

Bölüm 10

Canvas arc Nesnesi

Canvas üzerine çizilen elips ya da çemberden yaratılan parça. Özel olarak elips ya da çemberin tamamı da birer arc nesnesi sayılır.

Canvas üzerinde bir arc nesnesi yaratan metot şudur.

```
| id = c.create_arc(x0, y0, x1, y1, option, ...)
```

Bu kurucu, `c` Canvas nesnesi üzerine ID'si `id` olan bir arc kuruyor.

(x_0, y_0) noktası kurulan `c` canvas nesnesinin (pencere) sol üst köşesi, (x_1, y_1) noktası ise sağ alt köşesidir. Bu iki nokta, dikdörtgen biçimindeki canvas penceresini kesinlikle belirler.

Kurucu metodun çok sayıda seçimlik (optional) parametreleri vardır. Bunların listesi aşağıda verilmiştir.

activedash These options apply when the arc is in the `tk.ACTIVE` state, that is, when the mouse is over the arc. For example, the `activefill` option specifies the interior color when the arc is active. For option values, see `dash`, `fill`, `outline`, `outlinestipple`, `stipple`, and `width`, respectively.

activefill

activeoutline

activeoutlinestipple

activestipple

activewidth

dash Dash pattern for the outline. See Section 5.13, ?Dash patterns?.
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dashoffset Dash pattern offset for the outline. See Section 5.13, ?Dash patterns?.

disableddash These options apply when the arc's state is tk.DISABLED.

disabledfill**disabledoutline****disabledoutlinestipple****disabledstipple****disabledwidth**

extent Width of the slice in degrees. The slice starts at the angle given by the start option and extends counterclockwise for extent degrees.

fill By default, the interior of an arc is transparent, and fill="" will select this behavior. You can also set this option to any color and the interior of the arc will be filled with that color.

offset Stipple pattern offset for the interior of the arc. See Section 5.14, ?Matching stipple patterns?.

outline The color of the border around the outside of the slice. Default is black.

outlineoffset Stipple pattern offset for the outline. See Section 5.14, ?Matching stipple patterns?.

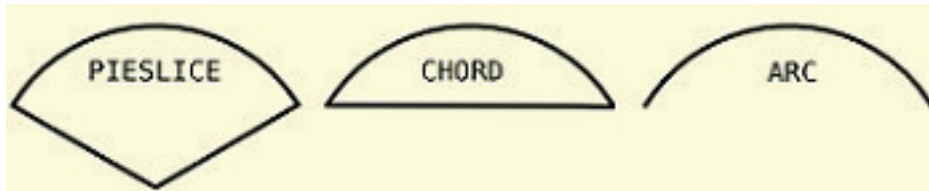
outlinestipple If the outline option is used, this option specifies a bitmap used to stipple the border. Default is black, and that default can be specified by setting outlinestipple="".

start Starting angle for the slice, in degrees, measured from +x direction. If omitted, you get the entire ellipse.

state This option is tk.NORMAL by default. It may be set to tk.HIDDEN to make the arc invisible or to tk.DISABLED to gray out the arc and make it unresponsive to events.

stipple A bitmap indicating how the interior fill of the arc will be stippled. Default is stipple="" (solid). You'll probably want something like stipple='gray25'. Has no effect unless fill has been set to some color.

style The default is to draw the whole arc; use style=tk.PIESLICE for this style. To draw only the circular arc at the edge of the slice, use style=tk.ARC. To draw the circular arc and the chord (a straight line connecting the endpoints of the arc), use style=tk.CHORD.



Şekil 10.1: Arc

tags If a single string, the arc is tagged with that string. Use a tuple of strings to tag the arc with multiple tags. See Section 8.4, ?Canvas tags?.

width Width of the border around the outside of the arc. Default is 1 pixel.

Liste 10.1.

```
import Tkinter
import tkMessageBox

4 top = Tkinter.Tk()

C = Tkinter.Canvas(top, bg="blue", height=250, width=300)

coord = 10, 50, 240, 210
9 arc = C.create_arc(coord, start=0, extent=150, fill="red")

C.pack()
top.mainloop()
```