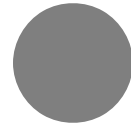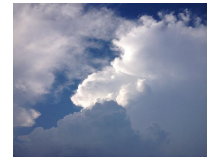# decksh

# reference

# Text

hello, world

Now is the time for all good men to come to the aid of the party

*what's up, Doc?*

# Graphics

# Images
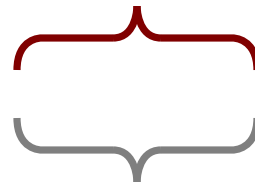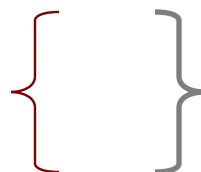
sky

# Lists

- First
- Second
- Third

1. First
2. Second
3. Third

First
Second
Third

# Arrows

# Braces

# *Text*

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

hello, world

(x,y)

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

abc

text "abc" 20 20 4

abc

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

hello, world

(x,y)

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

abc

ctext "abc" 20 20 4

abc

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

hello, world.

(x,y)

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

abc

etext "abc" 20 20 4

abc

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

hello, world

● (x,y)

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

abc

abc

abc

ctext 20 20 30 3

ctext 50 20 90 5

ctext 80 20 270 4 "sans" "maroon"
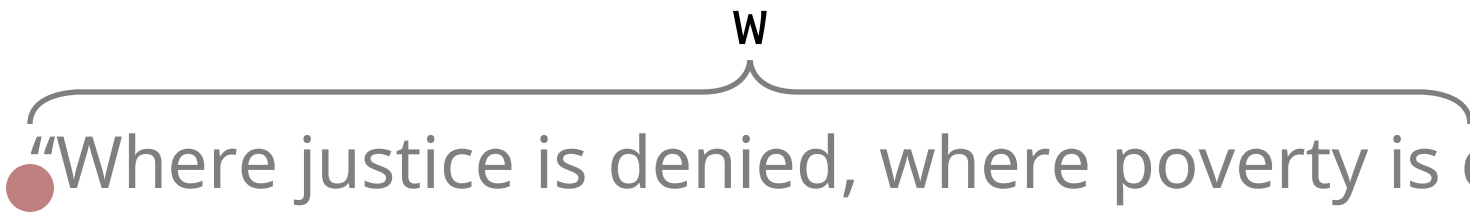
hello there world

a1                    a2

● (x,y)

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

What is up

This is curvy

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

$(x,y)$ W

"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."

```
textblock "..." 10 35 30 2
```

"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 "..." 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]
```

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

```go
package main

import "fmt"

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

```
textfile "example.txt" 10 35 2
```

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

(x,y)

W

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

lw ⎰ 

(x1,y1)  (x2,y2)

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

line 10 20 30 20
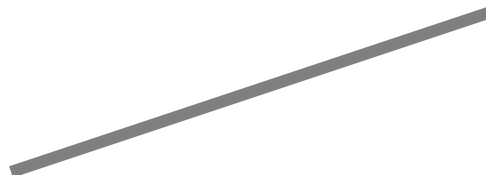
line 40 20 60 30 0.5
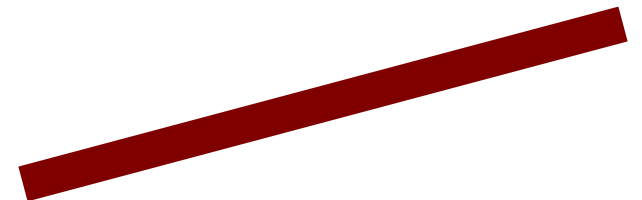
line 70 20 95 30 1.5 "maroon"

w

(x,y)    lw
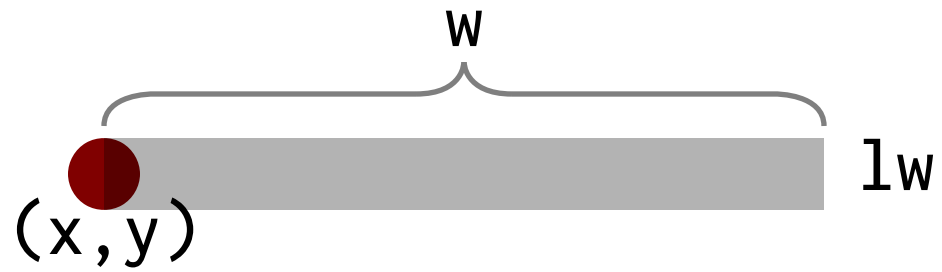
hline x y w [lw] [color] [op]

hline 15 20 10

hline 40 20 20 1

hline 70 20 20 5 "maroon" 20

lw

h

(x,y)
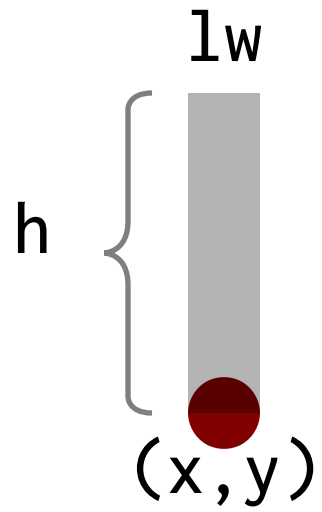
vline x y h [lw] [color] [op]

vline 20 20 15

vline 50 20 15 2
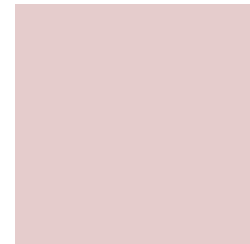
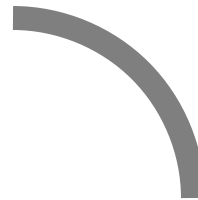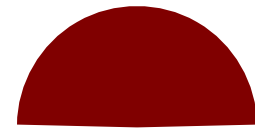vline 80 20 15 10 "maroon" 20

w

h

a2 (x,y) a1
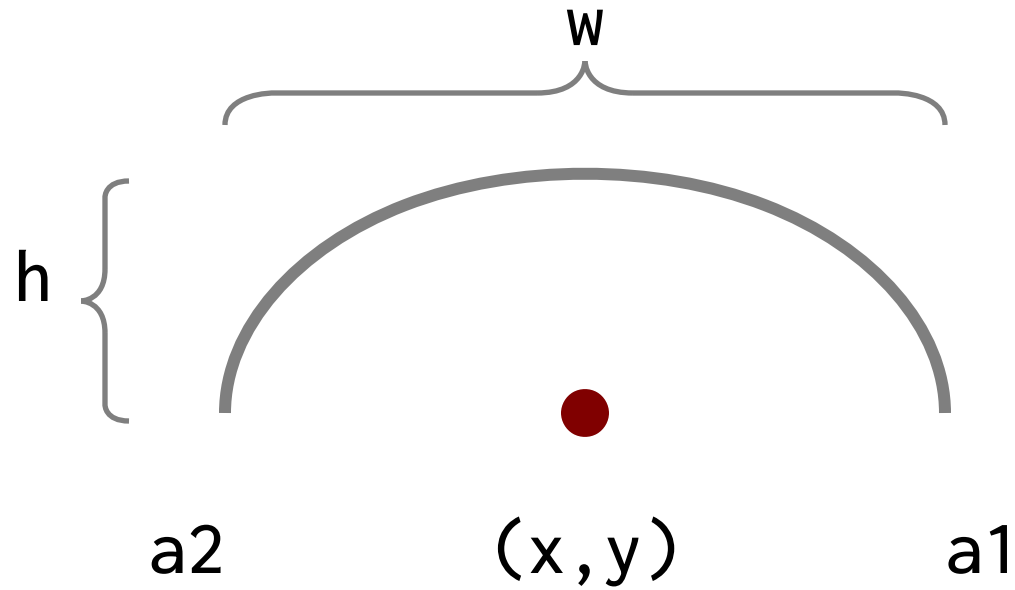
arc x y w h a1 a2 [lw] [color] [op]
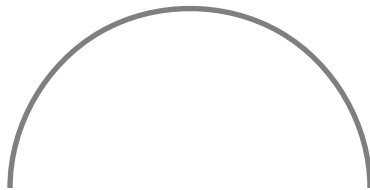
arc 20 20 15 15 0 180

arc 50 20 15 15 0 90 1

arc 80 20 5 5 0 180 5 "maroon"
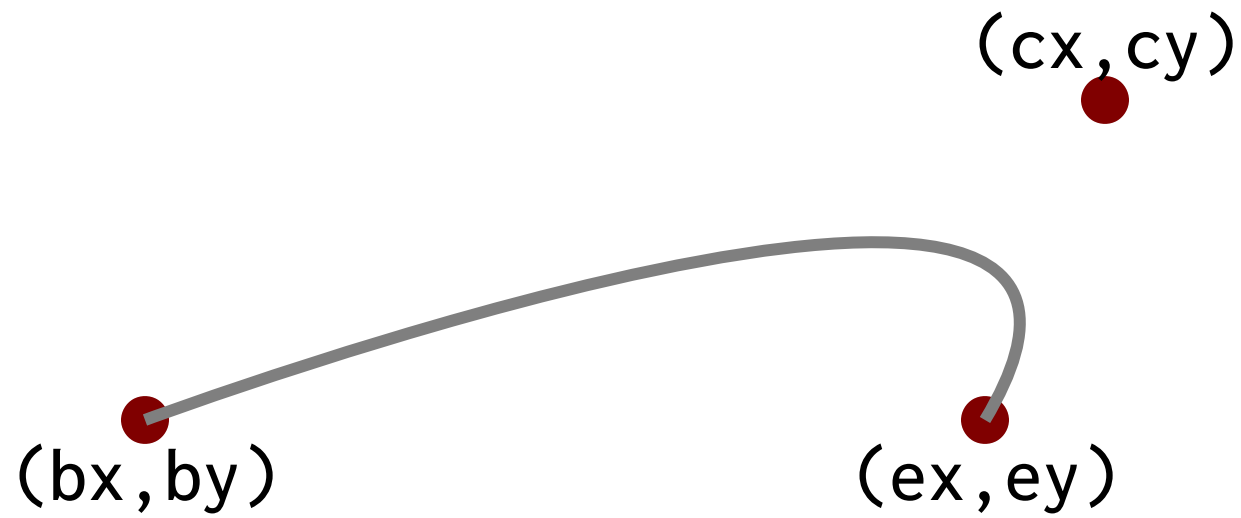
(cx,cy)

(bx,by)

(ex,ey)

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

curve 15 20 25 30 30 25

curve 15 20 25 30 30 25

curve 70 20 70 30 90 25 0.5 "maroon"

W

(x,y)
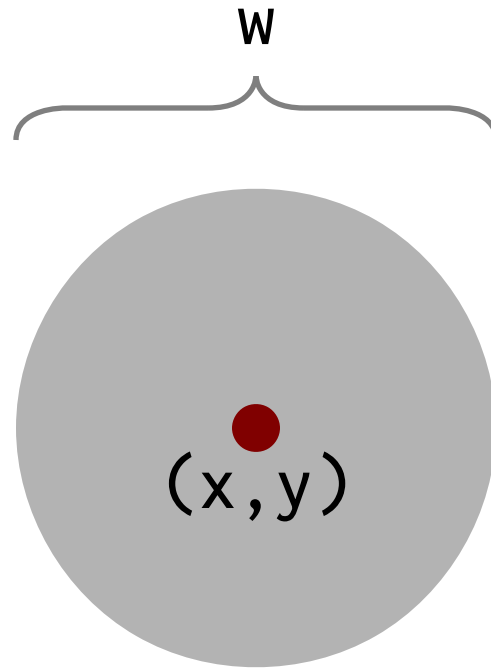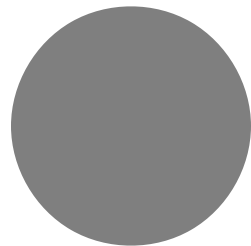
circle x y w [color] [op]

circle 20 20 10
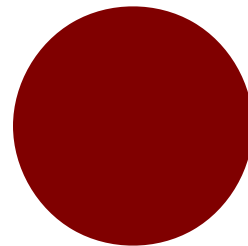
circle 50 20 10 "maroon"
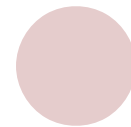
circle 80 20 5 "maroon" 20
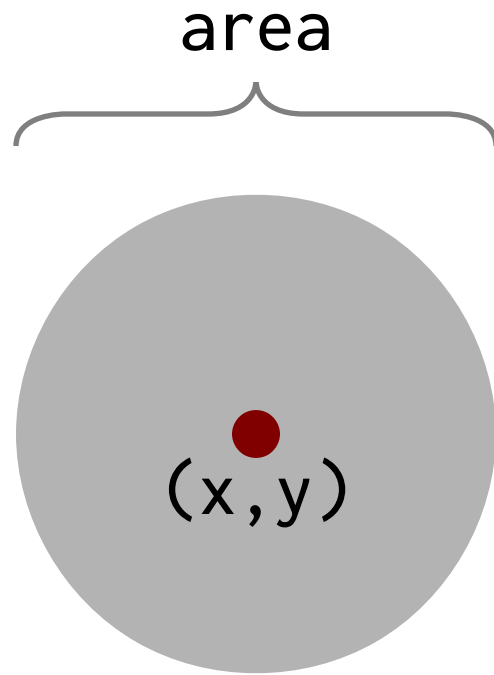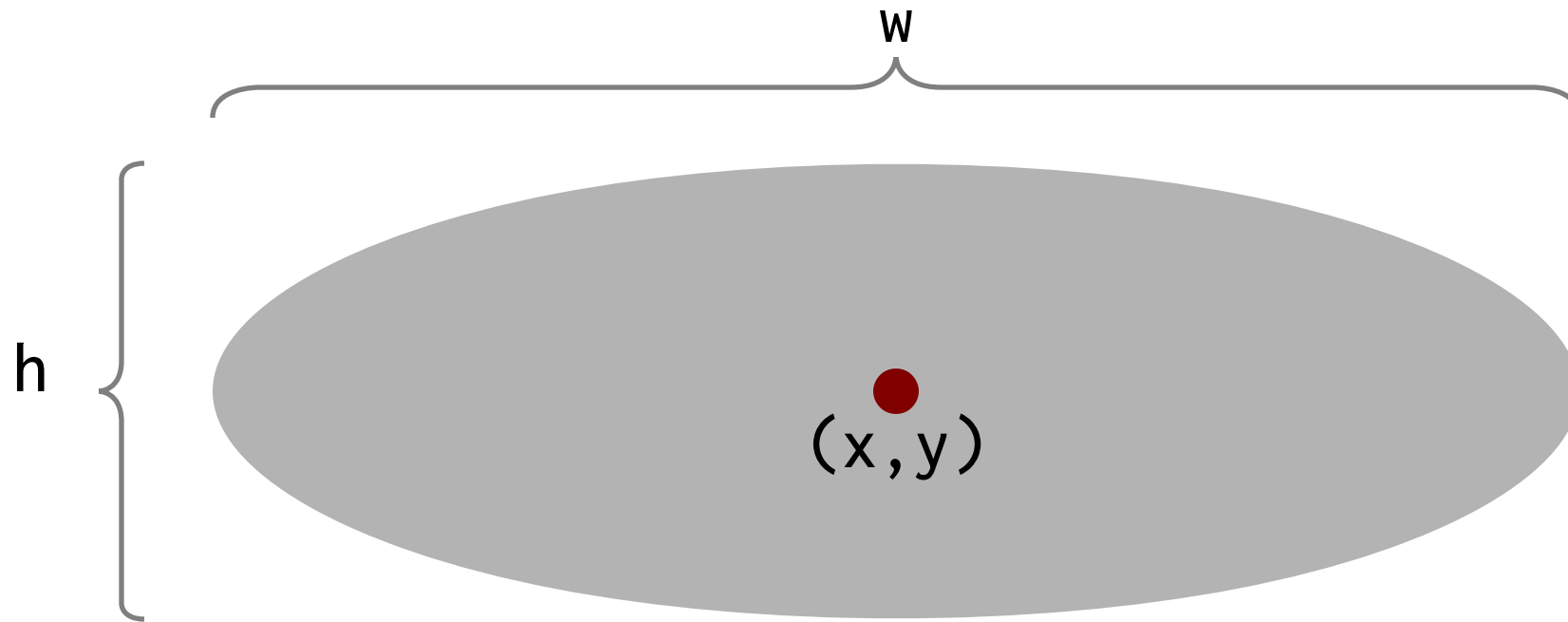
area



acircle x y area [color] [op]

acircle 20 20 10

acircle 50 20 10 "maroon"
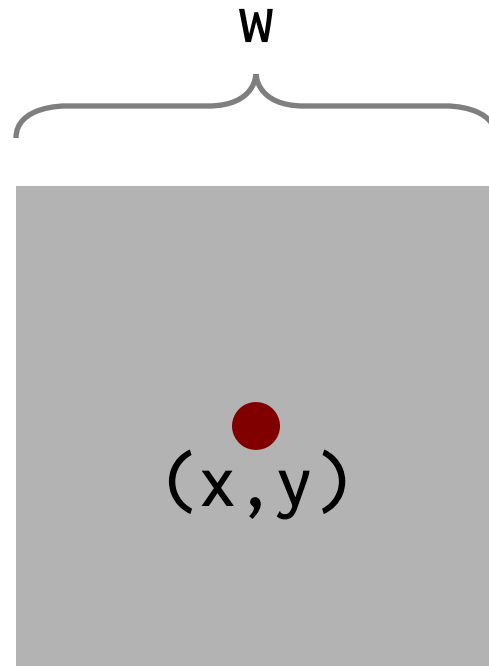
acircle 80 20 5 "maroon" 20

ellipse x y w h [color] [op]

ellipse 20 20 10 5

ellipse 50 20 10 5 "maroon"

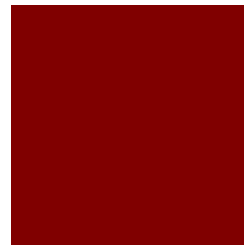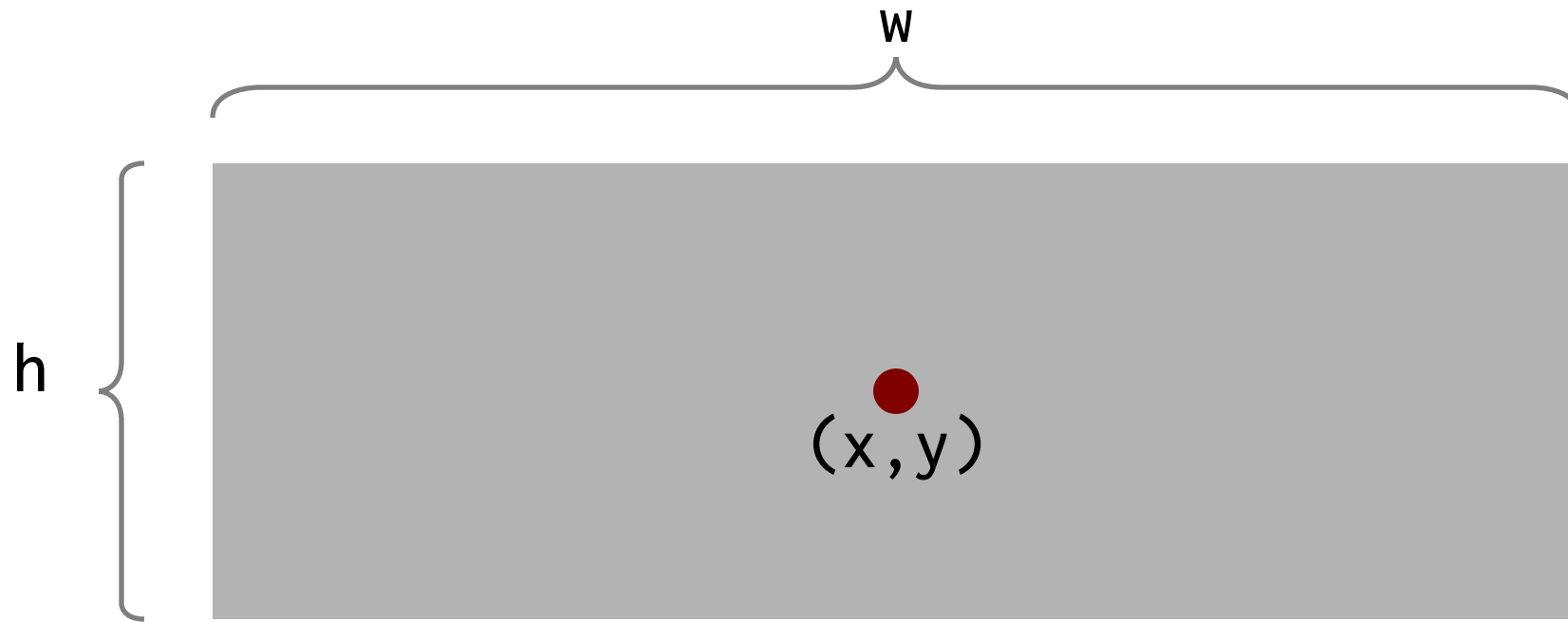ellipse 80 20 5 10 "maroon" 20

w

(x,y)

square x y w [color] [op]

square 20 20 10

square 50 20 10 "maroon"

square 80 20 5 "maroon" 20

w

h

(x,y)

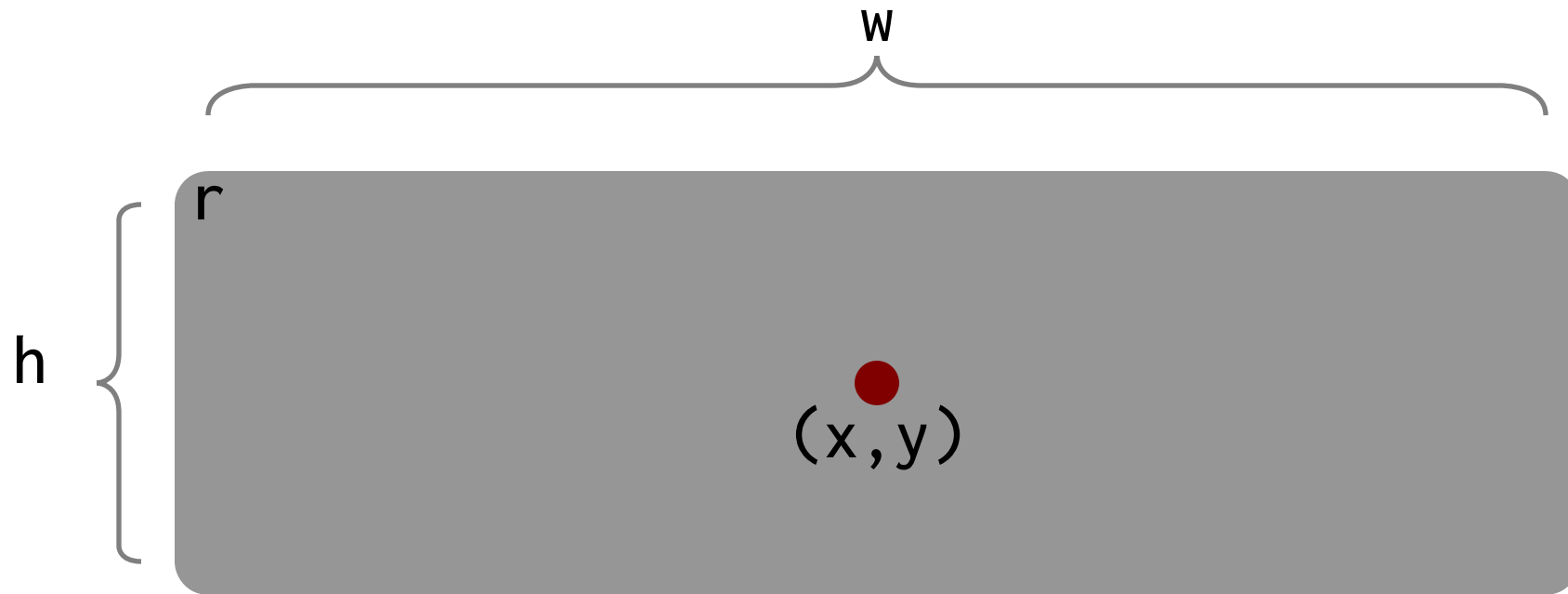rect x y w h [color] [op]

rect 20 20 10 5

rect 50 20 10 5 "maroon"
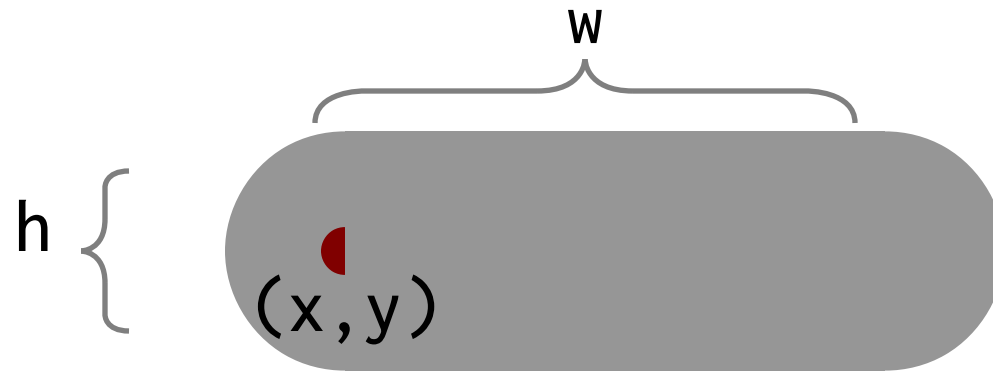
rect 80 20 5 10 "maroon" 20

w

h

r

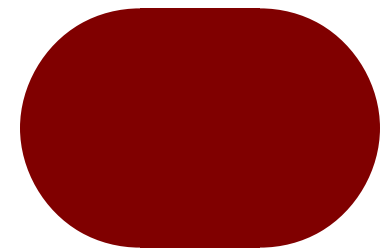(x,y)

rrect x y w h r [color] [op]
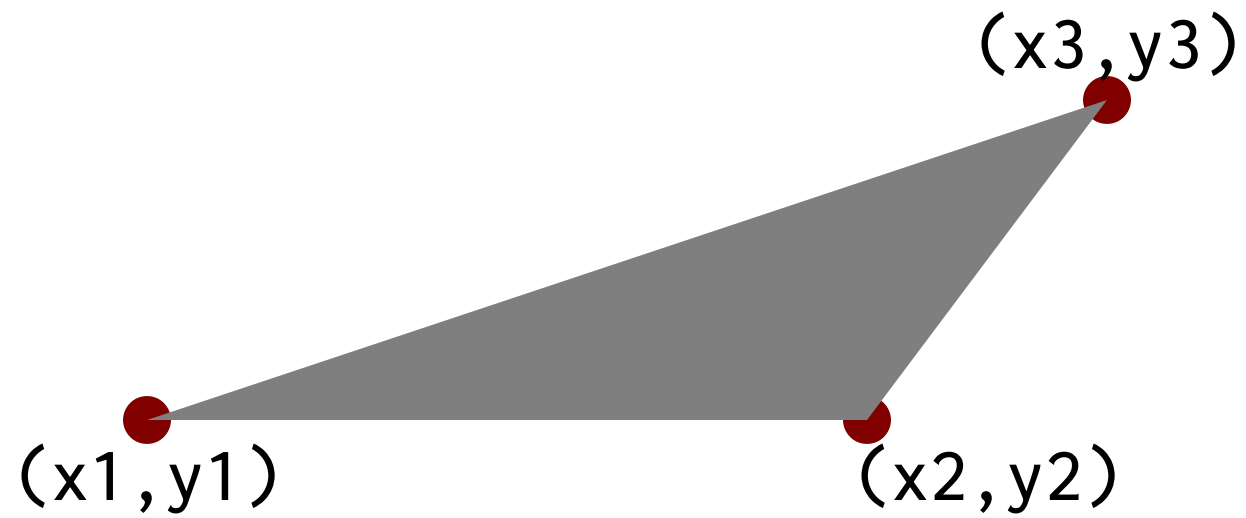
rrect 20 20 10 5 1

rrect 80 20 5 10 1 "maroon"
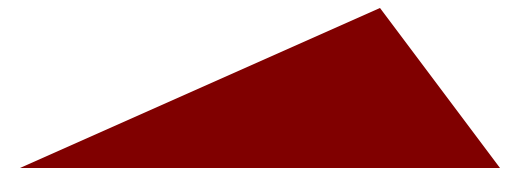
w

h

(x,y)

pill x y w h [color]

pill 20 20 10 5

pill 80 20 5 10 "maroon"
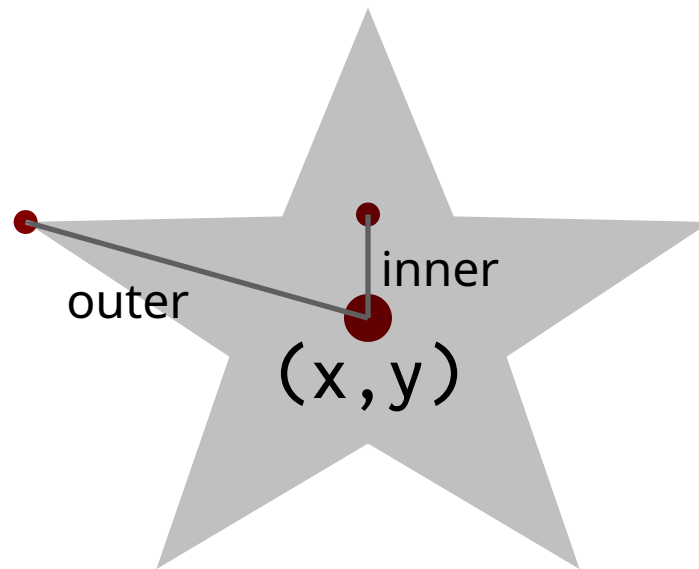
polygon "x1 x2...xn" "y1 y2...yn" [color] [op]

polygon "10 25 20" "20 30 20"

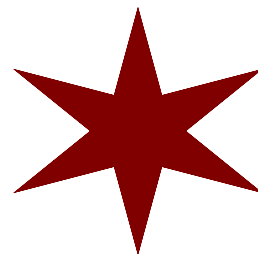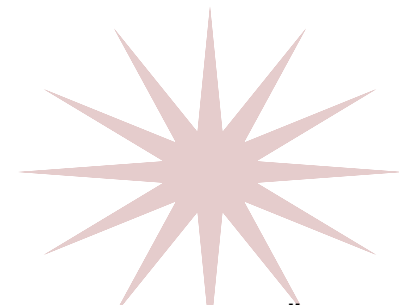polygon "70 85 90" "20 30 20" "maroon"

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

star 20 20 5 2 6

star 50 20 12 2 5 "maroon"

star 80 ey 24 2 8 "maroon" 20

# *Images*

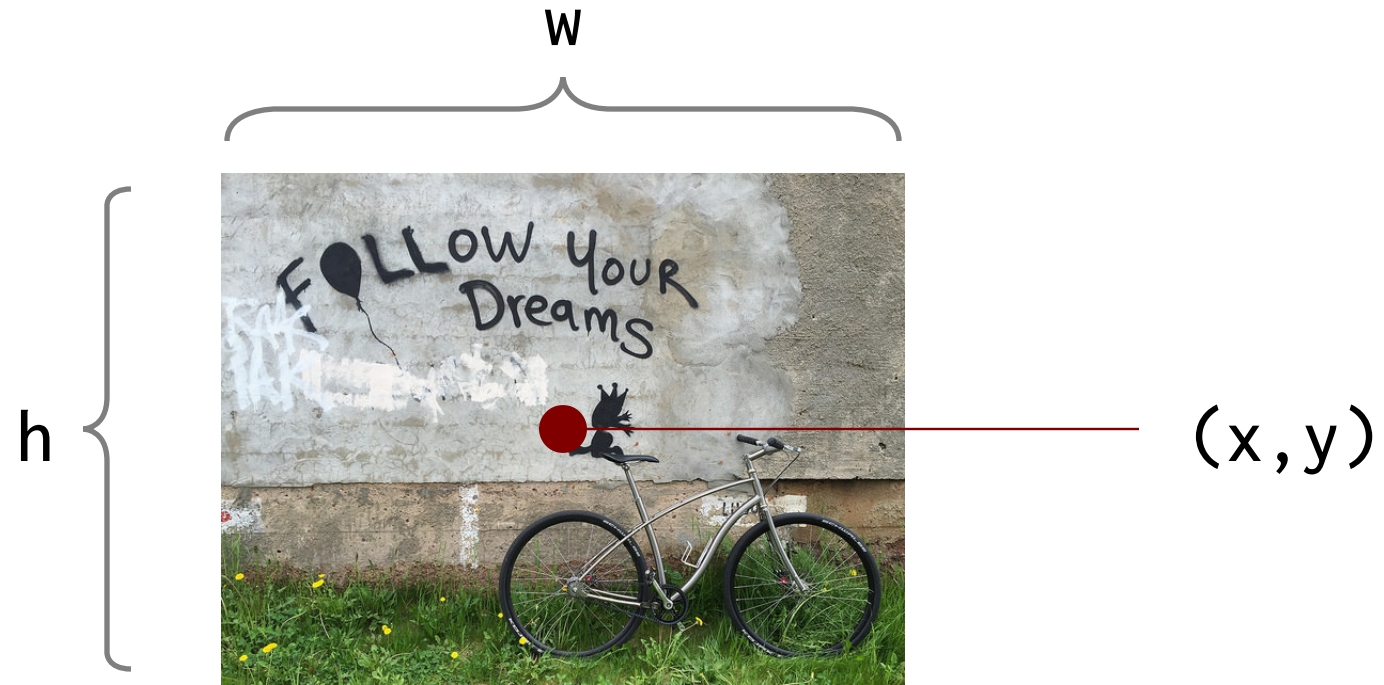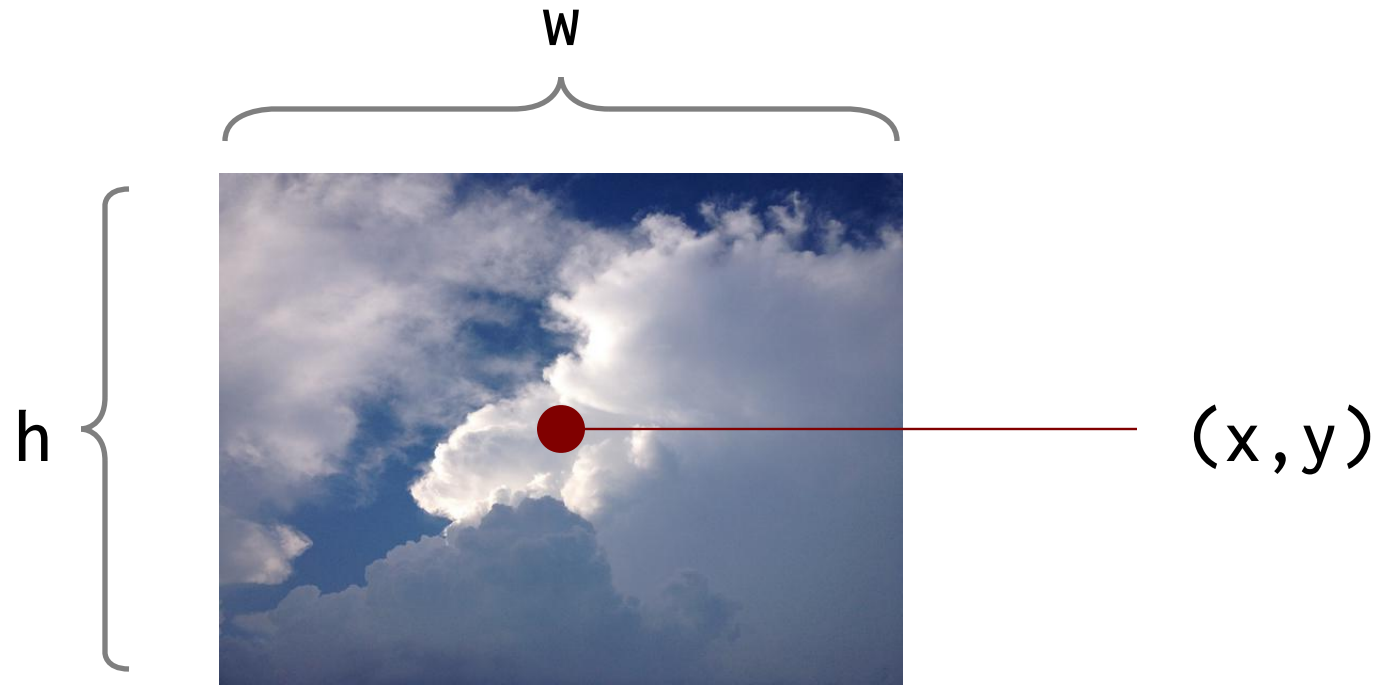| | | |
|---|---|---|
| Image | image | "file" x y w h [scale] [link] |
| Captioned image | cimage | "file" "caption" x y w h [scale] [link] |

w

h

(x,y)

image "file" x y w h [scale] [link]
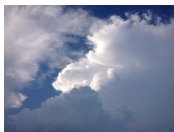
image "follow.jpg" 20 25 640 480 10

image "follow.jpg" 75 25 640 480 30

sky

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

sky

sky

cimage "cloudy.jpg" "sky" 20 25 640 480 10

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

# *Lists*

Plain list         `list`     `x y fontsize [font] [color] [op] [spacing]`

Bullet list       `blist`    `x y fontsize [font] [color] [op] [spacing]`

Numbered list    `nlist`    `x y fontsize [font] [color] [op] [spacing]`

Centered list      `clist`    `x y fontsize [font] [color] [op] [spacing]`

```
    •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]

1. 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*
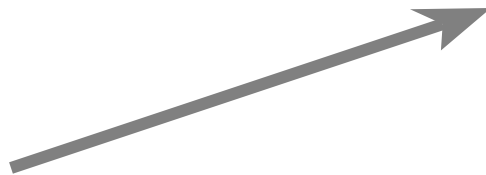*third and last*

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

# *Arrows*

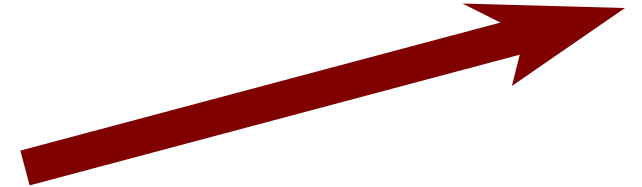| | | |
|---|---|---|
| Straight | `arrow` | x1 y1 x2 y2 [lw] [aw] [ah] [color] [op] |
| Left curved | `lcarrow` | bx by cx cy ex ey [lw] [aw] [ah] [color] [op] |
| Right curved | `rcarrow` | bx by cx cy ex ey [lw] [aw] [ah] [color] [op] |
| Up curved | `ucarrow` | bx by cx cy ex ey [lw] [aw] [ah] [color]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

aw

lw {

ah

(x1,y1)

(x2,y2)

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

arrow 10 20 30 20

arrow 40 20 60 30 0.5

arrow 70 20 95 30 1.5 6 6 "maroon"
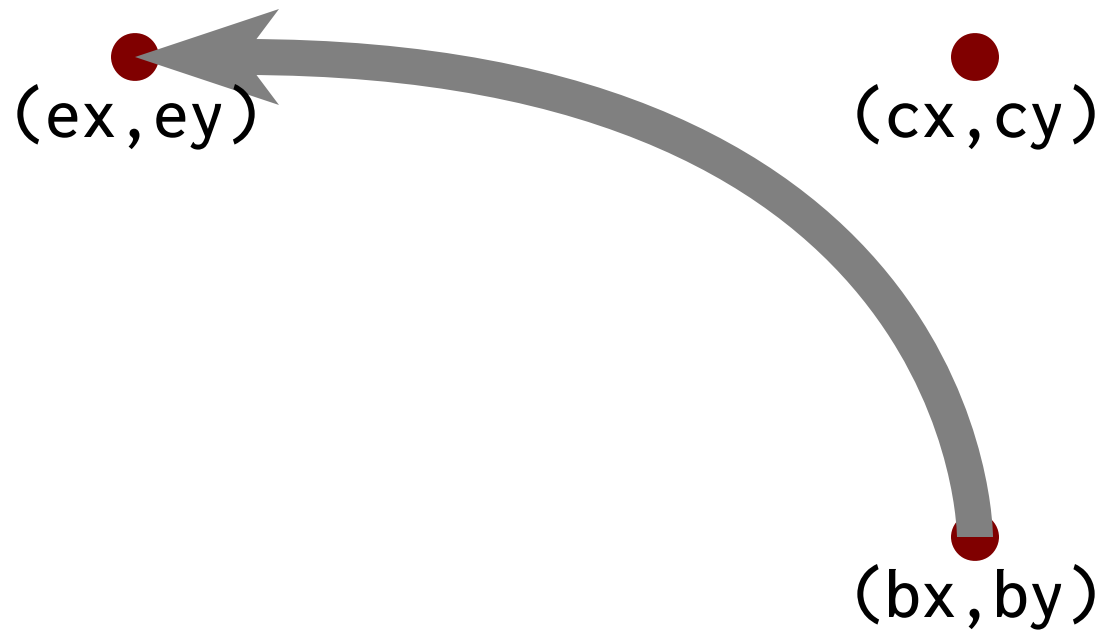
(ex,ey)

(cx,cy)

(bx,by)
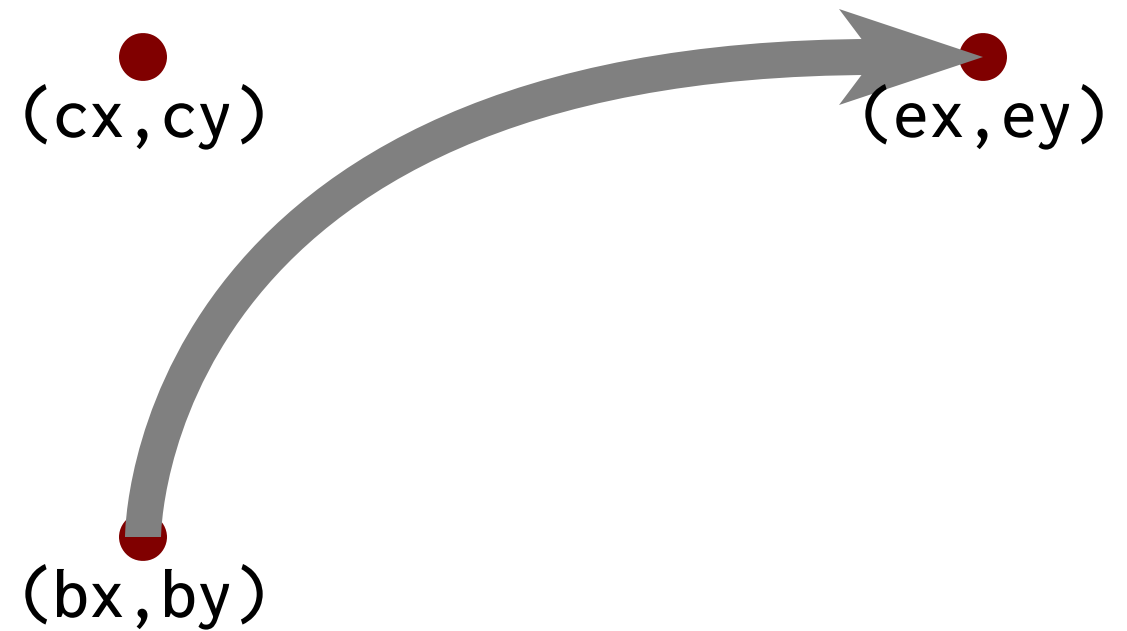
lcarrow bx by cx cy ex ey [lw] [aw] [ah] [color] [op]
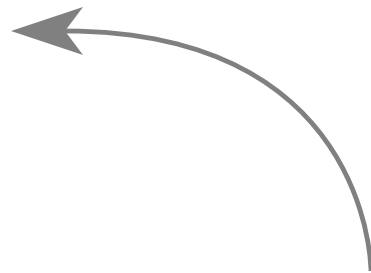
lcarrow 30 20 30 35 15 35
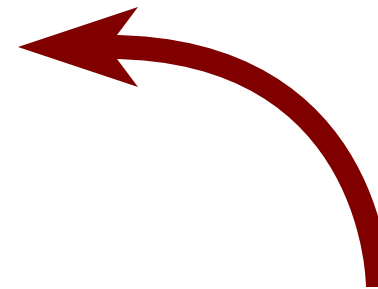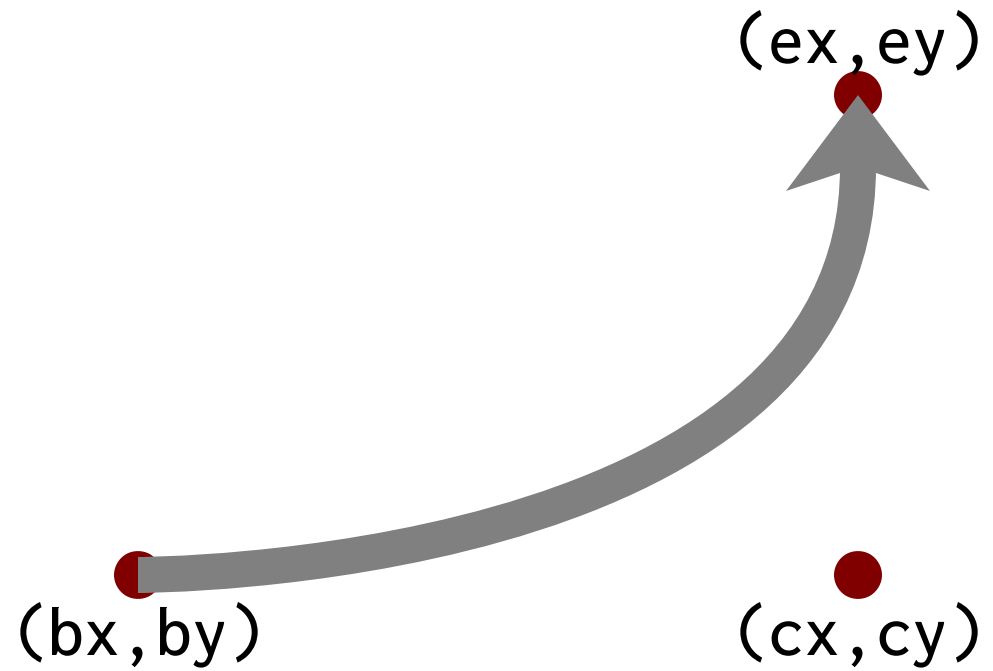
lcarrow 70 20 70 35 55 35 1 5 5 "maroon"

(cx,cy)

(ex,ey)

(bx,by)

rcarrow bx by cx cy ex ey [lw] [aw] [ah] [color] [op]
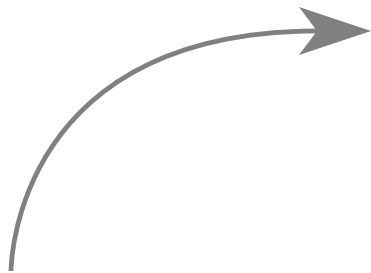
rcarrow 15 20 15 35 30 35

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

(ex,ey)

(bx,by)          (cx,cy)

ucarrow bx by cx cy ex ey [lw] [aw] [ah] [color] [op]
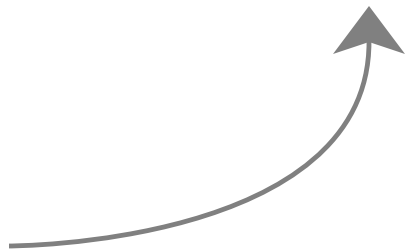
ucarrow 15 20 30 20 30 35

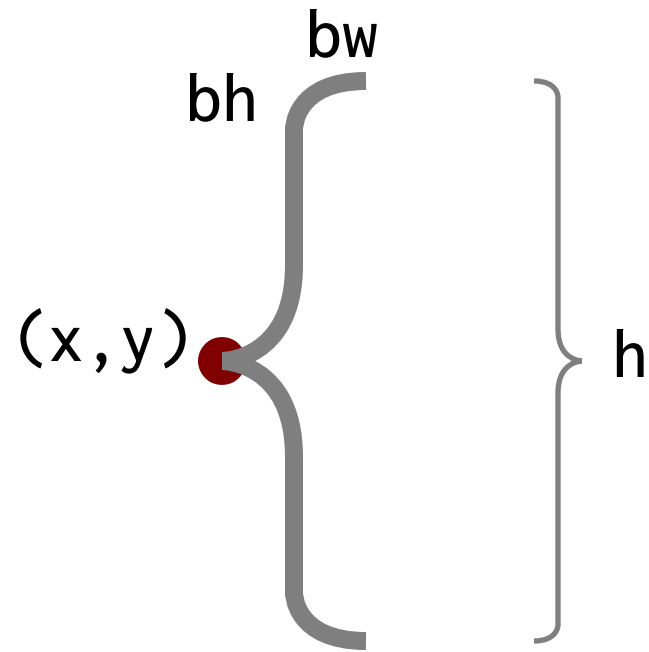rcarrow 50 20 70 20 70 35 1 5 5 "maroon"

(bx,by)　　　　(cx,cy)

(ex,ey)

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] [op]`

Right brace           `rbrace`      `x y fontsize bw bh [lw] [color] [op]`

Up brace              `ubrace`      `x y fontsize bw bh [lw] [color] [op]`

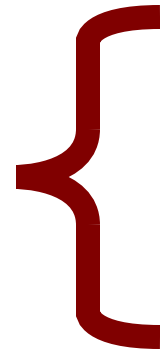Down brace          `dbrace`      `x y fontsize bw bh [lw] [color] [op]`

bw

bh
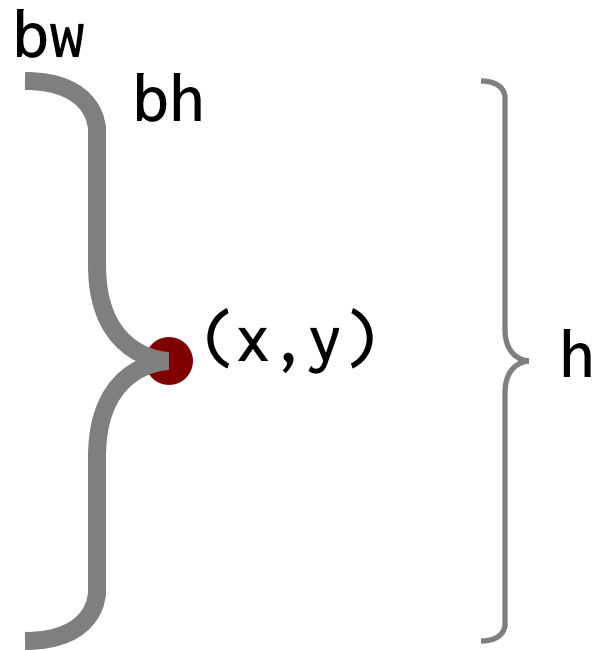
(x,y)

h

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

lbrace 20 25 20 2 2

lbrace 50 25 20 4 4 1

lbrace 80 25 20 6 3 1 "maroon"
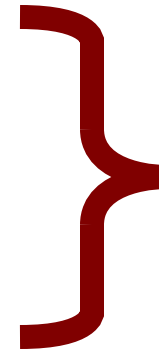
bw

bh

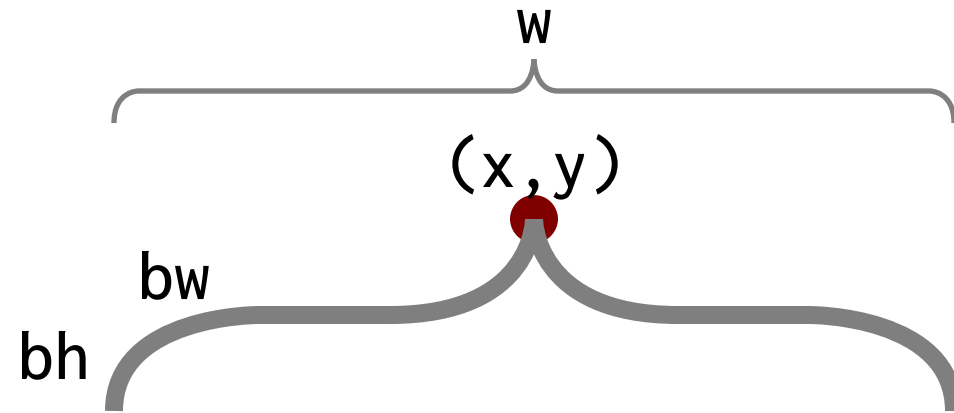(x,y)

h

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

rbrace 20 25 20 2 2

rbrace 50 25 20 4 4 1

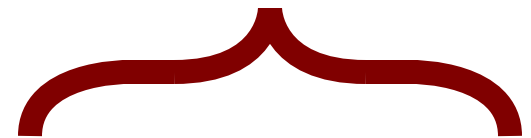rbrace 80 25 20 6 3 1 "maroon"

w

(x,y)
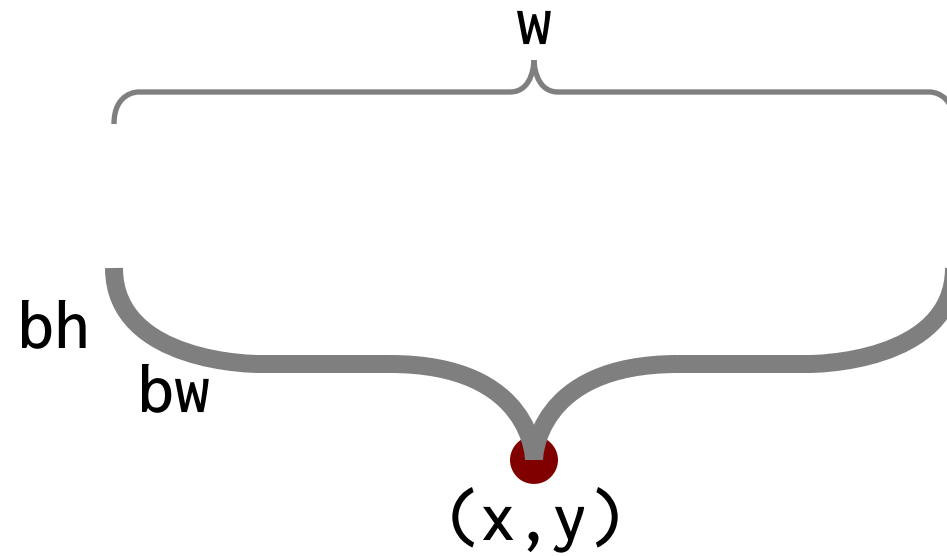
bw

bh

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

ubrace 20 25 20 2 2

ubrace 50 25 20 4 4 1

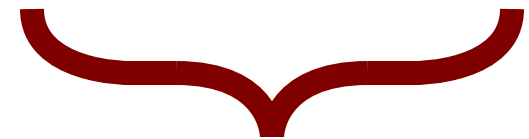ubrace 80 25 20 4 4 1 "maroon"

w

bh

bw

(x,y)

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

dbrace 20 25 20 2 2

dbrace 50 25 20 4 4 1

dbrace 80 25 20 4 4 1 "maroon"