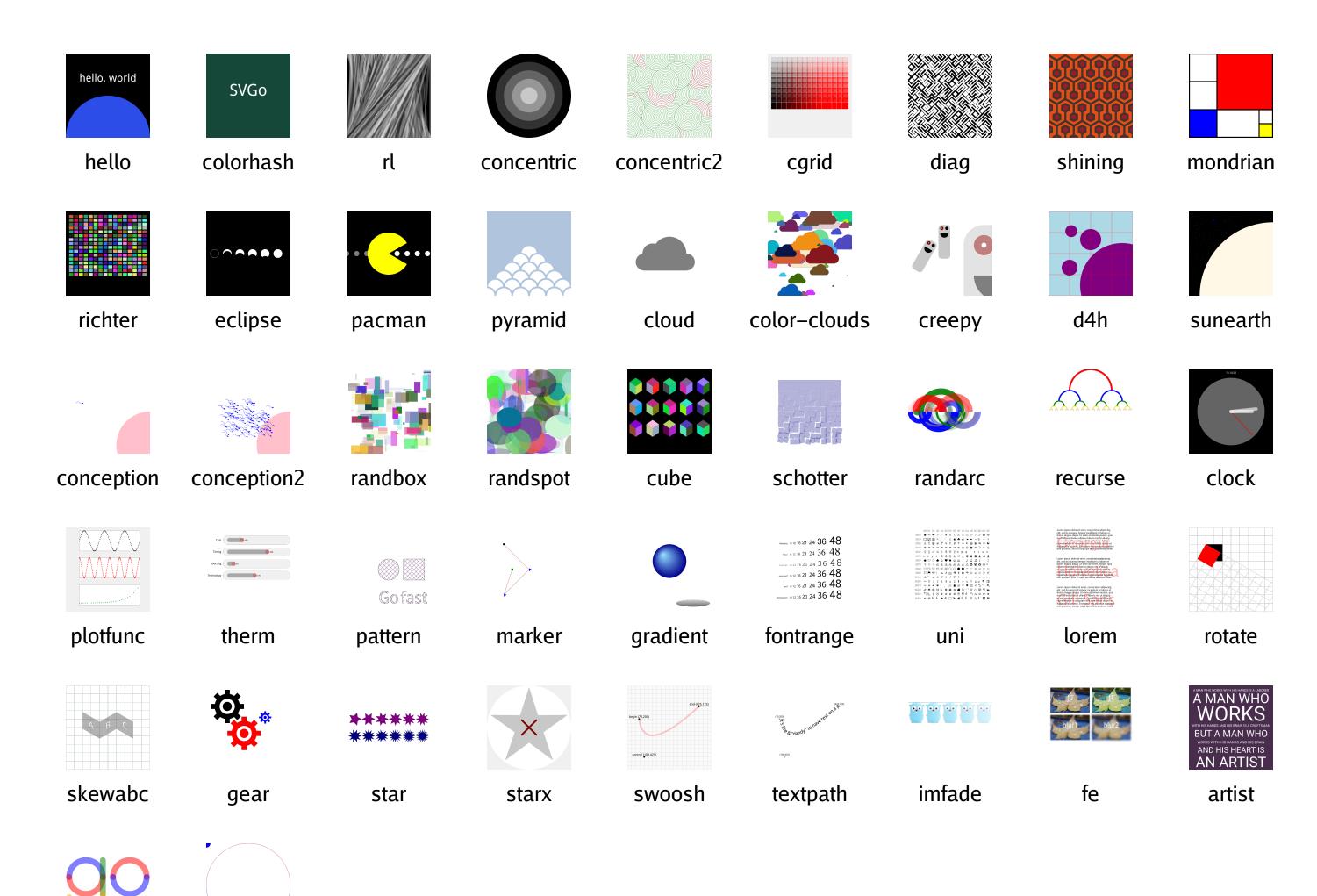
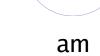
## gensvg examples







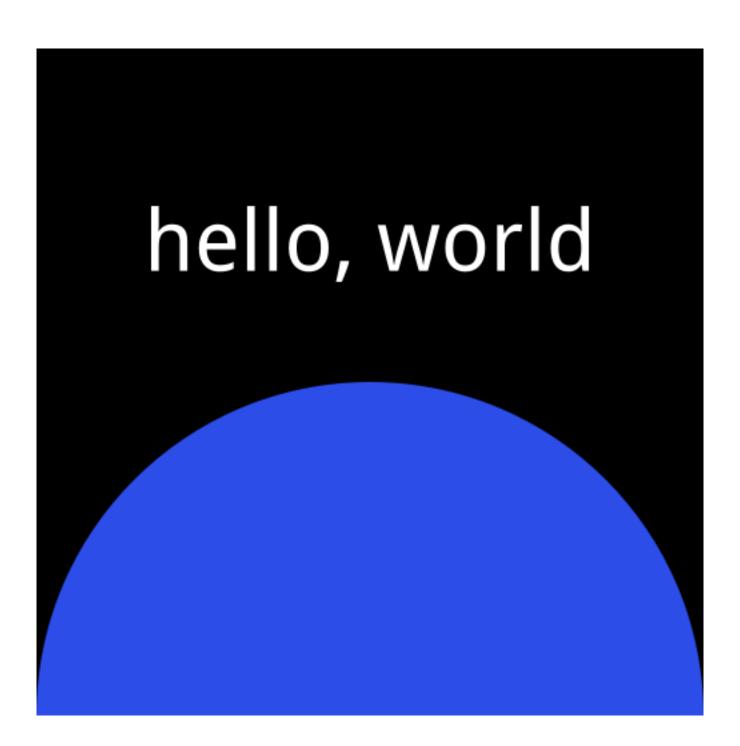
```
package main
import (
    "os"

    "github.com/ajstarks/gensvg"
)

var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
    height = 500.0
)

func main() {
    style := "fill:white;font-size:48pt;text-anchor:middle"
    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()



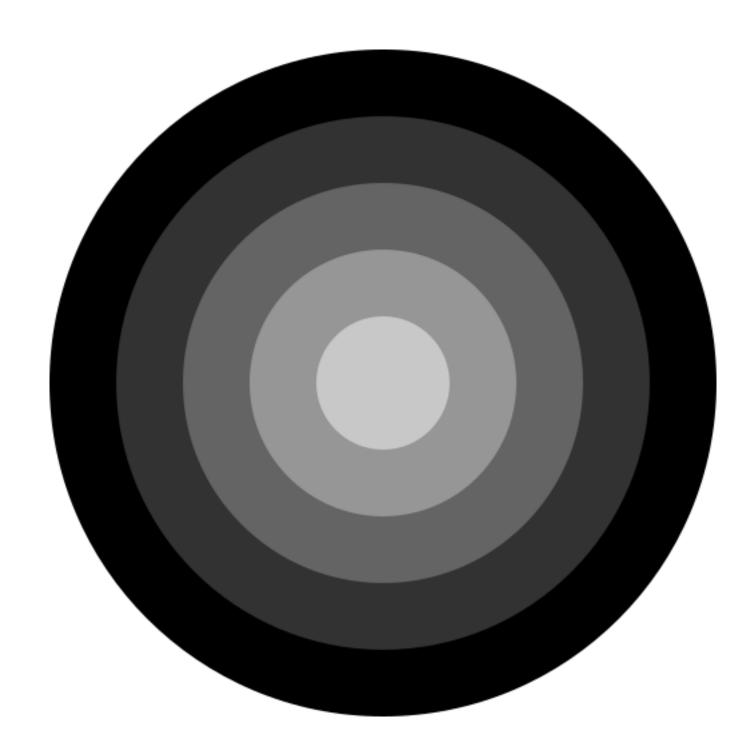
```
package main
import (
    "crypto/md5"
    "os"
    "github.com/ajstarks/gensvg"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
   height = 500.0
func colorhash(s string) (int, int, int) {
   hash := md5.New()
    hash.Write([]byte(s))
    v := hash.Sum(nil)
   return int(v[0]), int(v[1]), 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()
```



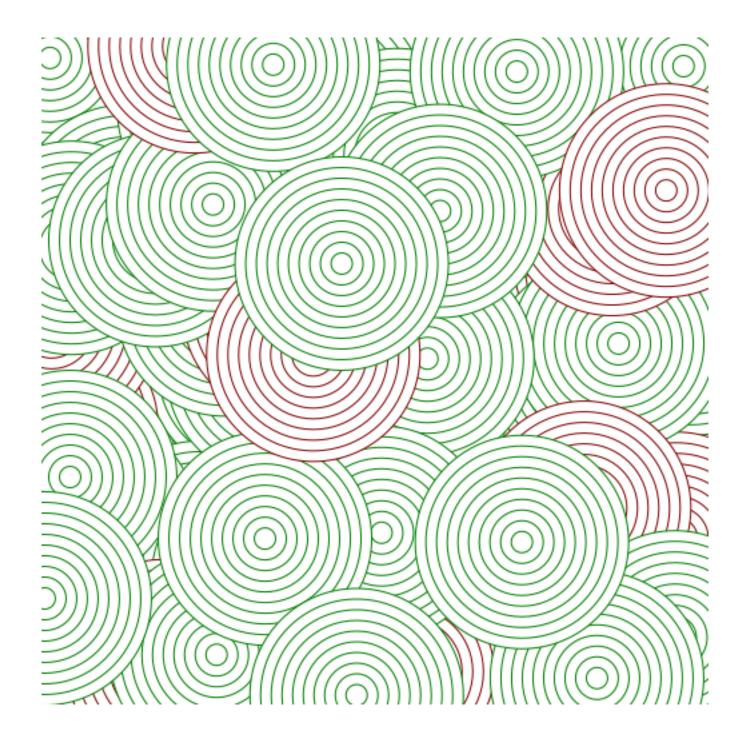
```
package main
import (
    "fmt"
    "math/rand"
    "os"
    "time"
    "github.com/ajstarks/gensvg"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
    height = 500.0
func main() {
   rand.Seed(time.Now().Unix())
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height)
    canvas.Gstyle("stroke-width:10")
    for i := 0.0; i < width; i++ {
        r := rand.Intn(255)
        canvas.Line(i, 0, rand.Float64()*width, height,
            fmt.Sprintf("stroke:rgb(%d,%d,%d); opacity:0.39", r, r, r))
    canvas.Gend()
    canvas.End()
```



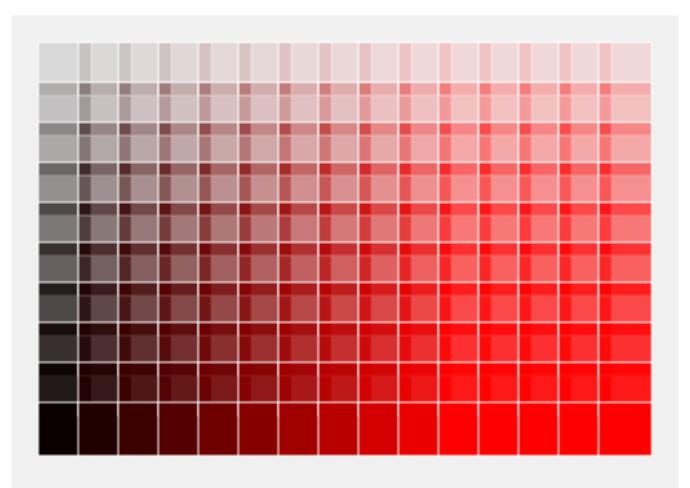
```
package main
import (
    "os"
    "github.com/ajstarks/gensvg"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
   height = 500.0
func main() {
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height, "fill:white")
   r := height / 2
    for g := 0; g < 250; g += 50 {
        canvas.Circle(width/2, width/2, r, canvas.RGB(g, g, g))
       r = 50
    canvas.End()
```



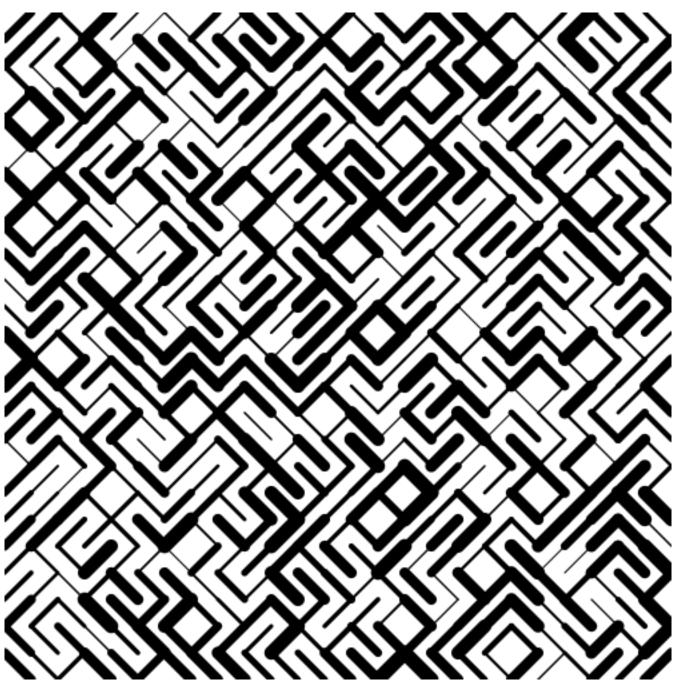
```
package main
import (
    "math/rand"
    "os"
    "github.com/ajstarks/gensvg"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
   height = 500.0
func main() {
    canvas.Start(width, height)
    canvas.Gstyle("fill:white")
    var color string
   radius := 80.0
    step := 8.0
    for i := 0; i < 200; i++ {
        if i%4 == 0 {
            color = "rgb(127,0,0)"
        } else {
            color = "rgb(0,127,0)"
        x, y := rand.Float64()*(width), rand.Float64()*(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/gensvg"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
   height = 500.0
func main() {
   y := 20.0
    v := 10
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height, "fill:rgb(240,240,240)")
    canvas.Gstyle("stroke:white")
    for x := 20.0; 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/gensvg"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
    height = 500.0
func main() {
    tiles, maxstroke := 25.0, 10.0
    rand.Seed(time.Now().Unix())
    canvas.Start(width, height)
    linecaps := []string{"butt", "round", "square"}
    strokefmt := "stroke-width:%.2f"
    lcfmt := "stroke:black;stroke-linecap:%s"
    canvas.Gstyle(fmt.Sprintf(lcfmt, linecaps[rand.Intn(3)]))
    var sw string
    for y := 0.0; y < tiles; y++ {
        for x := 0.0; x < tiles; x++ \{
            px := width / tiles * x
            py := height / tiles * y
            if rand.Intn(100) > 50 {
                sw = fmt.Sprintf(strokefmt, rand.Float64()*(maxstroke)+1)
                canvas.Line(px, py, px+width/tiles, py+height/tiles, sw)
            } else {
                sw = fmt.Sprintf(strokefmt, rand.Float64()*(maxstroke)+1)
                canvas.Line(px, py+height/tiles, px+width/tiles, py, sw)
            }
    canvas.Gend()
    canvas.End()
```

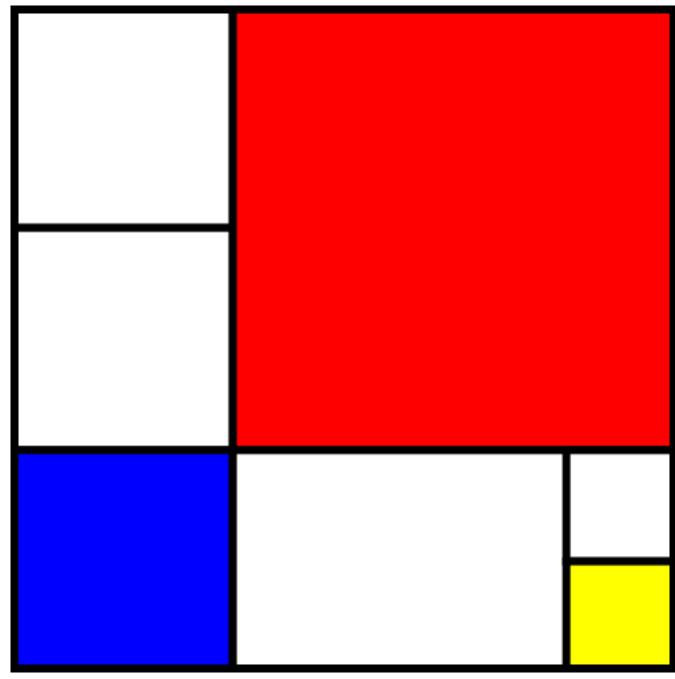


```
package main
import (
    "fmt"
    "github.com/ajstarks/gensvg"
    "os"
func main() {
   xp := []float64{50, 70, 70, 50, 30, 30}
    yp := []float64{40, 50, 75, 85, 75, 50}
    xl := []float64{0, 0, 50, 100, 100}
    yl := []float64{100, 40, 10, 40, 100}
    bgcolor := "rgb(227,78,25)"
    bkcolor := "rgb(153,29,40)"
    stcolor := "rgb(65,52,44)"
    stwidth := 12.0
    stylefmt := "stroke:%s;stroke-width:%.2f;fill:%s"
    canvas := gensvg.New(os.Stdout)
    width, height := 500.0, 500.0
    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 := 0.0; y < height; y += 130 {
        for x := -50.0; x < width; x += 100 {
            canvas.Use(x, y, "#unit")
            canvas.Use(x, y, "#runit")
        }
    canvas.Gend()
    canvas.End()
```



[8]

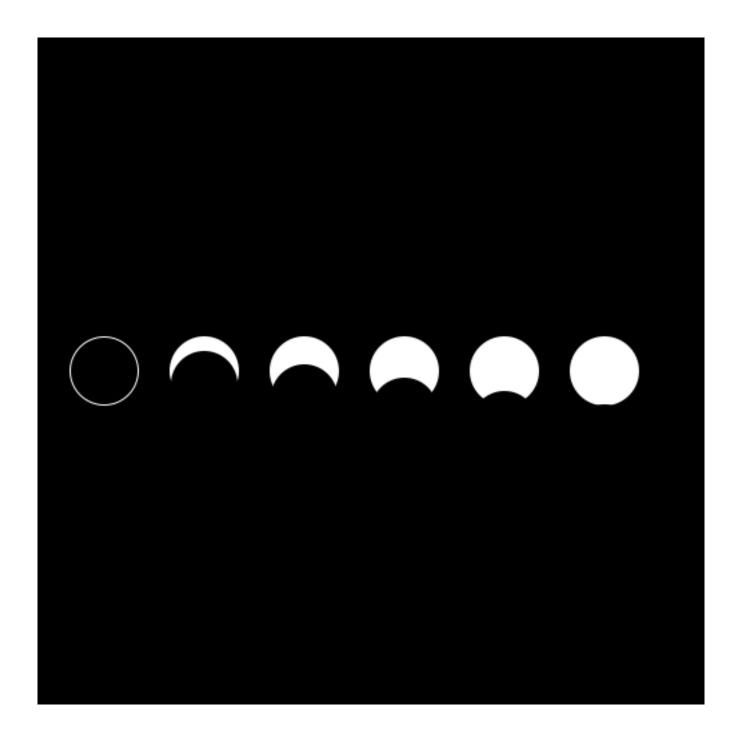
```
package main
import (
    "os"
    "github.com/ajstarks/gensvg"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
    height = 500.0
// Piet Mondrian - Composition in Red, Blue, and Yellow
func main() {
    w3 := width / 3
    w6 := w3 / 2
    w23 := w3 * 2
    canvas.Start(width, height)
    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()
```



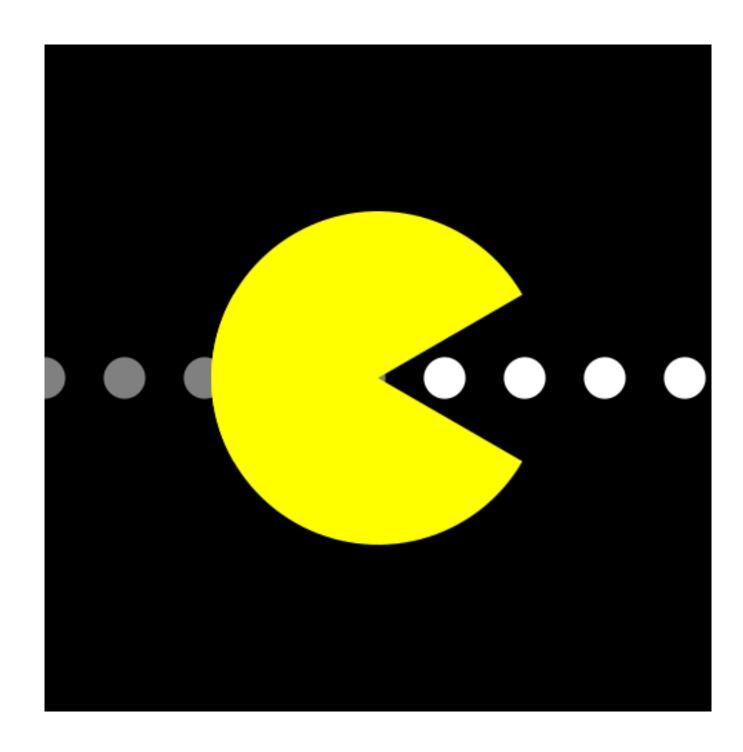
```
package main
import (
    "math/rand"
    "os"
    "time"
    "github.com/ajstarks/gensvg"
)
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
   height = 500.0
// inspired by Gerhard Richter's 256 colors, 1974
func main() {
   rand.Seed(time.Now().Unix())
    canvas.Decimals=0
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height)
    w, h, gutter := 24.0, 18.0, 5.0
   rows, cols := 16.0, 16.0
    top, left := 20.0, 20.0
    for r, x := 0.0, left; r < rows; r++ {
       for c, y := 0.0, 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()
```



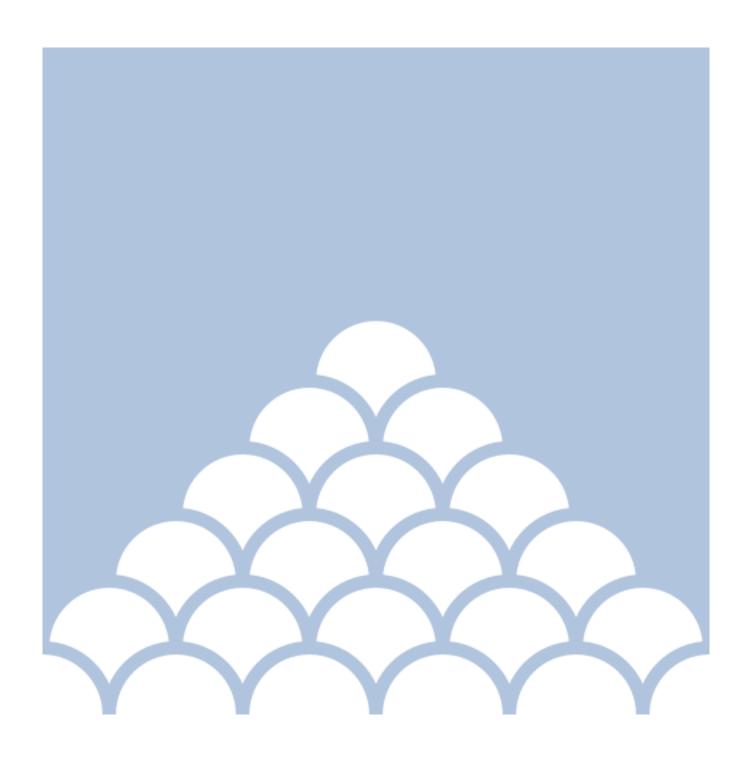
```
package main
import (
    "os"
    "github.com/ajstarks/gensvg"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
   height = 500.0
func main() {
   h2 := height / 2
   r := width / 20
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height)
    for x, y := 50.0, h2; x < 450; 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/gensvg"
    "os"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
   height = 500.0
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 := 0.0; 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/gensvg"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
   height = 500.0
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:%.2fpx"
    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()
```



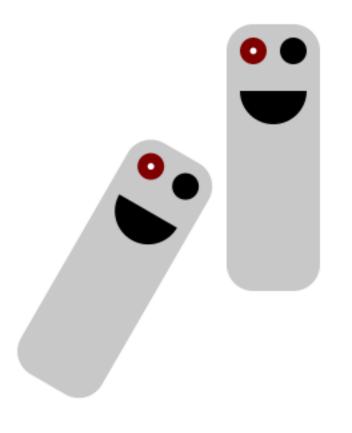
```
package main
import (
    "os"
    "github.com/ajstarks/gensvg"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
   height = 500.0
func cloud(x, y, r float64, style string) {
    small := r / 2
    medium := (r * 6) / 10
    canvas.Gstyle(style)
    canvas.Circle(x, y, r)
    canvas.Circle(x+r, 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()
```

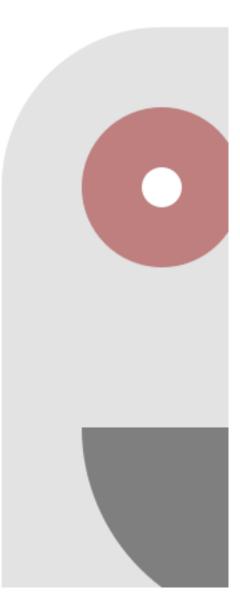


```
package main
import (
    "math/rand"
    "os"
    "time"
    "github.com/ajstarks/gensvg"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
    height = 500.0
func cloud(x, y, r float64, style string) {
    small := r / 2
    medium := (r * 6) / 10
    canvas.Gstyle(style)
    canvas.Circle(x, 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.Float64()*60
        x := rand.Float64()*width
        y := rand.Float64()*height
        cloud(x, y, size, canvas.RGB(red, green, blue))
    canvas.End()
```

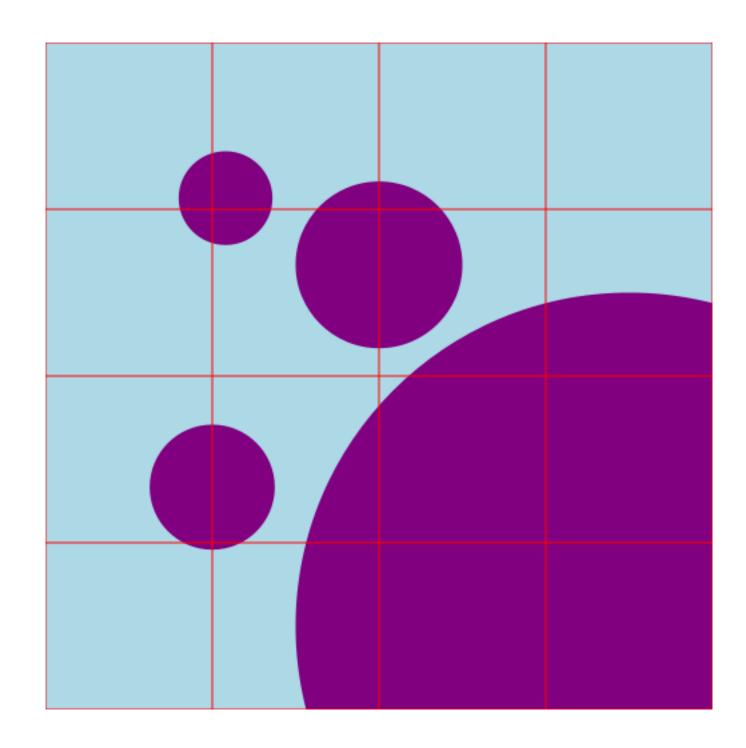


```
package main
import (
    "os"
    "github.com/ajstarks/gensvg"
var canvas = gensvg.New(os.Stdout)
func smile(x, y, r float64) {
   r2 := r * 2
   r3 := r * 3
   r4 := r * 4
    rq := r / 4
    gray := canvas.RGB(200, 200, 200)
   red := canvas.RGB(127, 0, 0)
    canvas.Roundrect(x-r2, y-r2, r*7, 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(500.0, 500)
    canvas.Rect(0, 0, 500.0, 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()
```

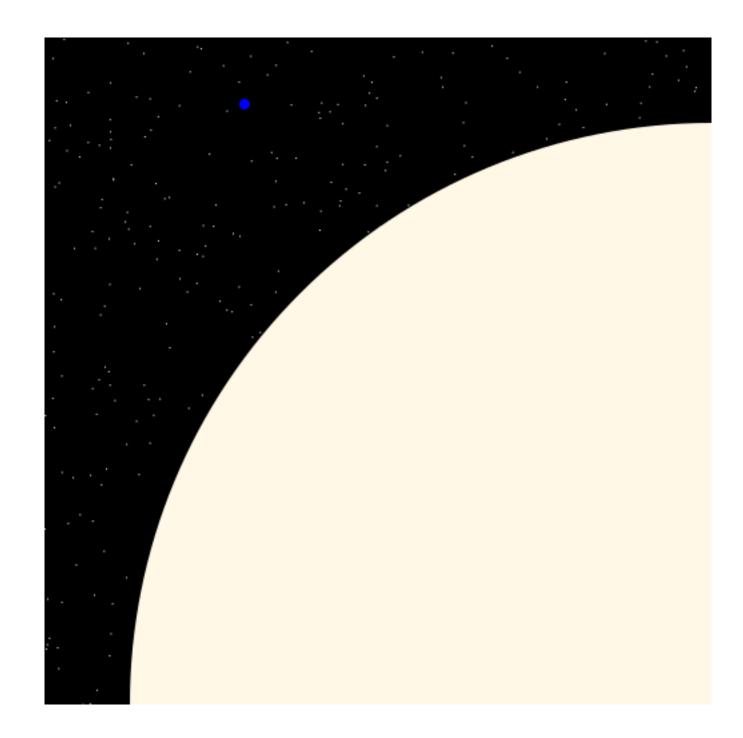




```
package main
import (
    "os"
    "github.com/ajstarks/gensvg"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
   height = 500.0
func dot(x, y, d float64) {
    canvas.Circle(x, y, d/2, "fill:rgb(128,0,128)")
}
// Composition from "Design for Hackers, pg. 129
func main() {
    d1 := height
    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/gensvg"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
   height = 500.0
func main() {
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height, "fill:black")
    for i := 0.0; i < width; i++ {
       x := rand.Float64()*width
       y := rand.Float64()*height
       canvas.Line(x, y, x, y+1, "stroke:white")
    }
    earth := 4.0
    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/gensvg"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
   height = 500.0
func male(x, y, w float64) {
    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 float64) {
    canvas.Circle(x, y, w, "fill:pink")
}
func main() {
    msize := 5.0
    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/gensvg"
    "math/rand"
    "os"
    "time"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
    height = 500.0
func male(x, y, w float64) {
    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 float64) {
    canvas.Circle(x, y, w, "fill:pink")
}
func main() {
   rand.Seed(time.Now().Unix())
    msize := 5.0
    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.Float64()*300)+100, (rand.Float64()*200)+200, rand.Float64()*45)
        male(0, 0, msize)
        canvas.Gend()
    canvas.End()
```

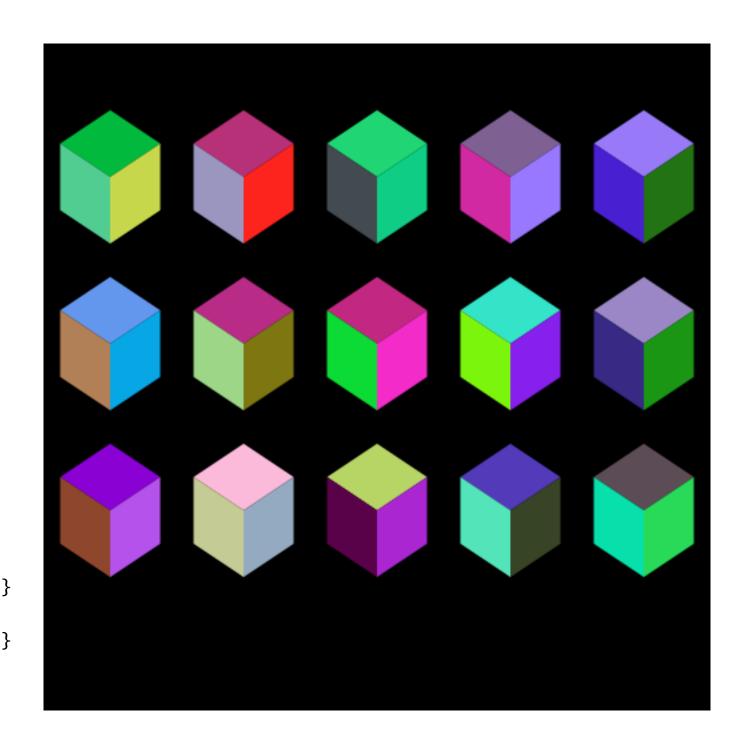
```
package main
import (
    "math/rand"
    "os"
    "time"
    "github.com/ajstarks/gensvg"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
    height = 500.0
func main() {
    canvas.Start(width, height)
   rand.Seed(time.Now().Unix())
    for i := 0; i < 100; i++ {
        fill := canvas.RGBA(
            rand.Intn(255),
            rand.Intn(255),
            rand.Intn(255),
            rand.Float64())
        canvas.Rect(
            rand.Float64()*width,
            rand.Float64()*height,
            rand.Float64()*100,
            rand.Float64()*100,
            fill)
    canvas.End()
}
```



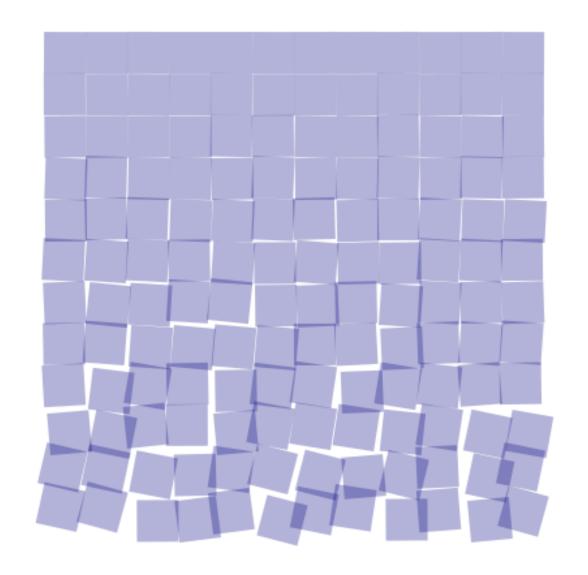
```
package main
import (
    "math/rand"
    "os"
    "time"
    "github.com/ajstarks/gensvg"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
    height = 500.0
func main() {
    canvas.Start(width, height)
   rand.Seed(time.Now().Unix())
    for i := 0; i < 100; i++ {
        fill := canvas.RGBA(
            rand.Intn(255),
            rand.Intn(255),
            rand.Intn(255),
            rand.Float64())
        canvas.Ellipse(
            rand.Float64()*width,
            rand.Float64()*height,
            rand.Float64()*100,
            rand.Float64()*100,
            fill)
    canvas.End()
}
```



```
package main
import (
    "math/rand"
    "os"
    "time"
    "github.com/ajstarks/gensvg"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
    height = 500.0
func randcolor() string {
    return canvas.RGB(rand.Intn(255),rand.Intn(255),rand.Intn(255))
func rcube(x, y, l float64) {
    12, 13, 14, 16, 18 := 1*2, 1*3, 1*4, 1*6, 1*8
    tx := []float64{x, x + (l3), x, x - (l3), x}
    ty := []float64{y, y + (l2), y + (l4), y + (l2), y}
    lx := []float64{x - (l3), x, x, x - (l3), x - (l3)}
    ly := []float64{y + (l2), y + (l4), y + (l8), y + (l6), y + (l2)}
    rx := []float64{x + (l3), x + (l3), x, x, x + (l3)}
    ry := []float64{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/gensvg"
    "math/rand"
    "os"
func tloc(x, y, s float64, r, d float64) (float64, float64) {
    padding := 2 * s
    return (padding + (x * s) - (.5 * s) + (r * d)),
        (padding + (v * s) - (.5 * s) + (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 := 12.0, 12.0, 32.0
    rndStep, dampen := .22, 0.45
    width, height := (columns+4)*sqrsize, (rows+4)*sqrsize
    canvas := gensvg.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, 0.0; y <= rows; y++ {
        randsum += float64(y) * rndStep
        for x := 1.0; 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()
```

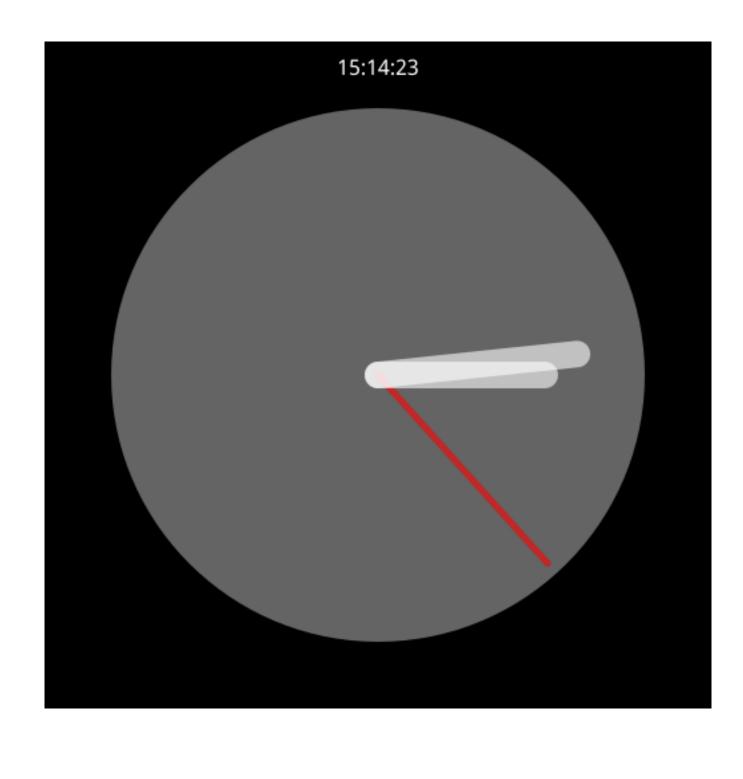


```
package main
import (
    "fmt"
    "math/rand"
    "os"
    "time"
    "github.com/ajstarks/gensvg"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
    height = 500.0
func randarc(aw, ah, sw float64, f1, f2 bool) {
    colors := []string{"red", "green", "blue", "gray"}
    afmt := "stroke:%s;stroke-opacity:%.2f;stroke-width:%.2fpx;fill:none"
    begin, arclength := rand.Float64()*(aw), rand.Float64()*(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.Float64()*(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()
```

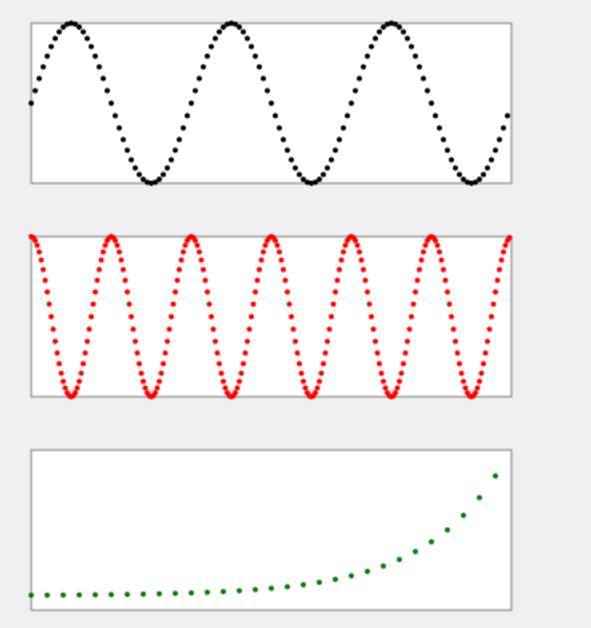
```
package main
import (
    "fmt"
    "os"
    "github.com/ajstarks/gensvg"
var (
            = gensvg.New(os.Stdout)
    canvas
             = 500.0
    width
   height
            = 500.0
    maxlevel = 5
    colors = []string{"red", "orange", "yellow", "green", "blue"}
func branch(x, y, r float64, 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
import (
    "fmt"
    "github.com/ajstarks/gensvg"
    "math"
    "os"
    "time"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
    height = 500.0
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 := (width) * 0.38
    minpct := (width) * 0.30
    hourpct := (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, (math.Cos(sec)*secpct)+w2, (math.Sin(sec)*secpct)+h2, "stroke:red;stroke-width:5")
    canvas.Line(w2, h2, (math.Cos(min)*minpct)+w2, (math.Sin(min)*minpct)+h2)
    canvas.Line(w2, h2, (math.Cos(hour)*hourpct)+w2, (math.Sin(hour)*hourpct)+h2)
    canvas.Gend()
```

canvas.End()

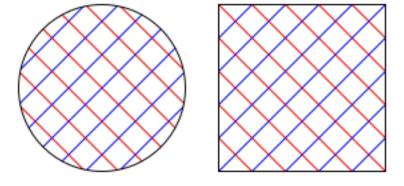


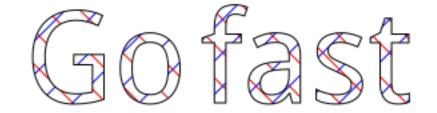
```
package main
import (
    "math"
    "os"
    "github.com/ajstarks/gensvg"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
    height = 500.0
func vmap(value float64, l1 float64, h1 float64,
    l2 float64, h2 float64) float64 {
    return l2 + (h2-l2)*(value-l1)/(h1-l1)
}
func plotfunc(left, top, w, h float64, 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 := vmap(x, min, max, float64(left), float64(w+left))
        dy := 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()
```



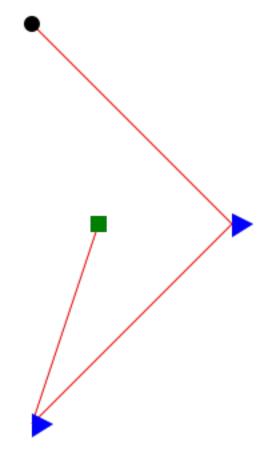
```
package main
import (
    "fmt"
    "os"
                                                                                Cost
                                                                                                    100
    "github.com/ajstarks/gensvg"
                                                                             Timing
                                                                                                                     250
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
                                                                            Sourcing
    height = 500.0
                                                                          Technology
                                                                                                             175
type Measure struct {
   name string
    value float64
}
func (data *Measure) meter(x, y, w, h float64) {
    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("%-0.f", 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 := 100.0, 50.0, 20.0, 50.0
    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()
```

```
package main
import (
    "fmt"
    "os"
    "github.com/ajstarks/gensvg"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
   height = 500.0
func main() {
    pct := 5.0
    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%0.f,%0.f", pw, ph), "stroke:red")
    canvas.Path(fmt.Sprintf("M%0.f,0 l-%0.f,%0.f", 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()
}
```

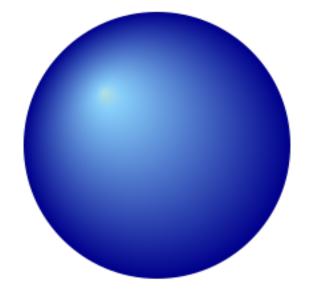




```
package main
import (
    "os"
    "github.com/ajstarks/gensvg"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
   height = 500.0
func main() {
    canvas.Start(width, height)
    canvas.Def()
    canvas.Marker("dot", 10, 10, 16, 16)
    canvas.Circle(10, 10, 6, "fill:black")
    canvas.MarkerEnd()
    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 := []float64\{100, 250, 100, 150\}
    y := []float64{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/gensvg"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
   height = 500.0
func main() {
    rg := []gensvg.Offcolor{
        {1, "powderblue", 1},
        {10, "lightskyblue", 1},
        {100, "darkblue", 1},
    lg := []gensvg.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/gensvg"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
   height = 500.0
func main() {
    fonts := []string{
        "Helvetica", "Times", "Courier",
        "sans-serif", "serif", "monospace",
    sizes := []float64{10, 12, 16, 21, 24, 36, 48}
    largest := sizes[len(sizes)-1]
    gutter := largest + (largest / 3)
    margin := gutter * 2
    y := 100.0
    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("%0.f", s), fmt.Sprintf("font-size:%0.fpt", s))
            x += s * 2
        }
        canvas.Gend()
        y += gutter
    canvas.End()
```

 $_{\scriptscriptstyle{\text{Times }10 \; 12 \; 16 \; 21 \; 24 \; 36 \; 48}}$  $_{\text{\tiny Courier 10\,12\,16\,21\,24\,36}}\,48$ sans-serif 10 12 16 21 24 36 48 serif 10 12 16 21 24 36 **48** monospace 10 12 16 21 24 36 48

```
package main
                                                              00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
import (
   "fmt"
                                                          2600 * ♣ ♣ ♠ 🕆 ~ ★ ★ ≰ 【 ⊙ 品 ♡ ♂ ♂ ☎ ☞
   "os"
                                                          2610 X X _ ` △ ▲ ♣ • • • • b
                                                              2620
   "github.com/ajstarks/gensvg"
                                                          2630 ≡ ≡ ≡ ≡ ≡ ≡ ₩ 🛱 🛱 🖾 🕒 🌣 🕽
                                                              ♀ Ѣ ♂ Ҹ ћ ₩ ф Рорqrs
var (
                                                          2650 w x y z 當 當 🚊 🗐
   canvas = gensvg.New(os.Stdout)
                                                          2660 ♠ ♡ ◇ ♣ ♤ ♥ ♦ ♧ ♨ ఎ ♪ ♬ ♬
   width = 500.0
                                                         height = 500.0
                                                         )
                                                          2690 戸 ▶ ♦ 🚼 🔉 🛣 🖪 🗣 🜴 🕆 🕸 🍲 ☆ ∋ ∈
func main() {
                                                         top, left, fontsize := 50.0, 100.0, 16.0
                                                         26B0 □ ♂ ♀ ? ♀ * ↓ ≴ $ ★ ⊻ ⊼ ᇃ μ ¶ ?
   xoffset, yoffset := 25.0, 25.0
                                                         rows, cols := 16, 16
   glyph := 0x2600
                                                         26D0 🕏 \varTheta ⊗ № ¾ 🕏 Φ Φ 🛍 (||:: ▽ (|| 🗵 🖸 🖚
   font := "Symbola"
                                                         26E0 TL & Ö ★ ★ ★ ♥ ♥ TA 凸 ∴ ☆ ☆ ☆
   stylefmt := "font-family:%s;font-size:%.2fpx;text-anchor:middle"
                                                         26F0 ♠ ♠ Ã Ä ♣ Æ [] 渗 且É Ê 8 点Ё ◘ ≥
   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()
```

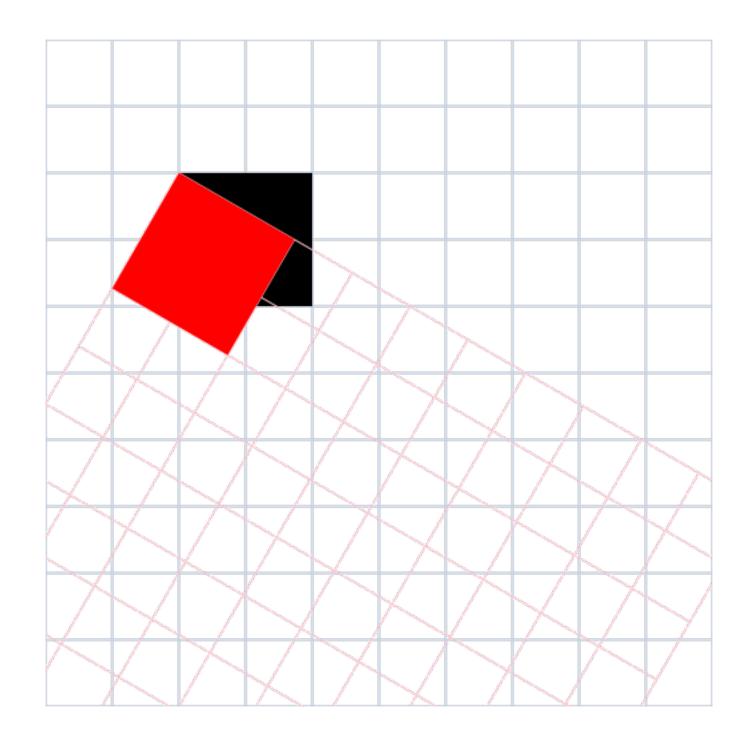
```
package main
import (
    "os"
    "github.com/ajstarks/gensvg"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
    height = 500.0
func main() {
    lorem := []string{
        "Lorem ipsum dolor sit amet, consectetur adipiscing",
        "elit, sed do eiusmod tempor incididunt ut labore 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 := 14.0, 16.0
    x, y := 50.0, 20.0
    tsize := float64(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

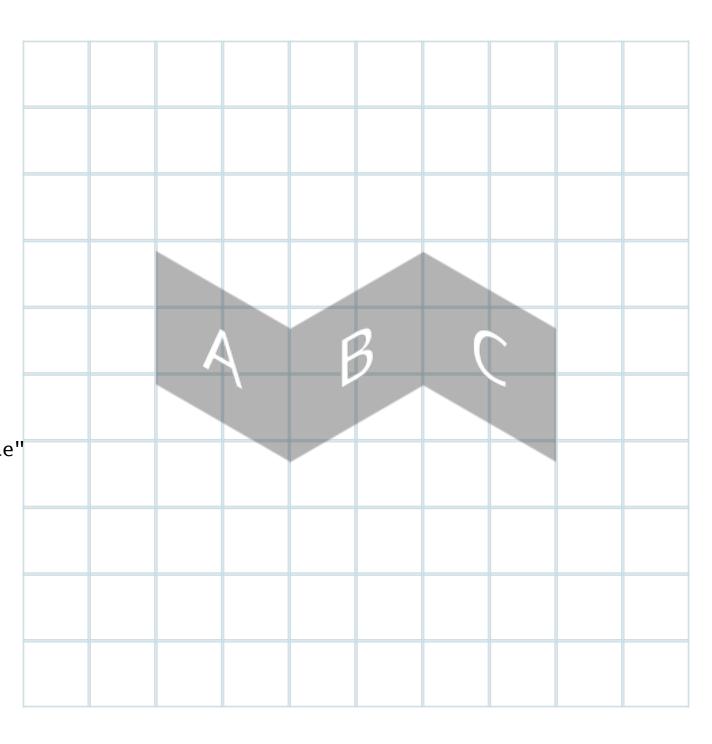
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum 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/gensvg"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
   height = 500.0
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()
```

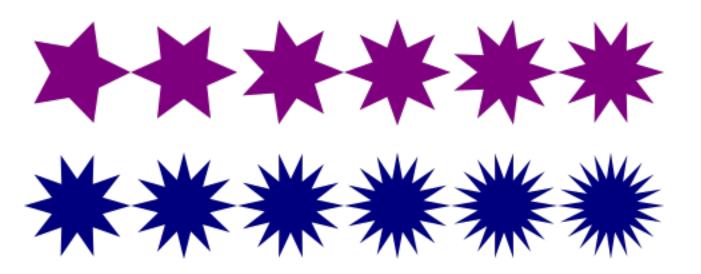


```
package main
import (
    "fmt"
    "os"
    "github.com/ajstarks/gensvg"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
   height = 500.0
func sky(x, y, w, h, a float64, s string) {
    tfmt := "font-family:sans-serif;font-size:%.2fpx;text-anchor:middle"
    canvas.Gstyle(fmt.Sprintf(tfmt, 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()
```



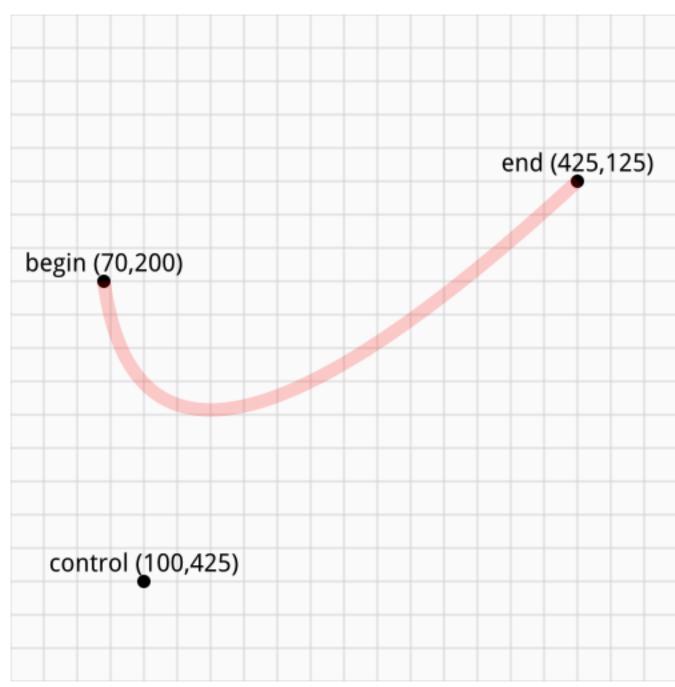
```
package main
import (
    "fmt"
    "os"
    "github.com/ajstarks/gensvg"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
    height = 500.0
)
func gear(x, y, w, h, n, l, m float64, color string) {
    canvas.Gstyle(fmt.Sprintf("fill:none;stroke:%s;stroke-width:%.2f", color, n/2))
    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/gensvg"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
    height = 500.0
// See: http://vormplus.be/blog/article/processing-month-day-4-stars
func star(xp, yp float64, n int, inner, outer float64, style string) {
    xv, yv := make([]float64, n*2), make([]float64, n*2)
    angle := math.Pi / float64(n)
    for i := 0; i < n*2; i++ {
        fi := float64(i)
        if i%2 == 0 {
            xv[i] = math.Cos(angle*fi) * outer
            yv[i] = math.Sin(angle*fi) * outer
        } else {
            xv[i] = math.Cos(angle*fi) * inner
            yv[i] = 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 := 50.0, 5; i <= 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 (
    "math"
    "os"
    "github.com/ajstarks/gensvg"
var canvas, width, height = gensvg.New(os.Stdout), 500.0, 500.0
func polar(cx, cy, r, t float64) (float64, float64) {
    return cx + (r * math.Cos(t)), cy + (r * math.Sin(t))
}
func star(x, y float64, n int, inner, outer float64, style string) {
    t, xv, yv := math.Pi/float64(n), make([]float64, n*2), make([]float64, n*2)
    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, 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/gensvg"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
    height = 500.0
func coord(x, y, size float64, label string) {
    tstyle := "text-anchor:middle;font-size:14pt"
    offset := size + (size / 2)
    canvas.Text(x, y-offset,
        fmt.Sprintf("%s (%d,%d)", label, int(x), int(y)), tstyle)
    canvas.Circle(x, y, size)
}
func showcurve(bx, by, cx, cy, ex, ey float64) {
    dotsize := 5.0
    sw := dotsize * 2
    cfmt := "stroke:%s;stroke-width:%.2f;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()
```



```
package main
import (
    "fmt"
    "os"
    "github.com/ajstarks/gensvg"
var (
    canvas = gensvg.New(os.Stdout)
                                                                               (70,200)
    width = 500.0
    height = 500.0
func coord(x, y, size float64) {
    offset := size * 2
    canvas.Text(x, y-offset, fmt.Sprintf("(%d,%d)", int(x), int(y)),
        "font-size:50%;text-anchor:middle")
    canvas.Circle(x, y, size, "fill-opacity:0.3")
}
                                                                                  (100,425)
func makepath(x, y, sx, sy, cx, cy, ex, ey float64, 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)
The "dandy" to have text on a P

```
package main
import (
    "fmt"
    "os"
    "github.com/ajstarks/gensvg"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
   height = 500.0
func main() {
    canvas.Start(width, height)
    opacity := 1.0
    for x := 0.0; 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"
    "os"
    "github.com/ajstarks/gensvg"
var canvas = gensvg.New(os.Stdout)
func main() {
    gutter, nc, iw, ih := 10.0, 2.0, 200.0, 112.0
    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%int(nc) == 0 {
            x = gutter
            y += ih + gutter
        }
        canvas.Image(x, y, int(iw), int(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/gensvg"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
   height = 500.0
func tf(x, y float64, s string, size float64) {
    canvas.Text(x, y, s, fmt.Sprintf("font-size:%gpt", size))
}
func main() {
    x, y := width/2, 35.0
    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)
    v += 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)
    y += 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 AN ARTIST

```
package main
import (
    "github.com/ajstarks/gensvg"
    "os"
var (
    canvas = gensvg.New(os.Stdout)
    width = 500.0
    height = 500.0
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)
    // 0
    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()
```

```
package main
import (
    "os"
    "github.com/ajstarks/gensvg"
func main() {
    width, height := 500.0, 500.0
    csize := width / 20
    duration := 5.0
    repeat := 10.0
    canvas := gensvg.New(os.Stdout)
    canvas.Start(width, height)
    canvas.Arc(0, 250, 10, 10, 0, false, true, 500, 250,
        `id="top"`, `fill="none"`, `stroke="red"`)
    canvas.Arc(0, 250, 10, 10, 0, true, false, 500, 250,
        `id="bot"`, `fill="none"`, `stroke="blue"`)
    canvas.Circle(0, 0, csize, `fill="red"`, `id="red-dot"`)
    canvas.Circle(0, 0, csize, `fill="blue"`, `id="blue-dot"`)
    canvas.AnimateMotion("#red-dot", "#top", duration, repeat)
    canvas.AnimateMotion("#blue-dot", "#bot", duration, repeat)
    canvas.End()
}
```

