

# Python 语言基础与应用

## K06 组合图形

源代码截图：

```
1 import turtle
2 import random
3
4
5 t = turtle.Turtle()
6 colors = ['pink', 'light steel blue', 'peru', 'yellow', 'green yellow', 'navy', 'medium
purple', 'cyan', 'tomato', 'coral', 'moccasin', 'lime green', 'spring green']
7
8
9 ▾ def polygon(n, size, color):
10     t.pencolor(color)
11     t.fillcolor(color)
12     t.pensize(3)
13     t.begin_fill()
14 ▾     for i in range(n):
15         t.forward(size)
16         t.right(360//n)
17     t.end_fill()
18     t.tracer()
19
20 ▾ for i in range(30):
21     t.penup()
22     x = random.randint(-250, 250)
23     y = random.randint(-250, 250)
24     t.goto(x, y)
25     t.pendown()
26     n = random.randint(3, 10)
27     size = random.randint(20, 50)
28     color = random.choice(colors)
29     polygon(n, size, color)
30
31 t.hideturtle()
32 turtle.done()
```

运行结果截图：

