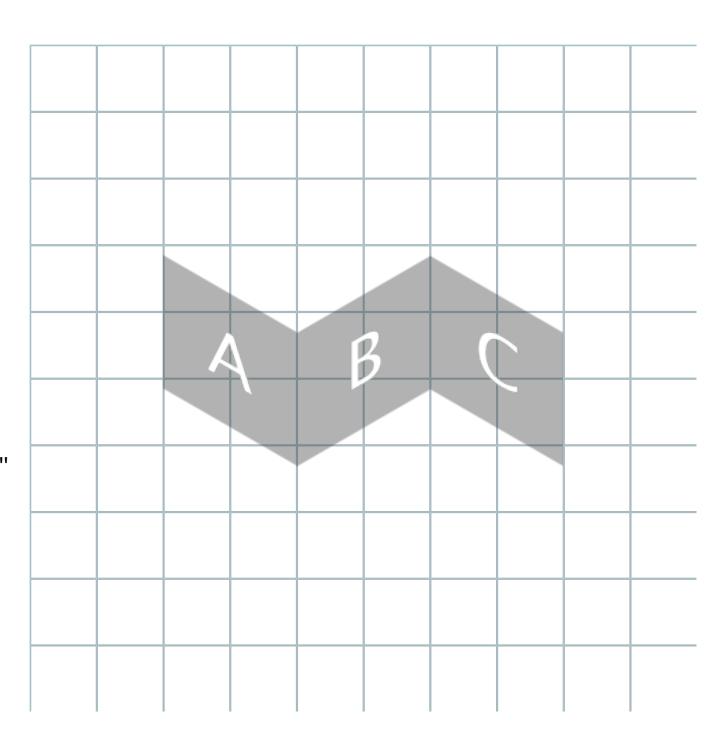
```
package main
import (
    "os"
    "github.com/ajstarks/svgo"
var (
    canvas = svg.New(os.Stdout)
    width = 500
   height = 500
)
func tro() {
    canvas.Rect(100, 100, 100, 100)
    canvas.TranslateRotate(100, 100, 30)
    canvas.Grid(0, 0, width, height, 50, "stroke:pink")
    canvas.Rect(0, 0, 100, 100, "fill:red")
    canvas.Gend()
}
func main() {
    canvas.Start(width, height)
    canvas.Grid(0, 0, width, height, 50, "stroke:lightsteelblue")
    tro()
    canvas.End()
```



```
package main
import (
    "os"
    "github.com/ajstarks/svgo"
var (
    canvas = svg.New(os.Stdout)
    width = 500
   height = 500
func main() {
    a := 1.0
    ai := 0.03
    ti := 10.0
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height)
    canvas.Gstyle("font-family:serif;font-size:244pt")
    for t := 0.0; t <= 360.0; t += ti {
        canvas.TranslateRotate(width/2, height/2, t)
        canvas.Text(0, 0, "s", canvas.RGBA(255, 255, 255, a))
        canvas.Gend()
        a -= ai
    canvas.Gend()
    canvas.End()
```

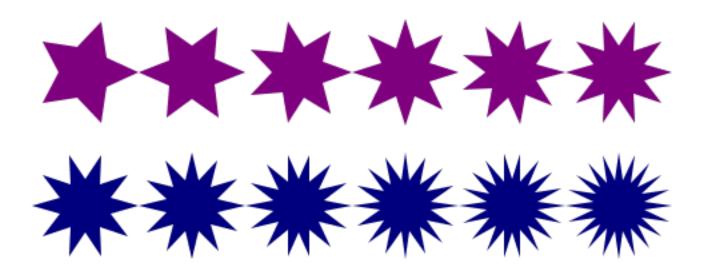


```
package main
import (
    "fmt"
    "os"
    "github.com/ajstarks/svgo"
var (
    canvas = svg.New(os.Stdout)
    width = 500
   height = 500
func sky(x, y, w, h, a int, s string) {
    tfmt := "font-family:sans-serif;font-size:%dpx;text-anchor:middle"
    canvas.Gstyle(fmt.Sprintf(tfmt, w/2))
    canvas.SkewXY(0, float64(a))
    canvas.Rect(x, y, w, h, "fill:black;fill-opacity:0.3")
    canvas.Text(x+w/2, y+h/2, s, "fill:white;baseline-shift:-33%")
    canvas.Gend()
    canvas.Gend()
}
func main() {
    canvas.Start(width, height)
    canvas.Grid(0, 0, width, height, 50, "stroke:lightblue")
    sky(100, 100, 100, 100, 30, "A")
    sky(200, 332, 100, 100, -30, "B")
    sky(300, -15, 100, 100, 30, "C")
    canvas.End()
```



```
package main
import (
    "fmt"
    "os"
    "github.com/ajstarks/svgo"
var (
    canvas = svg.New(os.Stdout)
    width = 500
   height = 500
)
func gear(x, y, w, h, n, l, m int, color string) {
    canvas.Gstyle(fmt.Sprintf("fill:none;stroke:%s;stroke-width:%d", color, n/2))
    canvas.Circle(x+w/2, y+h/2, n)
    canvas.Circle(x+w/2, y+h/2, n/5, "fill:"+color)
    ai := 360 / float64(m)
    for a := 0.0; a <= 360.0; a += ai {
        canvas.TranslateRotate(x+w/2, y+h/2, a)
        canvas.Line(n-l, n-l, n+l, n+l)
        canvas.Gend()
    }
    canvas.Gend()
}
func main() {
    canvas.Start(width, height)
    gear(0, 0, 250, 250, 60, 10, 8, "black")
    gear(100, 160, 250, 250, 60, 10, 8, "red")
    gear(300, 140, 100, 100, 20, 6, 8, "blue")
    canvas.End()
}
```

```
package main
import (
    "math"
    "os"
    "github.com/ajstarks/svgo"
var (
    canvas = svg.New(os.Stdout)
    width = 500
   height = 500
// See: http://vormplus.be/blog/article/processing-month-day-4-stars
func star(xp, yp, n int, inner, outer float64, style string) {
    xv, yv := make([]int, n*2), make([]int, n*2)
    angle := math.Pi / float64(n)
    for i := 0; i < n*2; i++ {
        fi := float64(i)
        if i%2 == 0 {
            xv[i] = int(math.Cos(angle*fi) * outer)
            yv[i] = int(math.Sin(angle*fi) * outer)
        } else {
            xv[i] = int(math.Cos(angle*fi) * inner)
            yv[i] = int(math.Sin(angle*fi) * inner)
        }
    canvas.Translate(xp, yp)
    canvas.Polygon(xv, yv, style)
    canvas.Gend()
}
func main() {
    canvas.Start(width, height)
    for x, i := 50, 5; i \le 10; i++ \{
        star(x, 200, i, 20, 40, canvas.RGB(127, 0, 127))
        star(x, 300, i*2, 20, 40, canvas.RGB(0, 0, 127))
        x += 80
    canvas.End()
```



```
package main
import (
    "github.com/ajstarks/svgo"
    "math"
    "os"
var canvas, width, height = svg.New(os.Stdout), 500, 500
func polar(cx, cy int, r, t float64) (int, int) {
    return cx + int(r*math.Cos(t)), cy + int(r*math.Sin(t))
}
func star(x, y, n int, inner, outer float64, style string) {
    xv, yv, t := make([]int, n*2), make([]int, n*2), math.Pi/float64(n)
    for i := 0; i < n*2; i++ {
        if i%2 == 0 {
            xv[i], yv[i] = polar(0, 0, outer, t*float64(i))
        } else {
            xv[i], yv[i] = polar(0, 0, inner, t*float64(i))
        }
    }
    canvas.TranslateRotate(x, y, 54)
    canvas.Polygon(xv, yv, style)
    canvas.Gend()
func aline(x, y int, r, a1, a2 float64) {
    x1, y1 := polar(x, y, r, a1)
    x2, y2 := polar(x, y, r, a2)
    canvas.Line(x1, y1, x2, y2, "stroke:maroon;stroke-width:10")
}
func main() {
   x, y, p4, r := width/2, height/2, math.Pi/4, 65.0
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height, canvas.RGB(240, 240, 240))
    canvas.Circle(x, y, width/2, canvas.RGB(255, 255, 255))
    star(x, y, 5, 90, 240, canvas.RGB(200, 200, 200))
    aline(x, y, r, p4, 5*p4)
    aline(x, y, r, 3*p4, 7*p4)
    canvas.End()
```



```
package main
import (
    "fmt"
    "os"
    "github.com/ajstarks/svgo"
var (
                                                                          begin (70,200)
    canvas = svg.New(os.Stdout)
    width = 500
   height = 500
func coord(x, y, size int, label string) {
    tstyle := "text-anchor:middle;font-size:14pt"
    offset := size + (size / 2)
    canvas.Text(x, y-offset, fmt.Sprintf("%s (%d,%d)", label, x, y), tstyle)
    canvas.Circle(x, y, size)
}
                                                                            control (100,425)
func showcurve(bx, by, cx, cy, ex, ey int) {
    dotsize := 5
    sw := dotsize * 2
    cfmt := "stroke:%s;stroke-width:%d;fill:none;stroke-opacity:%.2f"
    style := fmt.Sprintf(cfmt, "red", sw, 0.2)
    coord(bx, by, dotsize, "begin")
    coord(ex, ey, dotsize, "end")
    coord(cx, cy, dotsize, "control")
    canvas.Qbez(bx, by, cx, cy, ex, ey, style)
}
func main() {
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height, "fill:rgb(250,250,250)")
    canvas.Grid(0, 0, width, height, 25, "stroke:lightgray")
    showcurve(70, 200, 100, 425, 425, 125)
    canvas.End()
```

end (425,125)

```
package main
import (
    "fmt"
    "os"
    "github.com/ajstarks/svgo"
)
var (
    canvas = svg.New(os.Stdout)
    width = 500
   height = 500
)
func coord(x, y, size int) {
    offset := size * 2
    canvas.Text(x, y-offset, fmt.Sprintf("(%d,%d)", x, y),
        "font-size:50%;text-anchor:middle")
    canvas.Circle(x, y, size, "fill-opacity:0.3")
}
func makepath(x, y, sx, sy, cx, cy, ex, ey int, id, text string) {
    canvas.Def()
    canvas.Qbez(sx, sy, cx, cy, ex, ey, `id="`+id+`"`)
    canvas.DefEnd()
    canvas.Translate(x, y)
    canvas.Textpath(text, "#"+id)
    coord(sx, sy, 5)
    coord(ex, ey, 5)
    coord(cx, cy, 5)
    canvas.Gend()
}
func main() {
    message := `It's fine & "dandy" to have text on a path`
    canvas.Start(width, height)
    canvas.Gstyle("font-family:serif;font-size:21pt")
    makepath(0, 0, 70, 200, 100, 425, 425, 125, "tpath", message)
    canvas.Gend()
    canvas.End()
```

(70,200)

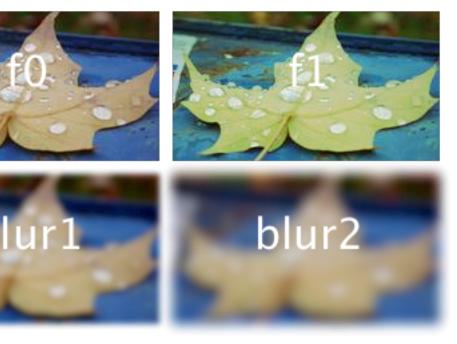
To have text on a path

"dandy" to have text on a path

(100,425)

```
package main
import (
    "fmt"
    "os"
    "github.com/ajstarks/svgo"
var (
    canvas = svg.New(os.Stdout)
    width = 500
   height = 500
func main() {
    canvas.Start(width, height)
    opacity := 1.0
    for x := 0; x < width; x += 100 {
        canvas.Image(x, 100, 100, 124, "gopher.jpg", fmt.Sprintf("opacity:%.2f", opacity))
        opacity -= 0.15
    }
    canvas.End()
```

```
package main
import (
    "fmt"
    "github.com/ajstarks/svgo"
    "os"
)
var canvas = svg.New(os.Stdout)
func main() {
    gutter, nc := 10, 2
    iw, ih := 200, 112
    pw, ph := (iw*nc)+gutter*(nc+1), (ih*3)+gutter*4
    canvas.Start(pw, ph)
    canvas.Def()
    canvas.Filter("f0")
    canvas.Saturate(1.0)
    canvas.Fend()
    canvas.Filter("f1")
    canvas.FeComponentTransfer()
    canvas.FeFuncTable("G", []float64{0, 0.5, 0.6, 0.85, 1.0})
    canvas.FeCompEnd()
    canvas.Fend()
    for i, b := 0, 0.0; b < 20.0; b += 2.0 {
        canvas.Filter(fmt.Sprintf("blur%d", i))
        canvas.Blur(b)
        canvas.Fend()
        i++
    canvas.DefEnd()
    x, y := gutter, gutter
    canvas.Gstyle("text-anchor:middle;fill:white;font-family:sans-serif;font-size:24pt")
    for i, f := range []string{"f0", "f1", "blur1", "blur2"} {
        if i != 0 && i%nc == 0 {
            x = gutter
            y += ih + gutter
        canvas.Image(x, y, iw, ih, "maple.jpg", "filter:url(#"+f+")")
        canvas.Text(x+iw/2, y+ih/2, f)
        x += iw + gutter
    }
    canvas.Gend()
    canvas.End()
```



```
package main
import (
    "fmt"
    "os"
    "github.com/ajstarks/svgo"
var (
    canvas = svg.New(os.Stdout)
    width = 500
   height = 500
func tf(x, y int, s string, size float64) {
    canvas.Text(x, y, s, fmt.Sprintf("font-size:%gpt", size))
}
func main() {
   x, y := width/2, 35
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height, canvas.RGB(72, 45, 77))
    canvas.Gstyle("font-family:Roboto;fill:white;text-anchor:middle")
    tf(x, y, "A MAN WHO WORKS WITH HIS HANDS IS A LABORER", 14)
    y += 70
    tf(x, y, "A MAN WHO", 60)
    y += 105
   tf(x, y, "WORKS", 90)
    y += 35
    tf(x, y, "WITH HIS HANDS AND HIS BRAIN IS A CRAFTSMAN", 15)
   y += 60
    tf(x, y, "BUT A MAN WHO", 42)
   y += 40
   tf(x, y, "WORKS WITH HIS HANDS AND HIS BRAIN", 16)
    y += 55
   tf(x, y, "AND HIS HEART IS", 36)
    v += 85
    tf(x, y, "AN ARTIST", 64)
    canvas.Gend()
    canvas.End()
```

A MAN WHO WORKS WITH HIS HANDS IS A LABORER WITH HIS HANDS AND HIS BRAIN IS A CRAFTSMAN BUT A MAN WHO WORKS WITH HIS HANDS AND HIS BRAIN AND HIS HEART IS ANARTIST

```
package main
import (
    "github.com/ajstarks/svgo"
var (
    canvas = svg.New(os.Stdout)
    width = 500
    height = 500
func main() {
    blues := "stroke:blue"
    reds := "stroke:red"
    greens := "stroke:green"
    organges := "stroke:orange"
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height, "fill:white")
    canvas.Gstyle("fill:none;stroke-opacity:0.5;stroke-width:35;stroke-linecap:round")
    // g
    canvas.Arc(20, 200, 30, 30, 0, false, true, 220, 200, blues)
    canvas.Arc(20, 200, 30, 30, 0, false, false, 220, 200, reds)
    canvas.Line(220, 100, 220, 300, greens)
    canvas.Arc(20, 320, 30, 30, 0, false, false, 220, 300, organges)
    // o
    canvas.Arc(280, 200, 30, 30, 0, false, true, 480, 200, reds)
    canvas.Arc(280, 200, 30, 30, 0, false, false, 480, 200, blues)
    canvas.Gend()
    canvas.End()
```