3限基本機能実装完了

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main

c0a21084be committed 2 hours ago 1 parent d6f38f1 commit 1514ff182f0fb679341fcadd4b43692ac7e67bbb

Showing **1 changed file** with **53 additions** and **13 deletions**.

Split Unified

66 ex03/maze.py

```
@@ -1,8 +1,37 @@
- import imp
  import tkinter as tk
  import tkinter.messagebox as ttk
- import maze_maker as mm
+ import random

+ def make_maze(yoko, tate):
+     XP = [ 0, 1, 0, -1]
+     YP = [-1, 0, 1,  0]
+
+     maze_lst = []
+     for y in range(tate):
+         maze_lst.append([0]*yoko)
+     for x in range(yoko):
+         maze_lst[0][x] = 1
+         maze_lst[tate-1][x] = 1
+     for y in range(1, tate-1):
+         maze_lst[y][0] = 1
+         maze_lst[y][yoko-1] = 1
+     for y in range(2, tate-2, 2):
+         for x in range(2, yoko-2, 2):
+             maze_lst[y][x] = 1
+     for y in range(2, tate-2, 2):
+         for x in range(2, yoko-2, 2):
+             if x > 2: rnd = random.randint(0, 2)
+             else:     rnd = random.randint(0, 3)
+             maze_lst[y+YP[rnd]][x+XP[rnd]] = 1
+
+     return maze_lst
+
+ def show_maze(canvas, maze_lst):
+     color = ["white", "gray"]
+     for y in range(len(maze_lst)):
+         for x in range(len(maze_lst[y])):
+             canvas.create_rectangle(x*100, y*100,
  x*100+100, y*100+100,
+
  fill=color[maze_lst[y][x]])

  def key_down(event):
      global key
      key = " "
```

```
15
16  def main_proc():
17  -     global cx,cy,key
18        delta = { " ":[0,0],
19  -             "Up":[0,-20],
20  -              "Down":[0,+20],
21  -              "Left":[-20,0],
22  -              "Right":[+20,0],
23
24        }
25  -     cx,cy = cx + delta[key][0], cy + delta[key][1]
26        canvas.coords("tori",cx,cy)
27        root.after(100,main_proc)
28
36                            )
37        canvas.pack()
38
39  -     maze_bg = mm.make_maze(15,9)
40  -     print(maze_bg)
41  -     mm.show_maze(canvas, maze_bg)
42        tori = tk.PhotoImage(file="fig/5.png")
43  -     cx = 300
44  -     cy = 400
45        canvas.create_image(cx, cy, image=tori,
    tag="tori")
46
47        key=" "
```

```
44
45  def main_proc():
46  +     global cx, cy, key, mx, my
47        delta = { " ":[0,0],
48  +             "Up":[0,-1],
49  +              "Down":[0,+1],
50  +              "Left":[-1,0],
51  +              "Right":[+1,0],
52
53        }
54  +
55  +     try:
56  +         if maze_bg[my+delta[key][1]][mx+delta[key]
    [0]]==0:
57  +             my,mx = my+delta[key][1],mx+delta[key][0]
58  +     except:
59  +         pass
60  +     #mx,my = mx + delta[key][0], my + delta[key][1]
61  +     cx = mx*100+50
62  +     cy = my*100+50
63  +
64        canvas.coords("tori",cx,cy)
65        root.after(100,main_proc)
66
74                            )
75        canvas.pack()
76
77  +     maze_bg = make_maze(15,9)
78  +     # print(maze_bg)
79  +     show_maze(canvas, maze_bg)
80        tori = tk.PhotoImage(file="fig/5.png")
81  +     mx = 1
82  +     my = 1
83  +     cx = mx*100+50
84  +     cy = my*100+50
85        canvas.create_image(cx, cy, image=tori,
    tag="tori")
86
87        key=" "
```

0 comments on commit `1514ff1`