

# decksh

## reference



# *decksh elements*

Text

hello, world

Lists

- First
- Second
- Third

Braces



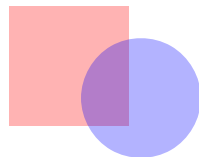
Arrows



Images



Graphics



# Text

Left-aligned text	<code>text</code>	<code>"..." x y fontsize [font] [color] [op] [link]</code>
Centered text	<code>ctext</code>	<code>"..." x y fontsize [font] [color] [op] [link]</code>
End-Aligned text	<code>etext</code>	<code>"..." x y fontsize [font] [color] [op] [link]</code>
Rotated text	<code>rtext</code>	<code>"..." x y angle fontsize [font] [color] [op] [link]</code>
Text on an arc	<code>arctext</code>	<code>"..." x y rad a1 a2 fontsize [font] [color] [op] [link]</code>
Block text	<code>textblock</code>	<code>"..." x y w fontsize [font] [color] [op] [link]</code>
Text from a file	<code>textfile</code>	<code>"file" x y fontsize [font] [color] [op] [spacing]</code>
Code listing	<code>textcode</code>	<code>"file" x y w fontsize [color]</code>

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

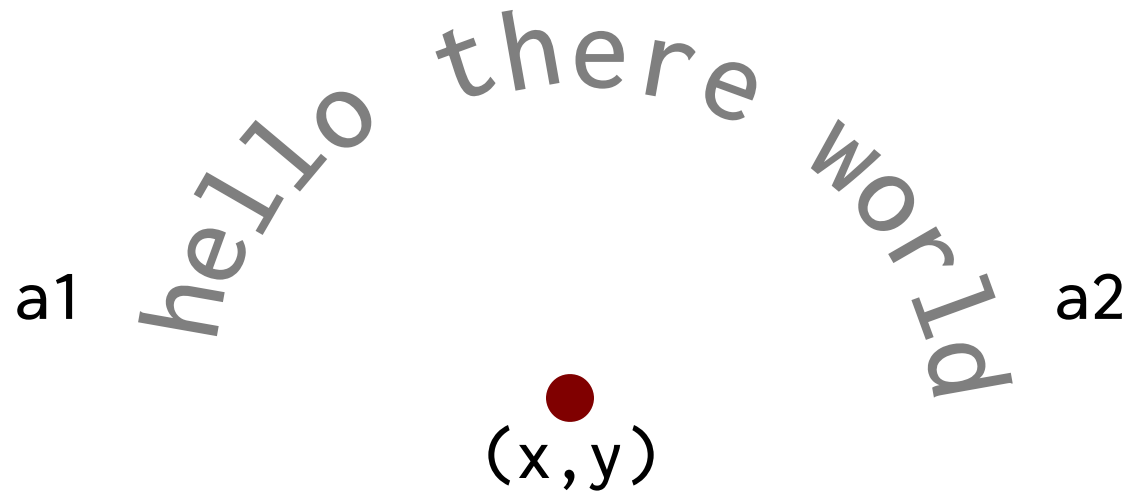
`ctext 20 20 30 3`

abc

`ctext 50 20 90 5`

abc

`ctext 80 20 270 4 "sans" "maroon"`



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

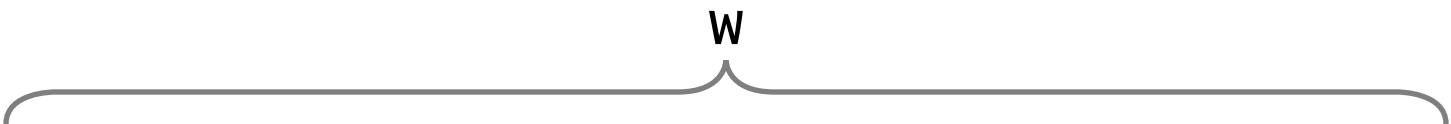
What is up

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)  “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 contains lines of text.  
Reading is fundamental.

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

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

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

```
package main
```

```
import "fmt"
```

```
func main() {
```

```
    fmt.Println("hello, world")
```

```
}
```

```
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"

# *Lists*

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

```
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
```

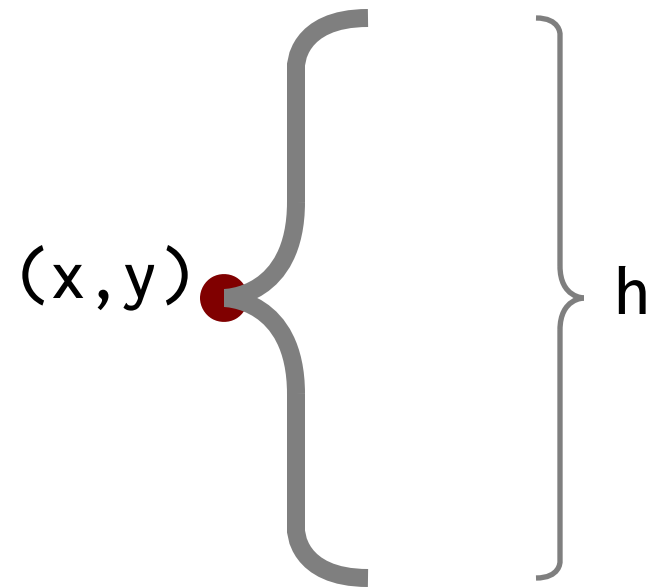
*first one*  
*second*  
*third and last*

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



# Braces

Left brace	<b>lbrace</b>	<code>x y fontsize bw bh [lw] [color] [op]</code>
Right brace	<b>rbrace</b>	<code>x y fontsize bw bh [lw] [color] [op]</code>
Up brace	<b>ubrace</b>	<code>x y fontsize bw bh [lw] [color] [op]</code>
Down brace	<b>dbrace</b>	<code>x y fontsize bw bh [lw] [color] [op]</code>



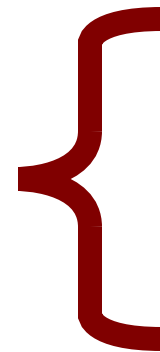
`lbrace x y h bw bh [lw] [color] [op]`



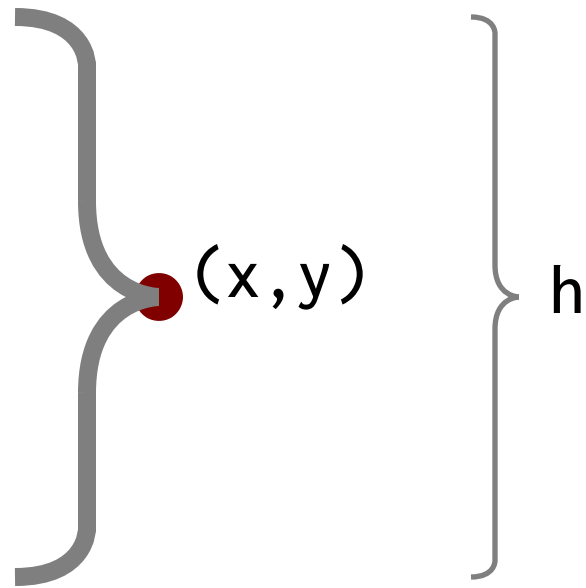
`lbrace 20 25 20 2 2`



`lbrace 50 25 20 4 4 1`



`lbrace 80 25 20 6 3 1 "maroon"`



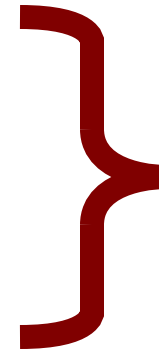
`rbrace x y h bw bh [lw] [color] [op]`



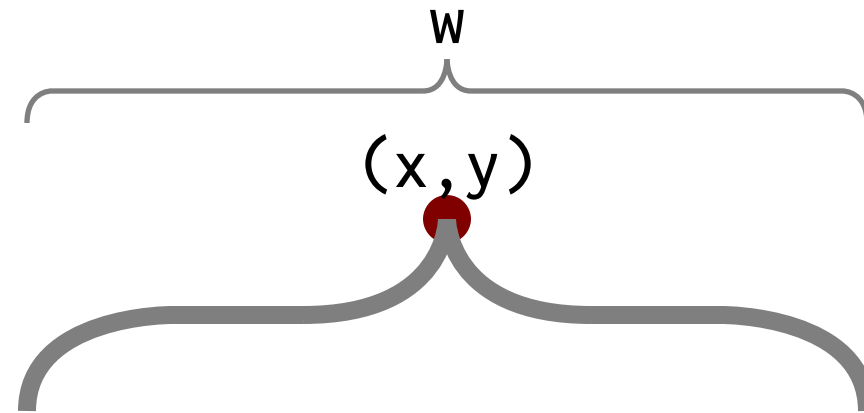
`rbrace 20 25 20 2 2`



`rbrace 50 25 20 4 4 1`



`rbrace 80 25 20 6 3 1 "maroon"`



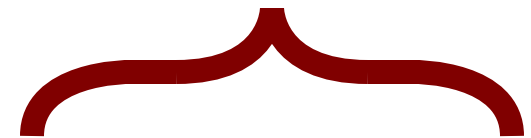
`ubrace x y w bw bh [lw] [color] [op]`



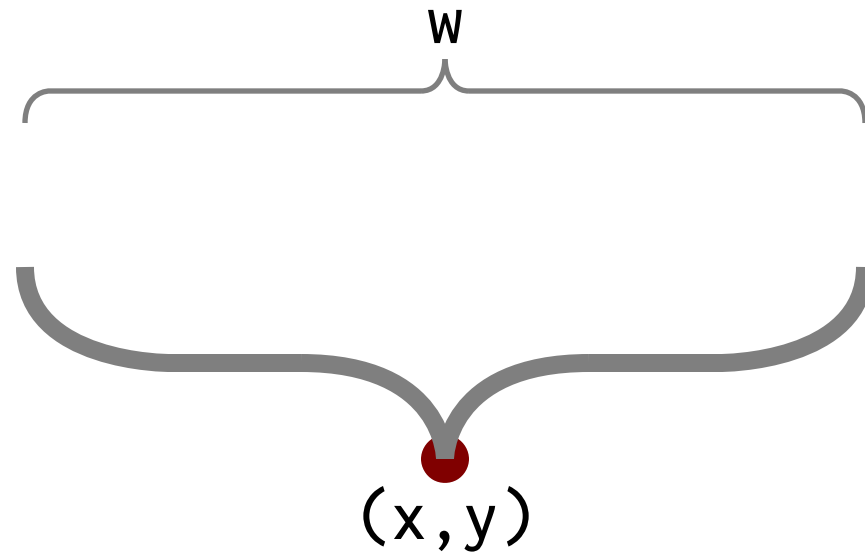
`ubrace 20 25 20 2 2`



`ubrace 50 25 20 4 4 1`



`ubrace 80 25 20 4 4 1 "maroon"`



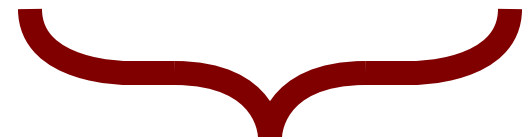
`dbrace x y w bw bh [lw] [color] [op]`



`dbrace 20 25 20 2 2`



`dbrace 50 25 20 4 4 1`



`dbrace 80 25 20 4 4 1 "maroon"`

# Arrows

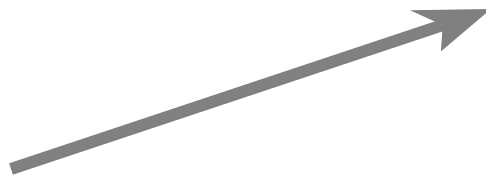
Straight	<code>arrow</code>	<code>x1 y1 x2 y2 [lw] [aw] [ah] [color] [op]</code>
Left curved	<code>lcarrow</code>	<code>bx by cx cy ex ey [lw] [aw] [ah] [color] [op]</code>
Right curved	<code>rcarrow</code>	<code>bx by cx cy ex ey [lw] [aw] [ah] [color] [op]</code>
Up curved	<code>ucarrow</code>	<code>bx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



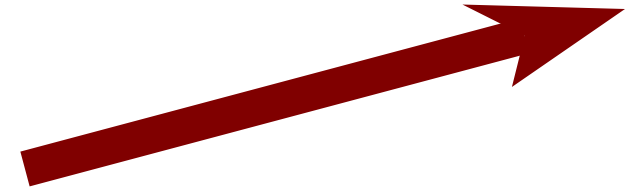
`arrow x1 y1 x2 y2 [lw] [aw] [ah] [color] [op]`



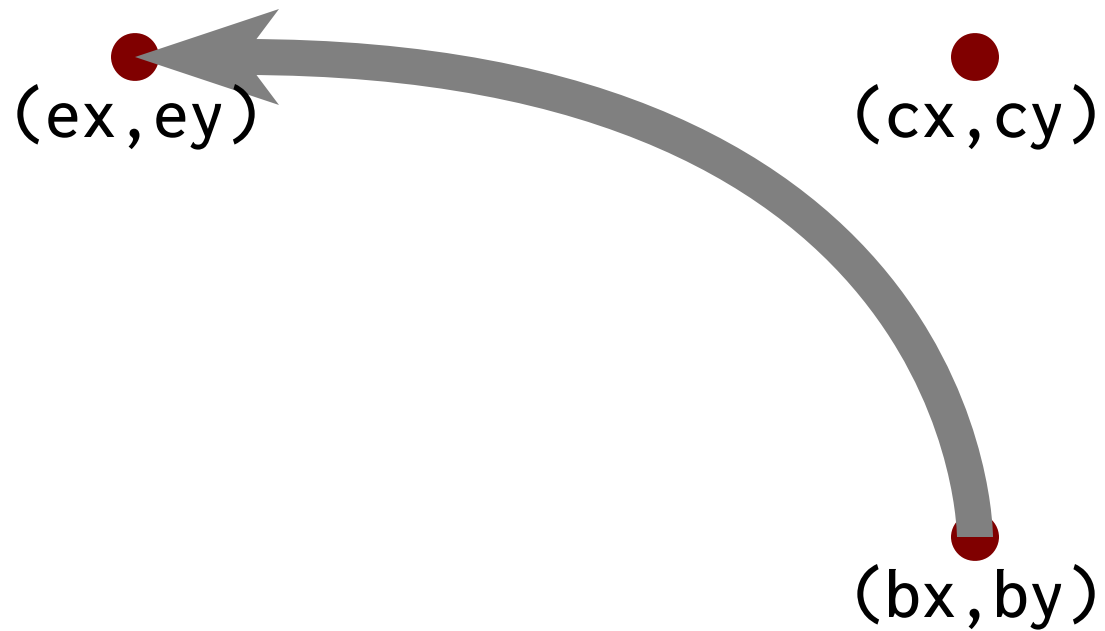
`arrow 10 20 30 20`



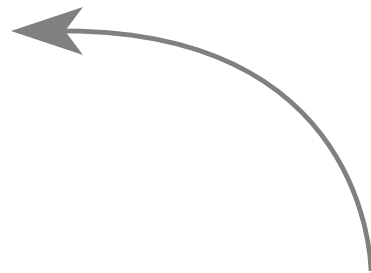
`arrow 40 20 60 30 0.5`



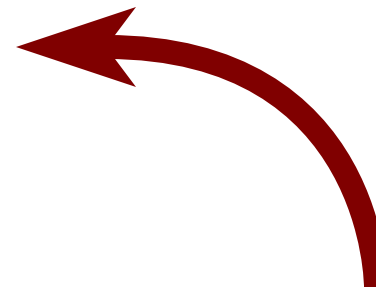
`arrow 70 20 95 30 1.5 6 6 "maroon"`



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

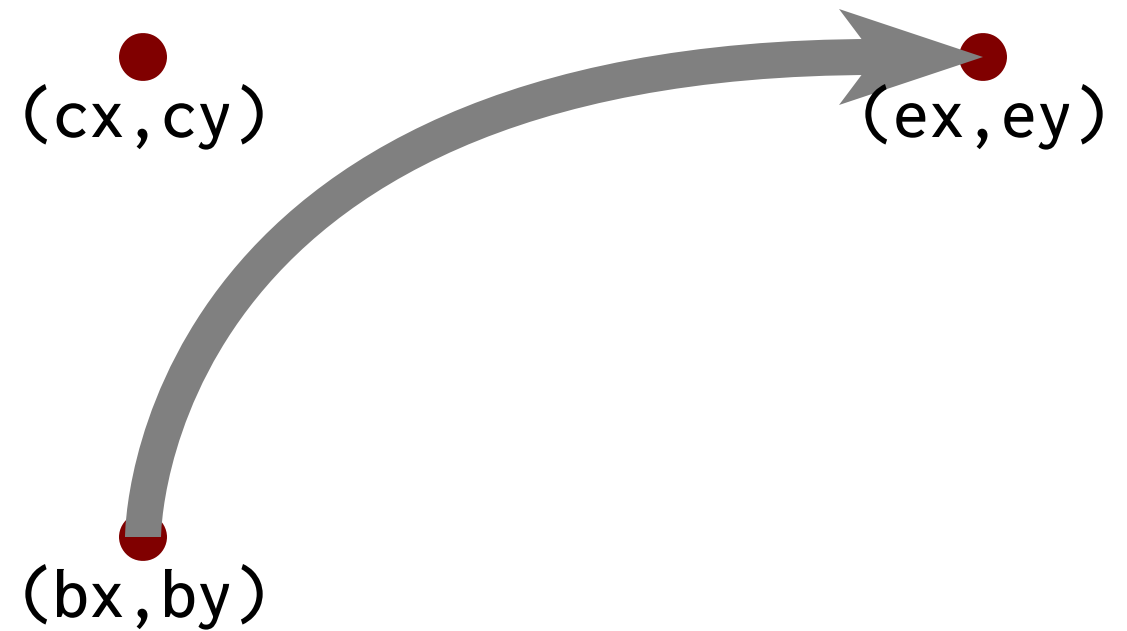


`lcarrow 30 20 30 35 15 35`

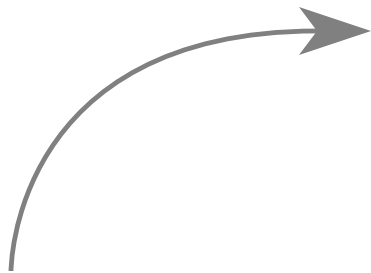


`lcarrow 70 20 70 35 55 35 1 5 5 "maroon"`





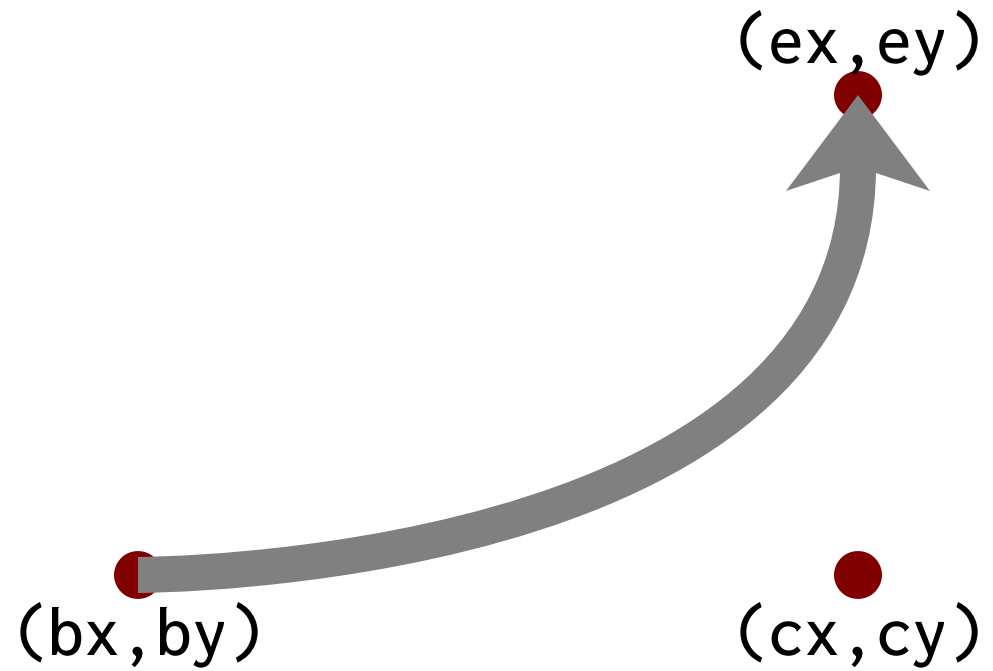
`rcarrow bx by cx cy ex ey [lw] [aw] [ah] [color] [op]`



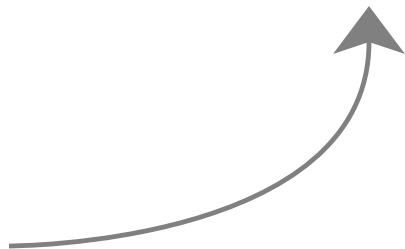
`rcarrow 15 20 15 35 30 35`



`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"`

$(bx, by)$

$(cx, cy)$

$(ex, ey)$

`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"`

# *Images*

Image	<code>image</code>	<code>"file" x y w h [scale] [link]</code>
Captioned image	<code>cimage</code>	<code>"file" "caption" x y w h [scale] [link]</code>

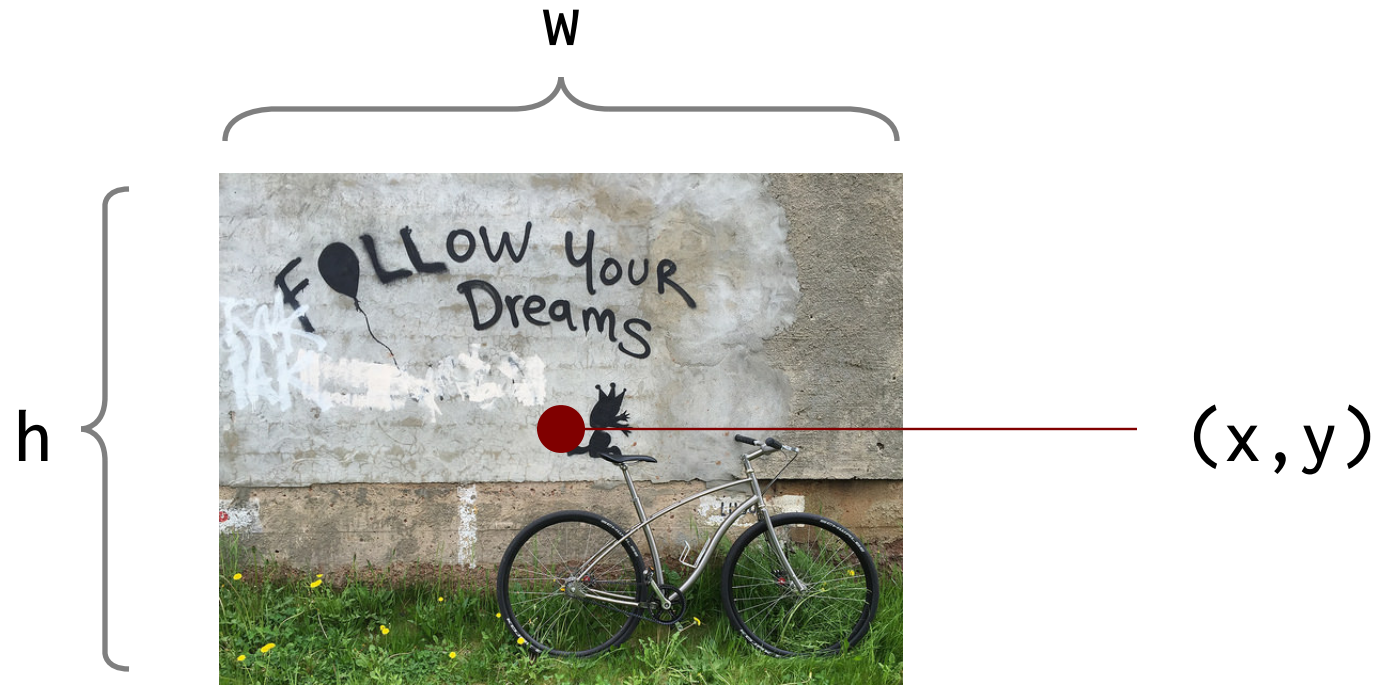


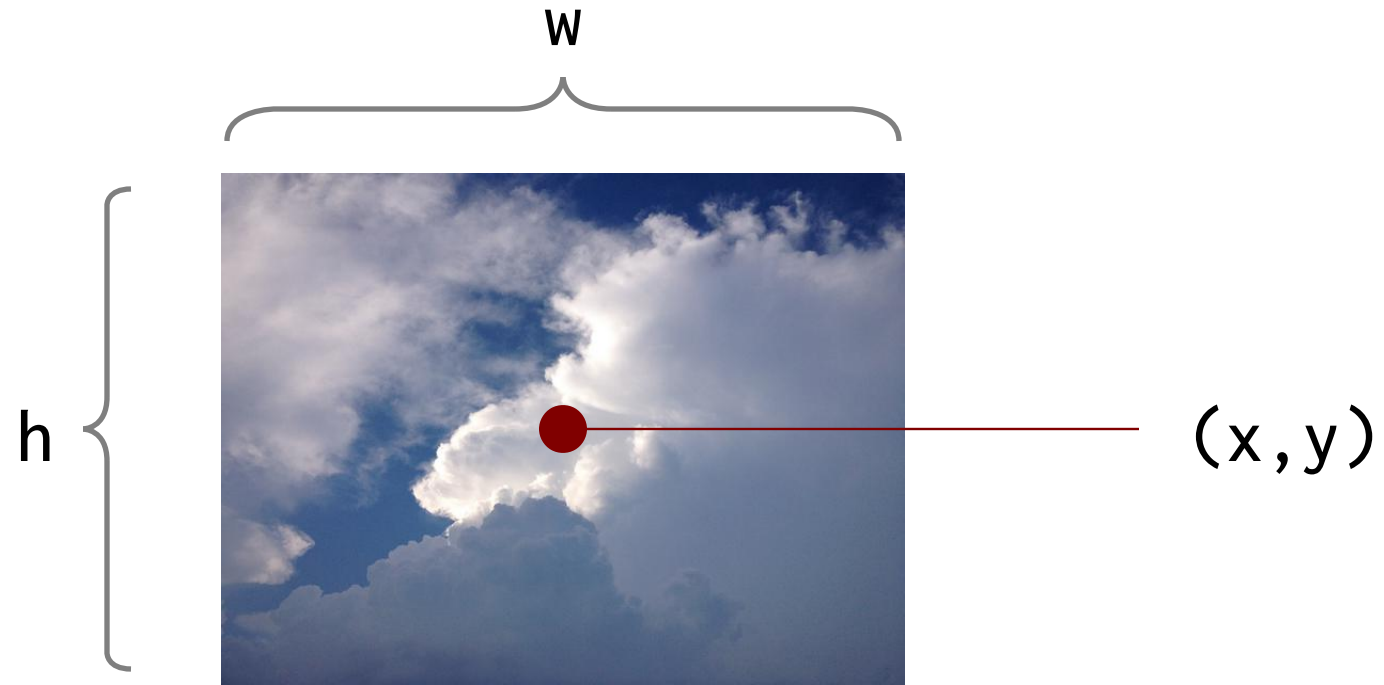
image x y w h [scale] [link]



image "follow.jpg" 22 25 640 480 10

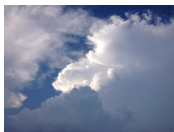


image "follow.jpg" 72 25 640 480 30



cloudy

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



sky

`cimage "cloudy.jpg" "sky" 22 25 640 480 10`



sky

`cimage "cloudy.jpg" "sky" 72 25 640 480 30 "" 1.5`

# Graphics

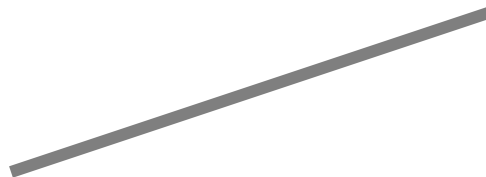
Line	<code>line</code>	<code>x1 y1 x2 y2 lw [color] [op]</code>
Horizontal line	<code>hline</code>	<code>x y w [lw] [color] [op]</code>
Vertical line	<code>vline</code>	<code>x y h [lw] [color] [op]</code>
Circle	<code>circle</code>	<code>x y w [color] [op]</code>
Area circle	<code>acircle</code>	<code>x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

`lw {`  `}`  
`(x1,y1)` `(x2,y2)`

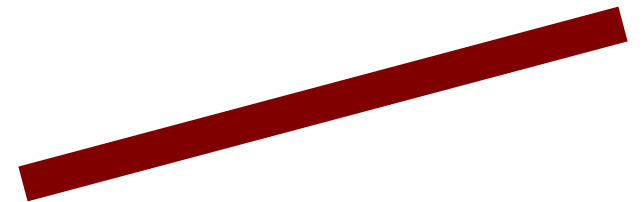
`line x1 y1 x2 y2 lw [color] [op]`



`line 10 20 30 20`

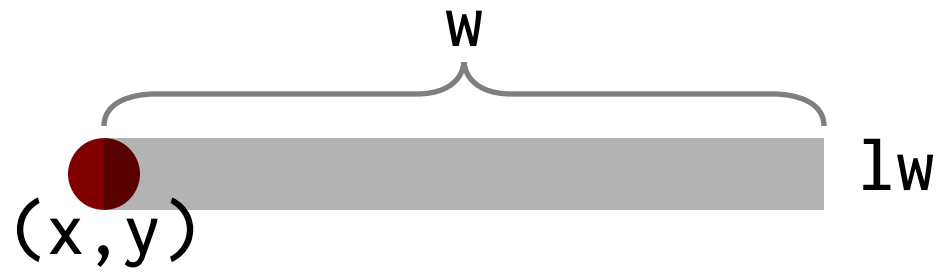


`line 40 20 60 30 0.5`



`line 70 20 95 30 1.5 "maroon"`





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



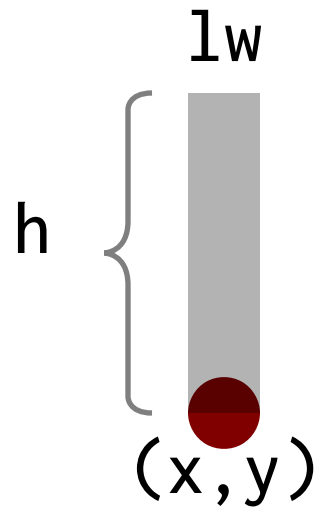
`hline 15 20 10`



`hline 40 20 20 1`



`hline 70 20 20 5 "maroon" 20`



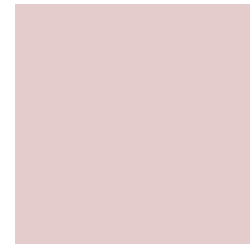
`vline x y h [lw] [color] [op]`



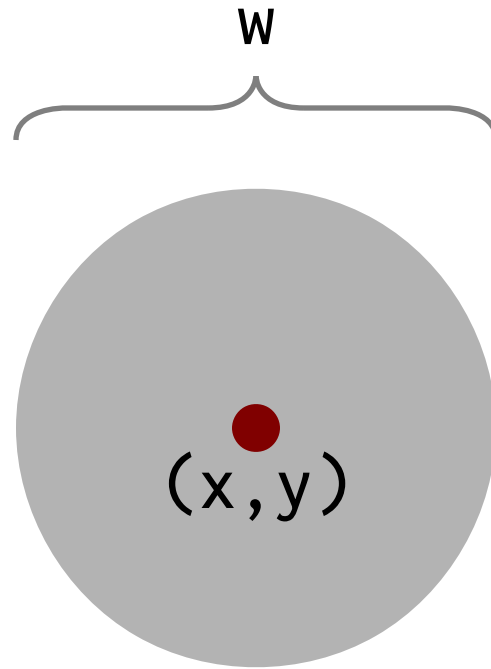
`vline 20 20 15`



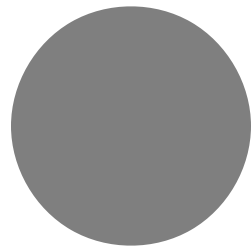
`vline 50 20 15 2`



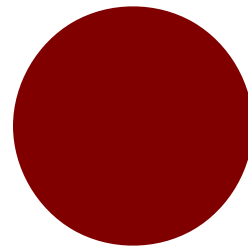
`vline 80 20 15 10 "maroon" 20`



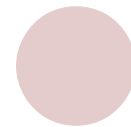
`circle x y w [color] [op]`



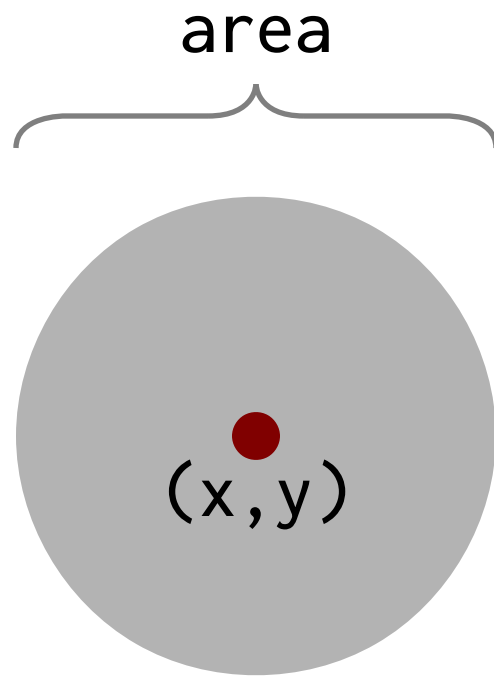
`circle 20 20 10`



`circle 50 20 10 "maroon"`



`circle 80 20 5 "maroon" 20`



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



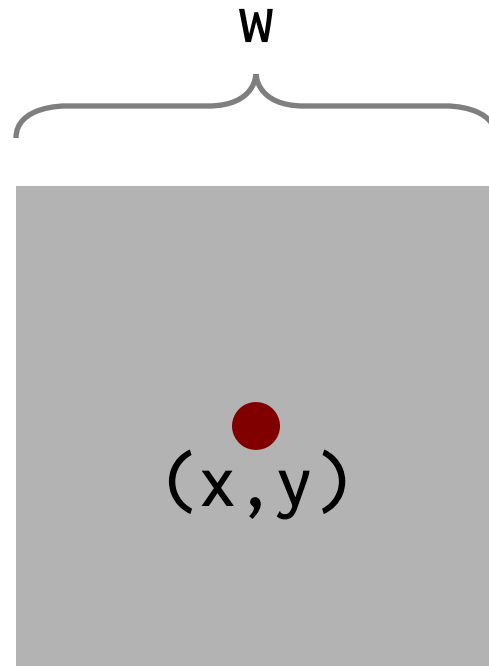
`acircle 20 20 10`



`acircle 50 20 10 "maroon"`



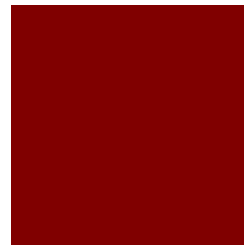
`acircle 80 20 5 "maroon" 20`



square x y w [color] [op]



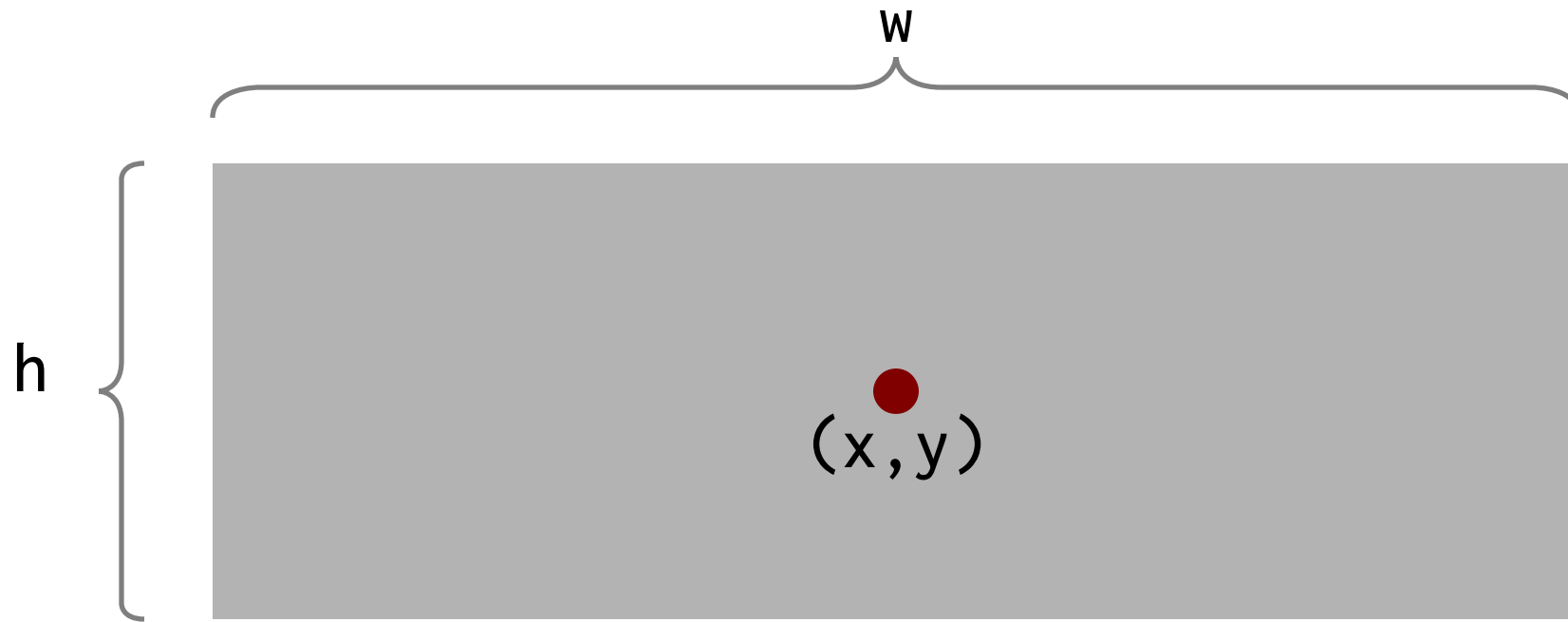
square 20 20 10



square 50 20 10 "maroon"



square 80 20 5 "maroon" 20



rect x y w h [color] [op]



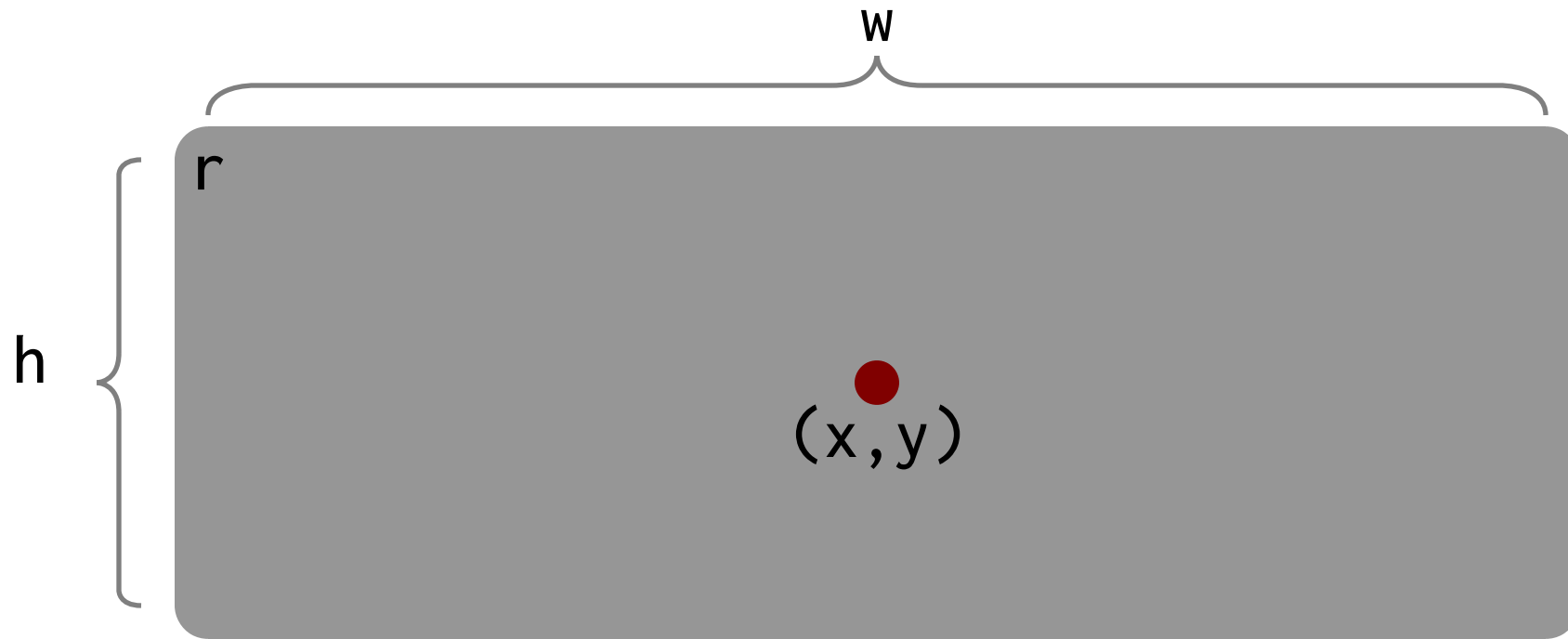
rect 20 20 10 5



rect 50 20 10 5 "maroon"



rect 80 20 5 10 "maroon" 20



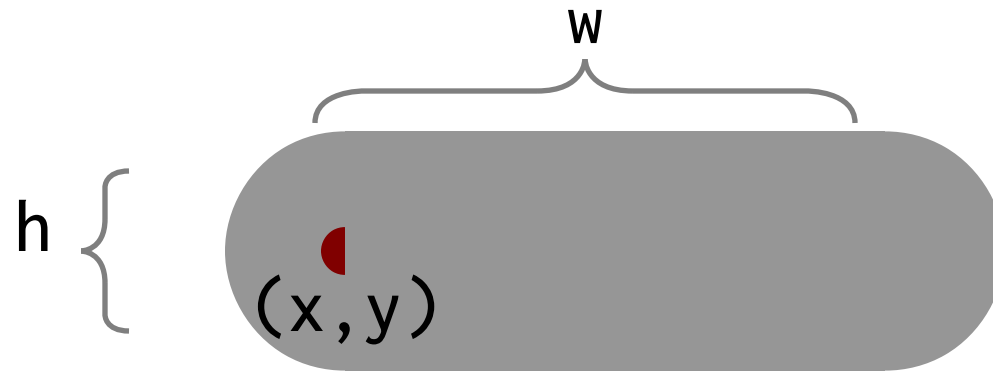
`rrect x y w h r [color] [op]`



`rrect 20 20 10 5 1`



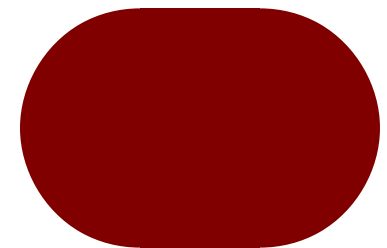
`rrect 80 20 5 10 1 "maroon"`



`pill x y w h [color]`



`pill 20 20 10 5`



`pill 80 20 5 10 "maroon"`





`ellipse x y w h [color] [op]`



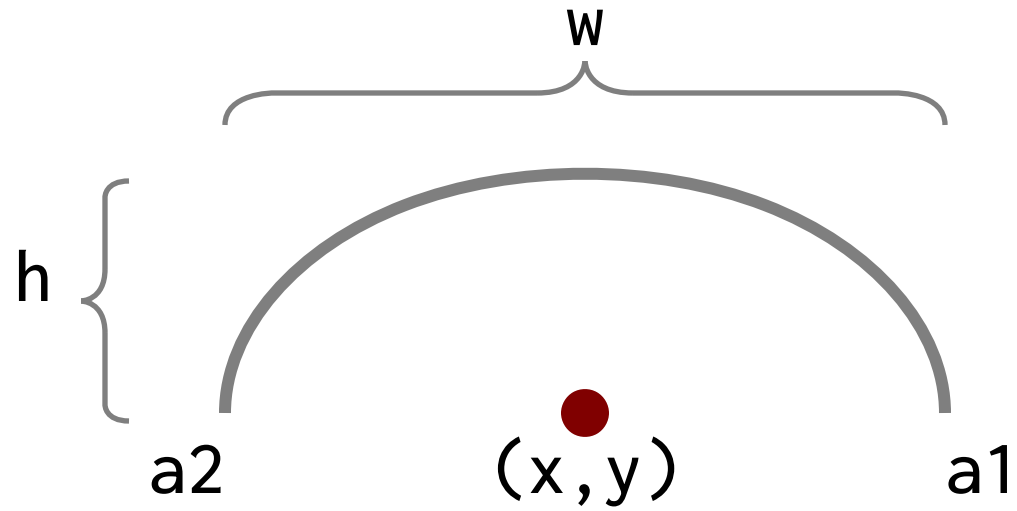
`ellipse 20 20 10 5`



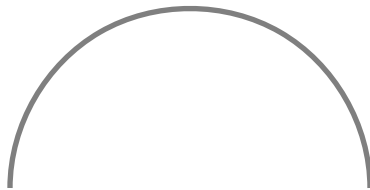
`ellipse 50 20 10 5 "maroon"`



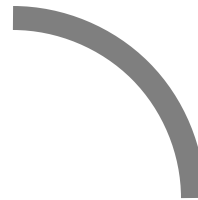
`ellipse 80 20 5 10 "maroon" 20`



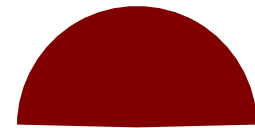
`arc x y w h a1 a2 [lw] [color] [op]`



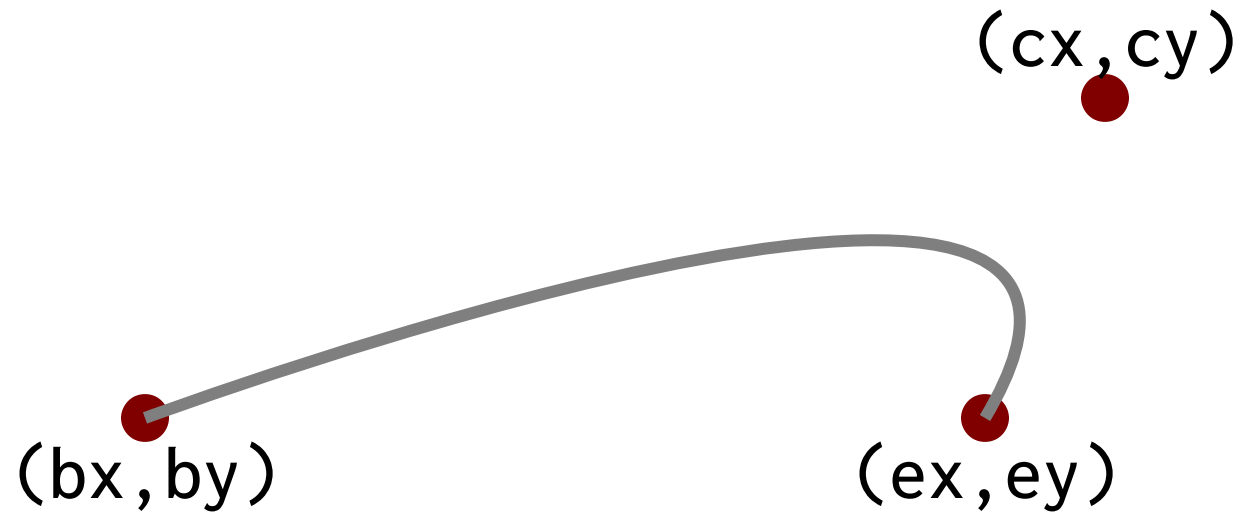
`arc 20 20 15 15 0 180`



`arc 50 20 15 15 0 90 1`



`arc 80 20 5 5 0 180 5 "maroon"`



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



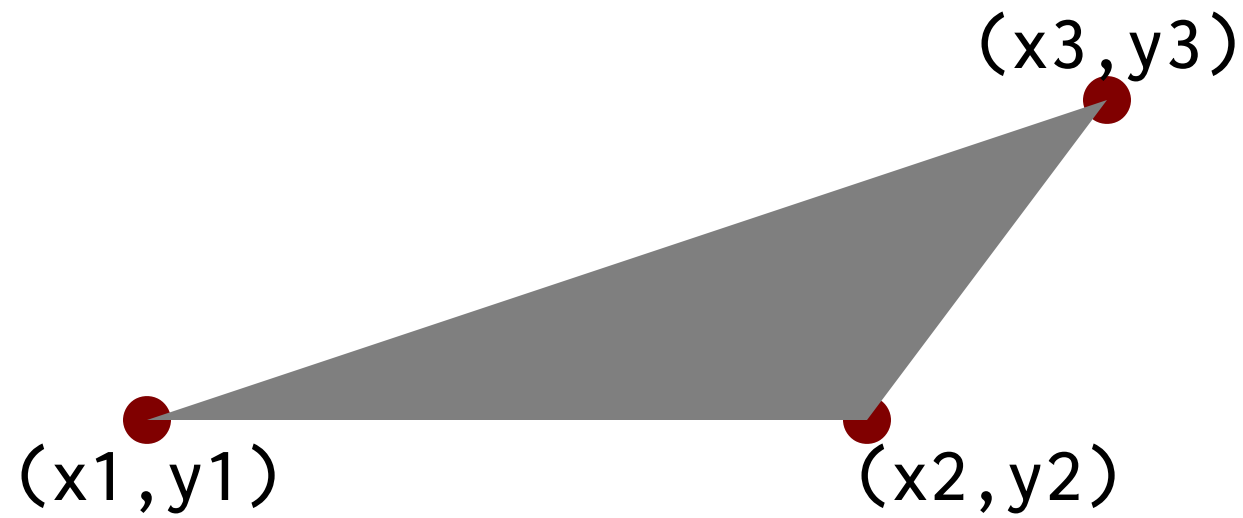
`curve 15 20 25 30 30 25`



`curve 15 20 25 30 30 25`



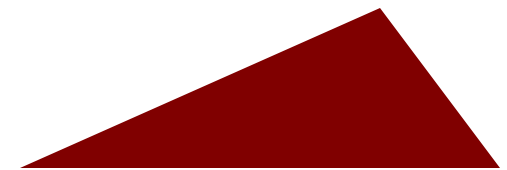
`curve 70 20 70 30 90 25 0.5 "maroon"`



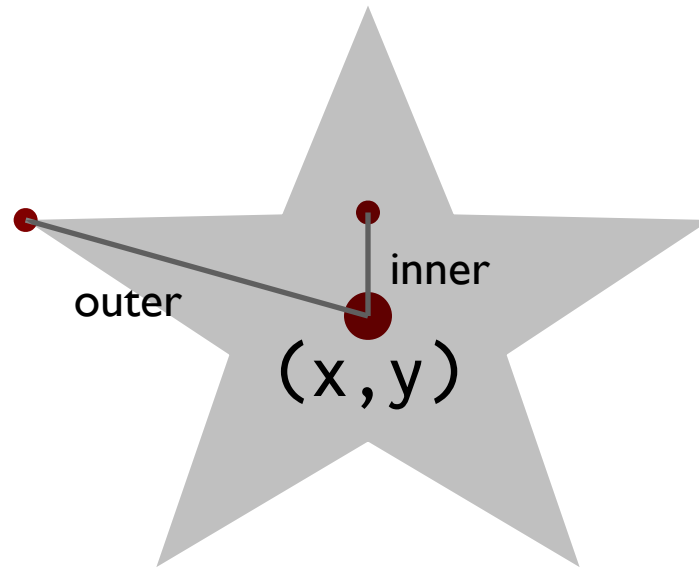
`polygon "x1 x2...xn" "y1 y2...yn" [color] [op]`



`polygon "10 25 20" "20 30 20"`



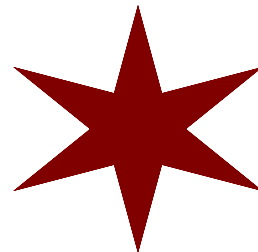
`polygon "70 85 90" "20 30 20" "maroon"`



`star x y nsides 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`