

```

# C:\Users\Admin\Desktop\Python\Programme\morpion\aide ligne pour gagner.py
001 from tkinter import *
002
003 fenetre1 = Tk()
004 fenetre1.title('Tic Tac Toe')
005 fenetre1['bg']='white' # couleur de fond
006
007 #création lancement
008 Frame1 = Frame(fenetre1,bg="red",borderwidth=2,relief=GR00VE)
009 Frame1.pack(side=LEFT,padx=10,pady=10)
010 Label(Frame1,text="Bonjour et bienvenue",fg="white",bg="red").pack(padx=10,pady=10)
011 Button(Frame1,text="C'est
parti!",fg='navy',command=fenetre1.destroy).pack(padx=10,pady=10)
012 fenetre1.mainloop ()
013
014 #création sélection joueurs
015 fenetre2 = Tk()
016 fenetre2.title('Sélection joueurs')
017 fenetre2['bg']='white'
018 Frame2 = Frame(fenetre2, bg='purple',borderwidth=3,relief=GR00VE)
019 Frame2.pack(padx=10,pady=10)
020 Label(Frame2,text="Veuillez saisir le nom de votre joueur\n quand vous aurez terminer,
cliquez sur jouer!",fg="white",bg="purple").pack(padx=10,pady=10)
021 Label(Frame2,text="Joueur 1",fg="red",bg="white").pack(side=LEFT,padx=0,pady=1)
022 import tkinter
023 texte0=tkinter.Text(Frame2, width=10, height=0)
024 texte0.insert("end"," ")
025 texte0.pack(side=tkinter.RIGHT,padx=2,pady=0)
026 state=tkinter.DISABLED
027 Label(Frame2,text="Joueur 2",fg="blue",bg="white").pack(side=RIGHT,padx=0,pady=0)
028 texte1=tkinter.Text(Frame2, width=10, height=0)
029 texte1.insert("end"," ")
030 texte1.pack(side=tkinter.LEFT,padx=2,pady=3)
031 state=tkinter.DISABLED
032 Button(Frame2, text="Jouer",command=fenetre2.destroy).pack(padx=15,pady=15)
033 fenetre2.mainloop()
034
035 #création grille
036 class Morpion(Tk):
037     def __init__(self):
038         Tk.__init__(self)
039         self.title("Plateau ")
040
041         self.can = Canvas(self, width = 350, height = 350, bg = "white")
042         self.can.pack(padx = 10, pady = 10)
043         self.tracer_plateau()
044
045         self.bind("<Button>", self.analyser_position_clic)
046
047         self.bouton1 = Button(text="Recommencer",fg="white",bg="purple",
command=self.recommencer).pack(padx=10,pady=10)
048         self.plateau = [0] * 10
049         self.joueur = 1
050
051
052     def tracer_plateau(self):
053         self.can.create_line(123.3, 20, 123.3, 330, width = 4)
054         self.can.create_line(226.6 , 20, 226 , 330, width=4)
055         self.can.create_line(20, 123.3, 330, 123.3, width=4)
056         self.can.create_line(20 ,226.3 ,330 ,226.3, width=4)
057         self.can.create_line(20,20,330,20,width=4)
058         self.can.create_line(20,20,20,330,width=4)
059         self.can.create_line(20,330,330,330,width=4)
060         self.can.create_line(330,20,330,330,width=4)
061
062     def changement_de_joueurs(self):
063         if self.joueur == 1:
064             self.joueur = 2
065         else:
066             self.joueur = 1
067
068     def tracer_croix(self, x, y):
069         self.can.create_line(x-45.5, y-45.5, x+45.5, y+45.5, width = 5, fill = "red")
070         self.can.create_line(x-45.5, y+45.5, x+45.5, y-45.5, width = 5, fill = "red")
071
072     def tracer_rond(self, x, y):

```

```

073 |         self.can.create_oval(x-51.5, y-51.5, x +51.5, y+51.5, fill = "blue")
074 |         self.can.create_oval(x-46.5,y-46.5,x+46.5,y+46.5, fill = "ivory")
075 |
076 |     def analyser_position_clic(self, event):
077 |         #Detection de la position de la souris dans le Canvas en fonction des cases
078 |         # 1 | 2 | 3
079 |         # - + - + -
080 |         # 4 | 5 | 6
081 |         # - + - + -
082 |         # 7 | 8 | 9
083 |
084 |         if self.plateau[0] == 0:
085 |             if event.x > 20 and event.x < 123:
086 |                 if event.y > 20 and event.y < 123:
087 |                     i = 1
088 |                     self.x = 71.5
089 |                     self.y = 71.5
090 |                 if event.y > 123 and event.y < 226:
091 |                     i = 4
092 |                     self.x = 71.5
093 |                     self.y = 174.5
094 |                 if event.y > 226 and event.y < 330:
095 |                     i = 7
096 |                     self.x = 71.5
097 |                     self.y = 277.5
098 |             elif event.x > 123 and event.x < 226:
099 |                 if event.y > 20 and event.y < 123:
100 |                     i = 2
101 |                     self.x = 174.5
102 |                     self.y = 71.5
103 |                 if event.y > 123 and event.y < 226:
104 |                     i = 5
105 |                     self.x = 174.5
106 |                     self.y = 174.5
107 |                 if event.y > 200 and event.y < 300:
108 |                     i = 8
109 |                     self.x = 174.5
110 |                     self.y = 277.5
111 |             elif event.x > 226 and event.x < 330:
112 |                 if event.y > 20 and event.y < 123:
113 |                     i = 3
114 |                     self.x = 277.5
115 |                     self.y = 71.5
116 |                 if event.y > 123 and event.y < 226:
117 |                     i = 6
118 |                     self.x = 277.5
119 |                     self.y = 174.5
120 |                 if event.y > 226 and event.y < 330:
121 |                     i = 9
122 |                     self.x = 277.5
123 |                     self.y = 277.5
124 |
125 |         if self.plateau[i] is 0:
126 |             if self.joueur is 1:
127 |                 self.plateau[i] = 1
128 |                 self.tracer_croix(self.x, self.y)
129 |             else:
130 |                 self.plateau[i] = 2
131 |                 self.tracer_rond(self.x, self.y)
132 |
133 |         self.changement_de_joueurs()
134 |         self.test_gagnant()
135 |
136 |
137 |     def recommencer(self):
138 |         self.can.delete(ALL)
139 |         self.tracer_plateau()
140 |         self.plateau = [0] * 10
141 |         self.joueur = 1
142 |
143 |     def test_gagnant(self):
144 |         if self.plateau[1] == self.plateau[2] == self.plateau[3] and self.plateau[1] != 0:
145 |             self.can.create_line(20,70,330,70,width=20)
146 |             self.plateau[0] = self.plateau[1]
147 |
148 |         elif self.plateau[4] == self.plateau[5] == self.plateau[6] and self.plateau[4] !=

```

```

0:
149|         self.can.create_line(20,173,330,173,width=20)
150|         self.plateau[0] = self.plateau[1]
151|     elif self.plateau[7] == self.plateau[8] == self.plateau[9] and self.plateau[7] !=
0:
152|         self.can.create_line(20,276,330,276,width=20)
153|         self.plateau[0] = self.plateau[1]
154|     elif self.plateau[1] == self.plateau[5] == self.plateau[9] and self.plateau[1] !=
0:
155|         self.can.create_line(30,30,320,320,width=20)
156|         self.plateau[0] = self.plateau[1]
157|     elif self.plateau[3] == self.plateau[5] == self.plateau[7] and self.plateau[3] !=
0:
158|         self.can.create_line(30,320,320,30,width=20)
159|         self.plateau[0] = self.plateau[1]
160|     elif self.plateau[1] == self.plateau[4] == self.plateau[7] and self.plateau[1] !=
0:
161|         self.can.create_line(70,330,70,20,width=20)
162|         self.plateau[0] = self.plateau[1]
163|     elif self.plateau[2] == self.plateau[5] == self.plateau[8] and self.plateau[2] !=
0:
164|         self.can.create_line(176,330,176,20,width=20)
165|         self.plateau[0] = self.plateau[1]
166|     elif self.plateau[3] == self.plateau[6] == self.plateau[9] and self.plateau[3] !=
0:
167|         self.can.create_line(276,330,276,20,width=20)
168|         self.plateau[0] = self.plateau[1]
169|
170|
171| if __name__ == "__main__":
172|     fenetre = Morpion()
173|     Frame3 = Frame(fenetre,bg="white",borderwidth=2,relief=GR00VE)
174|     Frame3.pack(side=LEFT,padx=5,pady=5)
175|     Label(Frame3,text="Joueur 1",fg="red",bg="white").pack(side=LEFT,padx=5,pady=5)
176|     Frame4 = Frame(fenetre,bg="white",borderwidth=2,relief=GR00VE)
177|     Frame4.pack(side=RIGHT,padx=5,pady=5)
178|     Label(Frame4,text="Joueur 2",fg="blue",bg="white").pack(side=RIGHT,padx=5,pady=5)
179|
180|
181| fenetre.mainloop()

```