## decksh reference



Now is the time for all good men to come to the aid **Text** hello, world of the party **Graphics Images** sky I. First First First Lists 2. Second Second Second Third 3. Third Third **Arrows Braces** 

#### Text

```
Left-aligned
                        "..." x y fontsize [font] [color] [op] [link]
               text
                         "..." x y fontsize [font] [color] [op] [link]
Centered
               ctext
End-aligned
                        "..." x y fontsize [font] [color] [op] [link]
               etext
               rtext "..." x y angle fontsize [font] [color] [op] [link]
Rotated
               arctext "..." x y rad a1 a2 fontsize [font] [color] [op] [link]
Text on an arc
               textblock "..." x y w fontsize [font] [color] [op] [link]
Block text
               textfile "file" x y fontsize [font] [color] [op] [spacing]
File contents
Code listing
           textcode "file" x y w fontsize [color]
```

text "..." x y fontsize [font] [color] [op] [link]

abc

abc

text "abc" 20 20 4

text "abc" 75 20 7 "mono" "maroon"



ctext "..." x y fontsize [font] [color] [op] [link]

abc

abc

ctext "abc" 20 20 4

ctext "abc" 80 20 7 "mono" "maroon"

# hello, world (x,y)

etext "..." x y fontsize [font] [color] [op] [link]

abc

abc

etext "abc" 20 20 4

etext "abc" 80 20 7 "mono" "maroon"



rtext "..." x y angle fontsize [font] [color] [op] [link]

abc

abc

ctext 20 20 30 3 ctext 50 20 9



arctext "..." x y radius a1 a2 fontsize [font] [color] [op]

arctext "What is up" 25 20 10 180 90 3 "mono" arctext "This is curvy" 75 30 10 180 360 3 "mono"

(x,y) "Where justice is denied, where poverty is enforced, where ignorance prevails, and where any one class is made to feel that society is an organized conspiracy to oppress, rob and degrade them, neither persons nor property will be safe."

#### textblock "..." x y w fontsize [font] [color] [op]

"Where justice is denied, where poverty is enforced, where ignorance prevails, and where any one class is made to feel that society is an organized conspiracy to oppress, rob and degrade them, neither persons nor property will be safe."

"Where justice is denied, where poverty is enforced, where ignorance prevails, and where any one class is made to feel that society is an organized conspiracy to oppress, rob and degrade them, neither persons nor property will be safe."

textblock "..." 10 35 30 2

textblock "..." 50 35 10 1 "sans" "maroon"

(x,y) This is the contents
of a file. it has lines of text.
Reading is fundamental.

#### textfile "filename" x y fontsize [font] [color] [op]

package main

import "fmt"

textfile "hw.go" 55 35 1.6 "mono" "maroon"

This is the contents of a file. it has lines of text. Reading is fundamental.

func main() {
 fmt.Println("hello, world")
}

textfile "example.txt" 10 35 2

```
package main
import "fmt"

func main() {
   fmt.Println("hello, world")
}
```

#### textcode "filename" x y w fontsize [color]

```
package main

import "fmt"

func main() {
    fmt.Println("hello, world")
}
```

textcode "hw.go" 10 35 25 1.0

```
package main

import "fmt"

func main() {
    fmt.Println("hello, world")
}
```

textcode "hw.go" 55 35 40 1.6 "maroon"

## Graphics

```
Line
                        line
                                   x1 y1 x2 y2 lw [color] [op]
Horizontal line
                        hline
                                   x y w [lw] [color] [op]
Vertical line
                        vline
                                   x y h [lw] [color] [op]
Elliptical arc
                                   x y w h a1 a2 [lw] [color] [op]
                        arc
                                   bx by cx cy ex ey [lw] [color] [op]
Quadratic Bezier
                        curve
Circle
                        circle
                                   x y w [color] [op]
Area circle
                        acircle
                                  x y area [color] [op]
Ellipse
                                  x y w h [color] [op]
                        ellipse
Square
                                   x y w [color] [op]
                        square
Rectangle
                                   x y w h [color] [op]
                        rect
Rounded rectangle
                        rrect
                                   xywhr[color]
Pill shape
                        pill
                                  x y w h [color]
                        polygon
Polygon
                                 "x1 x2...xn" "y1 y2...yn" [lw] [color] [op]
N-sided star
                                   x y sides inner outer [color] [op]
                        star
```



#### line x1 y1 x2 y2 lw [color] [op]



line 70 20 95 30 1.5 "maroon"



#### hline x y w [lw] [color] [op]

\_\_\_\_

hline 40 20 20 1

hline 70 20 20 5 "maroon" 20



#### vline x y h [lw] [color] [op]





#### arc x y w h a1 a2 [lw] [color] [op]





#### curve bx by cx cy ex ey [lw] [color] [op]









#### circle x y w [color] [op]









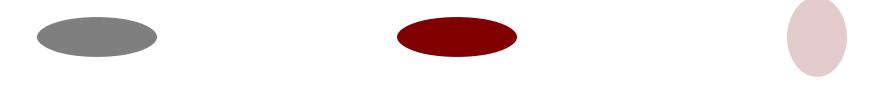
#### acircle x y area [color] [op]







ellipse x y w h [color] [op]





#### square x y w [color] [op]







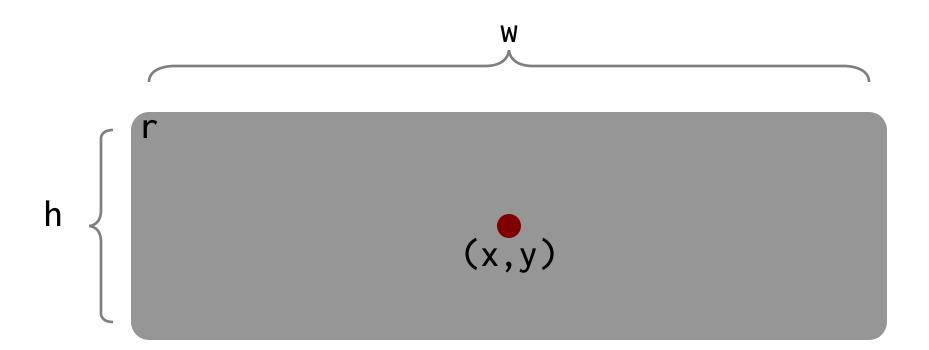


#### rect x y w h [color] [op]









rrect x y w h r [color] [op]







#### pill x y w h [color]



pill 20 20 10 5





polygon "x1 x2...xn" "y1 y2...yn" [color] [op]







#### star x y sides inner outer [color] [op]







## **Images**

Captioned image cimage "file" "caption" x y w h [scale] [link]



#### image "file" x y w h [scale] [link]





image "follow.jpg" 75 25 640 480 30



cimage "file" "caption" x y w h [scale] [link] [capsize]



sky



sky

cimage "cloudy.jpg" "sky" 75 25 640 480 30 "" 1.5

## Lists

Plain list	list	<pre>x y fontsize [font] [color] [op] [spacing]</pre>
Bullet list	blist	x y fontsize [font] [color] [op] [spacing]
Numbered list	nlist	x y fontsize [font] [color] [op] [spacing]
Centered list	clist	<pre>x y fontsize [font] [color] [op] [spacing]</pre>

```
list
(x,y) li "first"
li "second"
li "third"
elist
```

#### list x y fontsize [font] [color] [op] [spacing]

one

two

three

list 20 30 2.5

one

two

three

list 60 30 4 "serif" "maroon" 100 1.0

```
blist
(x,y) li "first"
    li "second"
    li "third"
    elist
```

#### blist x y fontsize [font] [color] [op] [spacing]

- one
- two
- three

blist 20 30 2.5

- one
- two
- three

blist 60 30 4 "serif" "maroon" 100 1.0

```
nlist
(x,y) li "first"
li "second"
li "third"
elist
```

#### nlist x y fontsize [font] [color] [op] [spacing]

I. one

2. two

3. three

nlist 20 30 2.5

1. one

2. two

3. three

nlist 60 30 4 "serif" "maroon" 100 1.0

```
clist
(x,y) li "first"
    li "second"
    li "third"
    elist
```

#### clist x y fontsize [font] [color] [op] [spacing]

first one

second

third and last

clist 20 35 2.5

first one second third and last

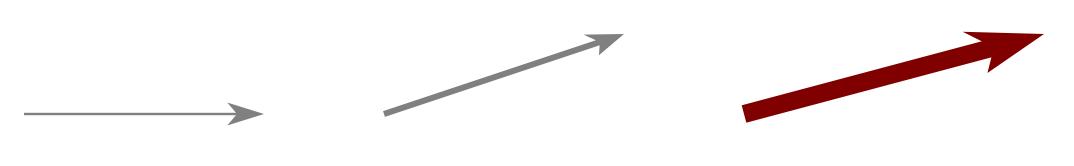
clist 60 30 4 "serif" "maroon" 100 1.0

### Arrows

Straight	arrow	x1 y1 x2 y2 [lw] [aw] [ah] [color] [op]
Left curved	lcarrow	bx by cx cy ex ey [lw] [aw] [ah] [color] [op]
Right curved	rcarrow	bx by cx cy ex ey [lw] [aw] [ah] [color] [op]
Up curved	ucarrow	bx by cx cy ex ey [lw] [aw] [ah] [color] [op]
Down curved	dcarrow	<pre>bx by cx cy ex ey [lw] [aw] [ah] [color] [op]</pre>



#### arrow x1 y1 x2 y2 [lw] [aw] [ah] [color] [op]





## lcarrow bx by cx cy ex ey [lw] [aw] [ah] [color] [op]



lcarrow 30 20 30 35 15 35

lcarrow 70 20 70 35 55 35 1 5 5 "maroon"



## rcarrow bx by cx cy ex ey [lw] [aw] [ah] [color] [op]



rcarrow 50 20 50 35 70 35 1 5 5 "maroon"



## ucarrow bx by cx cy ex ey [lw] [aw] [ah] [color] [op]





ucarrow 15 20 30 20 30 35

rcarrow 50 20 70 20 70 35 1 5 5 "maroon"



## dcarrow bx by cx cy ex ey [lw] [aw] [ah] [color] [op]





dcarrow 15 35 30 30 20

dcarrow 50 35 70 35 70 20 1 5 5 "maroon"

# Braces

Left brace	lbrace	x y fontsize bw bh [lw] [color] [o	p]
Right brace	rbrace	x y fontsize bw bh [lw] [color] [o	p]
Up brace	ubrace	x y fontsize bw bh [lw] [color] [o	p]
Down brace	dbrace	x y fontsize bw bh [lw] [color] [o	p]



## lbrace x y h bw bh [lw] [color] [op]





## rbrace x y h bw bh [lw] [color] [op]





## ubrace x y w bw bh [lw] [color] [op]









dbrace x y w bw bh [lw] [color] [op]



## Miscellaneous

Loop

Polar coordinate (x)

Polar coordinate (y)

Value mapping

Random number

Formatted text

In-line data

for v=

begin end [increment] ... efor

x=polarx

x y radius angle

y=polary

x y radius angle

value=vmap

data min1 max1 min2 max2

value=random

min max

value=format

fmt expression

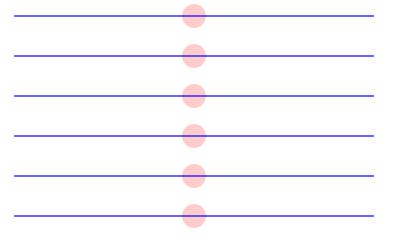
data

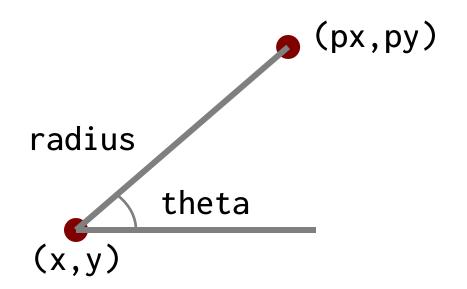
"file" ... edata

for v=begin end [increment]
...items to repeat using v
efor

## for v=begin end [increment]...efor

for v=10 35 5 hline 50 v 30 0.1 "blue" circle 65 v 2 "red" 20 efor





px=polarx x y radius theta
py=polary x y radius theta

cpx=60
cpy=20
px1=polarx cpx cpy 10 30
py1=polary cpx cpy 10 30
line cpx cpy px1 py1
circle cpx cpy 1 "gray"
circle px1 py1 2 "maroon"





## value=vmap data min1 max1 min2 max2

```
yrmin=1776
yrmax=2021
smin=60
smax=90
vp=vmap 1945 yrmin yrmax smin smax
line smin 20 smax 20 0.5 "gray" 20
circle smin 20 1
circle smax 20 1
circle vp 20 2 "maroon"
```

#### value

min max

### value=random min max

rx1=random 5 30
ry1=random 15 35
circle rx1 ry1 3 "maroon"

rx2=random 40 60
ry2=random 15 35
circle rx2 ry2 3 "green"

rx1=random 75 95
ry1=random 15 35
circle rx3 ry3 3 "blue"

## value=format fmt expression

```
v1=100.3
v2=200.234
title=format "%.2f Million (USD)" v1
subtitle=format "Total value: %.2f" v1+v2
ctext title     80 30 4 "sans" "maroon"
ctext subtitle 80 20 3 "sans" "gray"
```

## 100.30 Million (USD)

Total value: 300.53

#### data "filename" ... edata

