Python 3 -	Tkinter	Canvas
rython 5 -	LVILIC	Carivas

The Canvas is a rectangular area intended for drawing pictures or other complex layouts. You can place graphics, text, widgets or frames on a Canvas.

Syntax

Here is the simple syntax to create this widget -

```
w = Canvas ( master, option = value, ... )
```

Parameters

- master This represents the parent window.
- options Here is the list of most commonly used options for this widget. These options can be used as key-value pairs separated by commas.

https://www.tutorialspoint.com/python3/tk_canvas.htm

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	11	xscrollcommand
		If the canvas is scrollable, this attribute should be the .set() method of the horizontal scrollbar.
	12	yscrollincrement Works like xscrollincrement, but governs vertical movement.
	13	yscrollcommand If the canvas is scrollable, this attribute should be the .set() method of the vertical scrollbar.

The Canvas widget can support the following standard items -

arc . Creates an arc item, which can be a chord, a pieslice or a simple arc.

```
coord = 10, 50, 240, 210
arc = canvas.create_arc(coord, start = 0, extent = 150, fill = "blue")
```

image . Creates an image item, which can be an instance of either the Bitmaplmage or the PhotoImage classes.

```
filename = PhotoImage(file = "sunshine.gif")
image = canvas.create_image(50, 50, anchor = NE, image = filename)
```

line. Creates a line item.

```
line = canvas.create_line(x0, y0, x1, y1, ..., xn, yn, options)
```

oval. Creates a circle or an ellipse at the given coordinates. It takes two pairs of coordinates; the top left and bottom right corners of the bounding rectangle for the oval.

```
oval = canvas.create_oval(x0, y0, x1, y1, options)
```

polygon. Creates a polygon item that must have at least three vertices.

```
oval = canvas.create_polygon(x0, y0, x1, y1,...xn, yn, options)
```

Example

Try the following example yourself -

```
# !/usr/bin/python3
from tkinter import *
from tkinter import messagebox
```

Sr.No.	Python 3 - Tkinter Carnes - Tutorialspoint Option & Description
1	bd Border width in pixels. Default is 2.
2	bg Normal background color.
3	confine If true (the default), the canvas cannot be scrolled outside of the scrollregion.
4	cursor Cursor used in the canvas like arrow, circle, dot etc.
5	height Size of the canvas in the Y dimension.
6	highlightcolor Color shown in the focus highlight.
7	relief Relief specifies the type of the border. Some of the values are SUNKEN, RAISEL GROOVE, and RIDGE.
8	scrollregion A tuple (w, n, e, s) that defines over how large an area the canvas can be scrolled where w is the left side, n the top, e the right side, and s the bottom.
9	width Size of the canvas in the X dimension.
10	xscrollincrement If you set this option to some positive dimension, the canvas can be positioned only of multiples of that distance, and the value will be used for scrolling by scrolling units, such as when the user clicks on the arrows at the ends of a scrollbar.

ww.tutorialspoint.com/python3/tk_canvas.htm

```
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top = Tk()
C = Canvas(top, bg = "blue", height = 250, width = 300)
coord = 10, 50, 240, 210
arc = C.create_arc(coord, start = 0, extent = 150, fill = "red")
line = C.create_line(10,10,200,200,fill = 'white')
C.pack()
top.mainloop()
```

Result

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When the above code is executed, it produces the following result -

