Python For Good

少儿编程课程开发中常用的库与工具

董轶

爱派森-教研经理

课程设计目标

提升课堂趣味

激发学生对编程的热情和兴趣

课程设计主旨

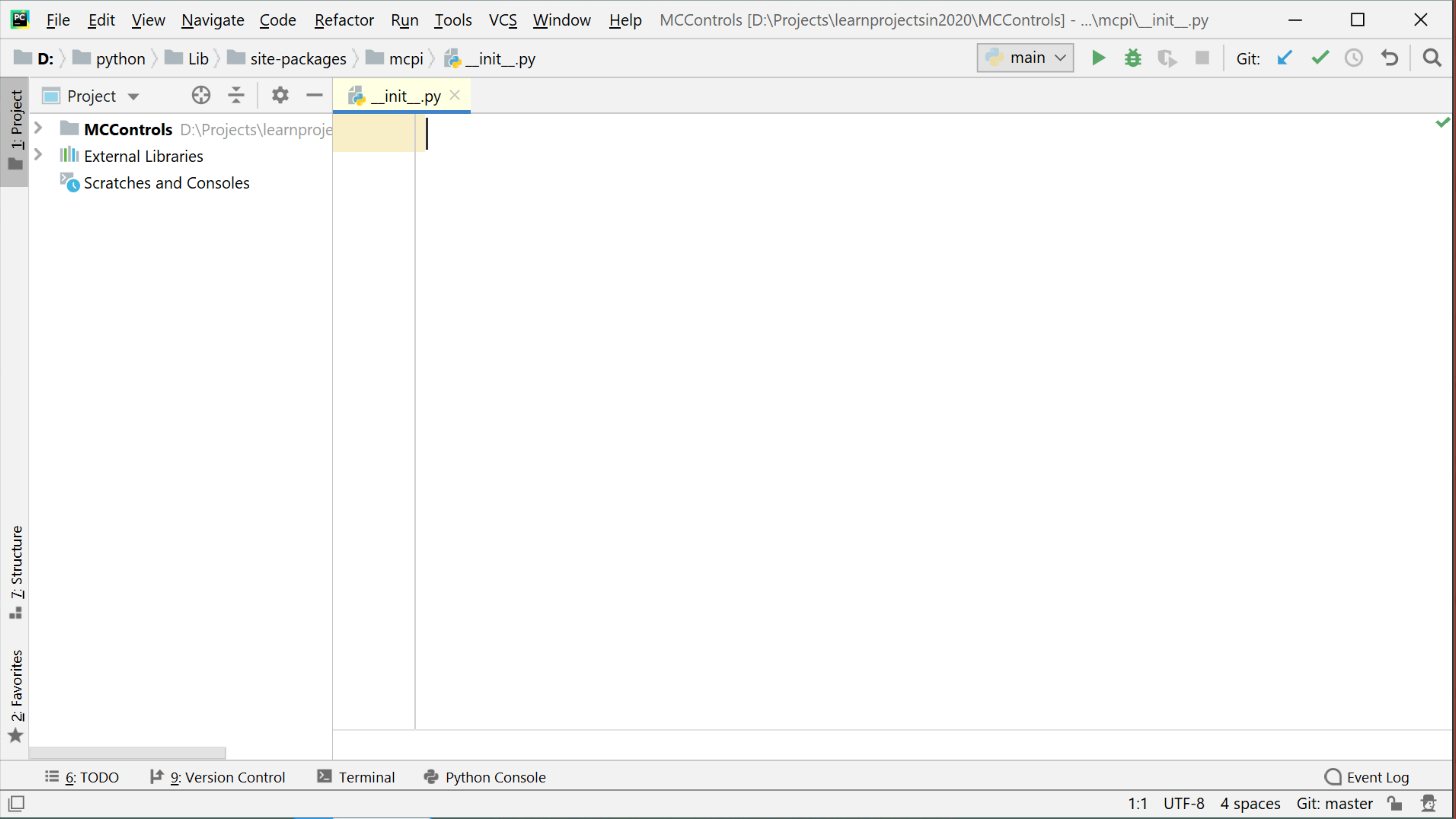
简单

简陋

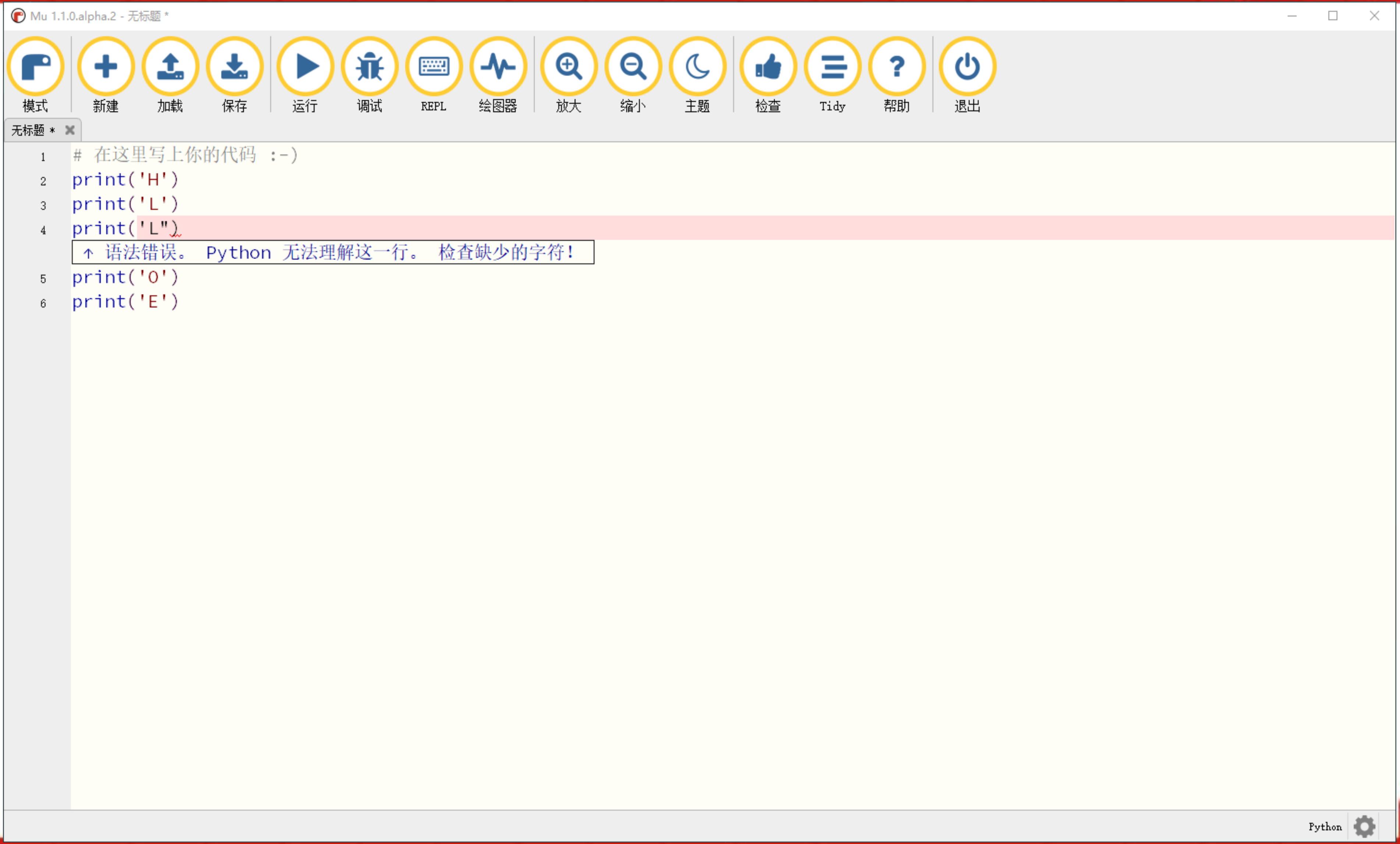
目录

- 简单的编辑器
- 简单的工具库

简单的编辑器


File
Edit
View
Navigate
Code
Refactor
Run
Tools
VCS
Window
Help
MCControls [D:\Projects\learnprojectsin2020\MCControls] - ...\mcpi__init__.py
D:
python
Lib
site-packages
mcpi
__init__.py
main
Git:
Project
__init__.py
MCControls D:\Projects\learnproje
External Libraries
Scratches and Consoles
1: Project
7: Structure
2: Favorites
6: TODO
9: Version Control
Terminal
Python Console
Event Log
1:1
UTF-8
4 spaces
Git: master

Mu


Mu 1.1.0.alpha.2 - 无标题 *
模式
新建
加载
保存
运行
调试
REPL
绘图器
放大
缩小
主题
检查
Tidy
帮助
退出
无标题 *
Python

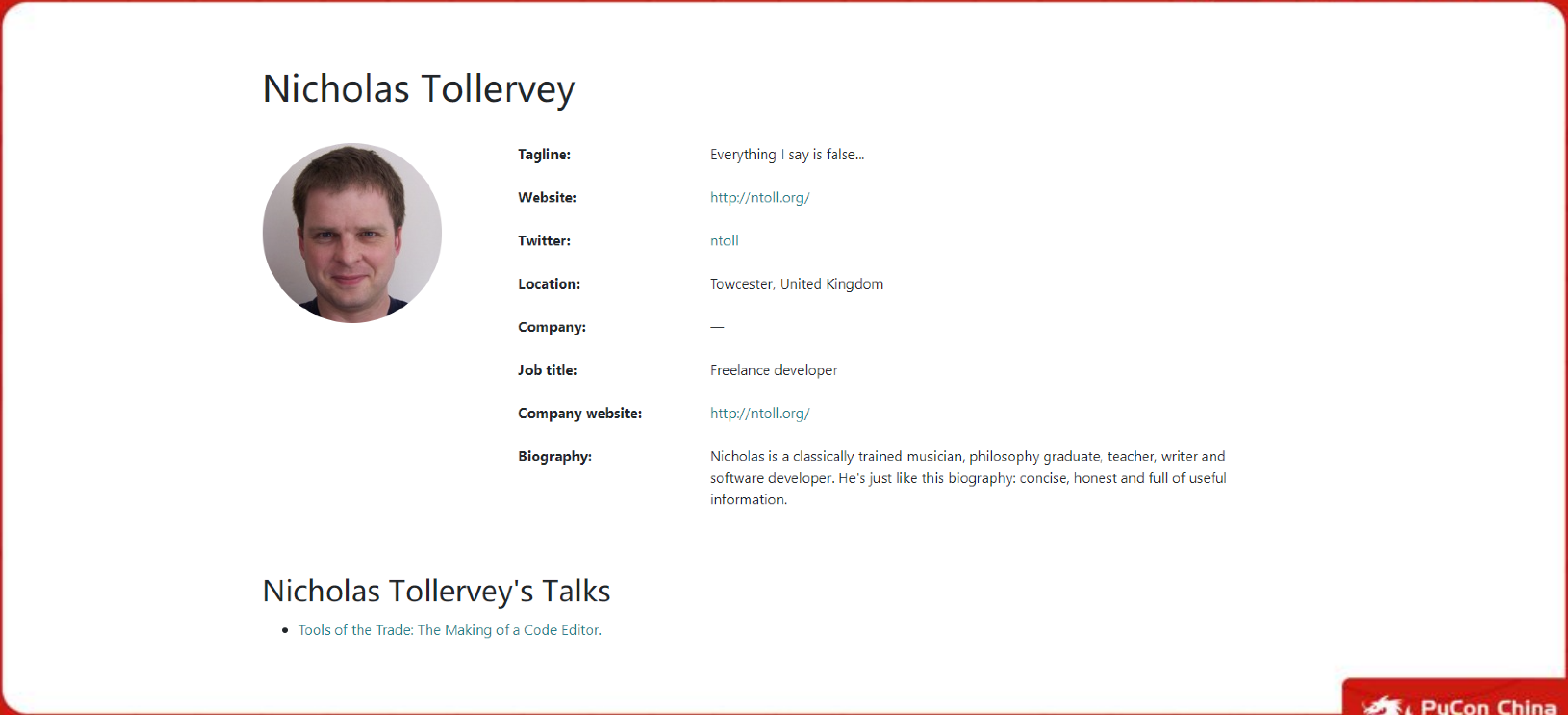
```
# 在这里写上你的代码 :-)
print('H')
print('L')
print('L")
↑ 语法错误。 Python 无法理解这一行。 检查缺少的字符!
print('O')
print('E')
```

Mu

Mu

- 界面简洁，没有多级菜单
- 自带 Python 环境
- 简单的包安装方式
- 多种可选编程模式
- 基本的自动补全功能
- 直观的语法检查

编辑器作者



Nicholas Tollervey

Tagline:	Everything I say is false...
Website:	http://ntoll.org/
Twitter:	ntoll
Location:	Towcester, United Kingdom
Company:	—
Job title:	Freelance developer
Company website:	http://ntoll.org/
Biography:	Nicholas is a classically trained musician, philosophy graduate, teacher, writer and software developer. He's just like this biography: concise, honest and full of useful information.

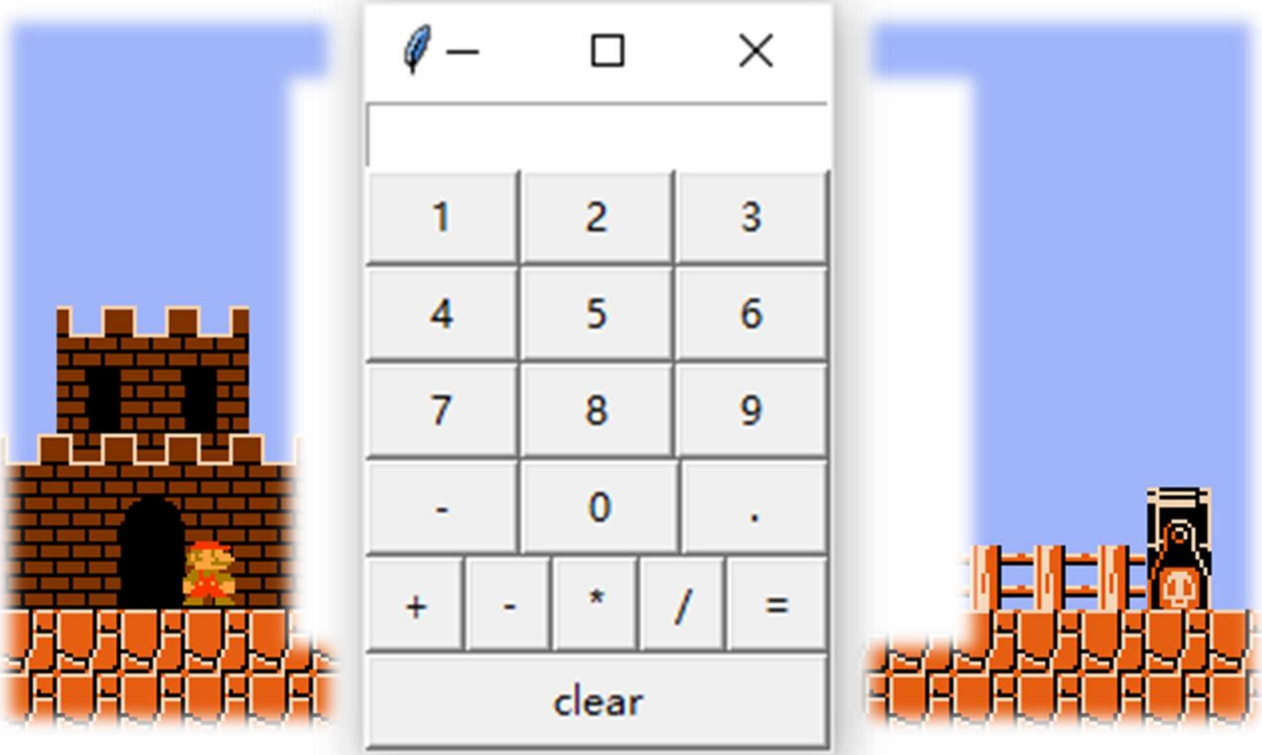
Nicholas Tollervey's Talks

- Tools of the Trade: The Making of a Code Editor.

简单的工具库

工具库

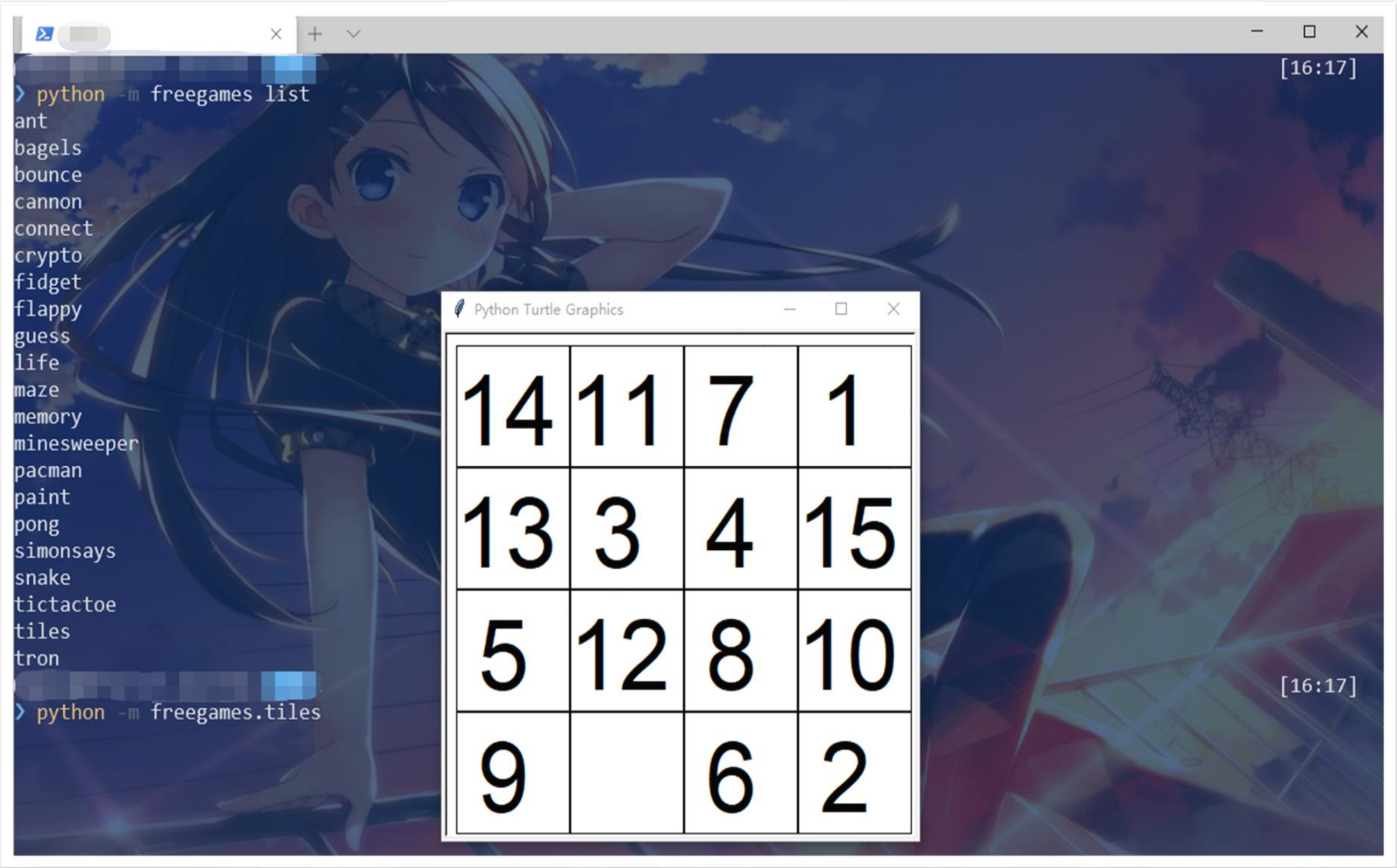
- turtle
- tkinter
- pygame


1
2
3
4
5
6
7
8
9
-
0
.
+
-
*
/
=
clear

turtle

turtledemo

freegames



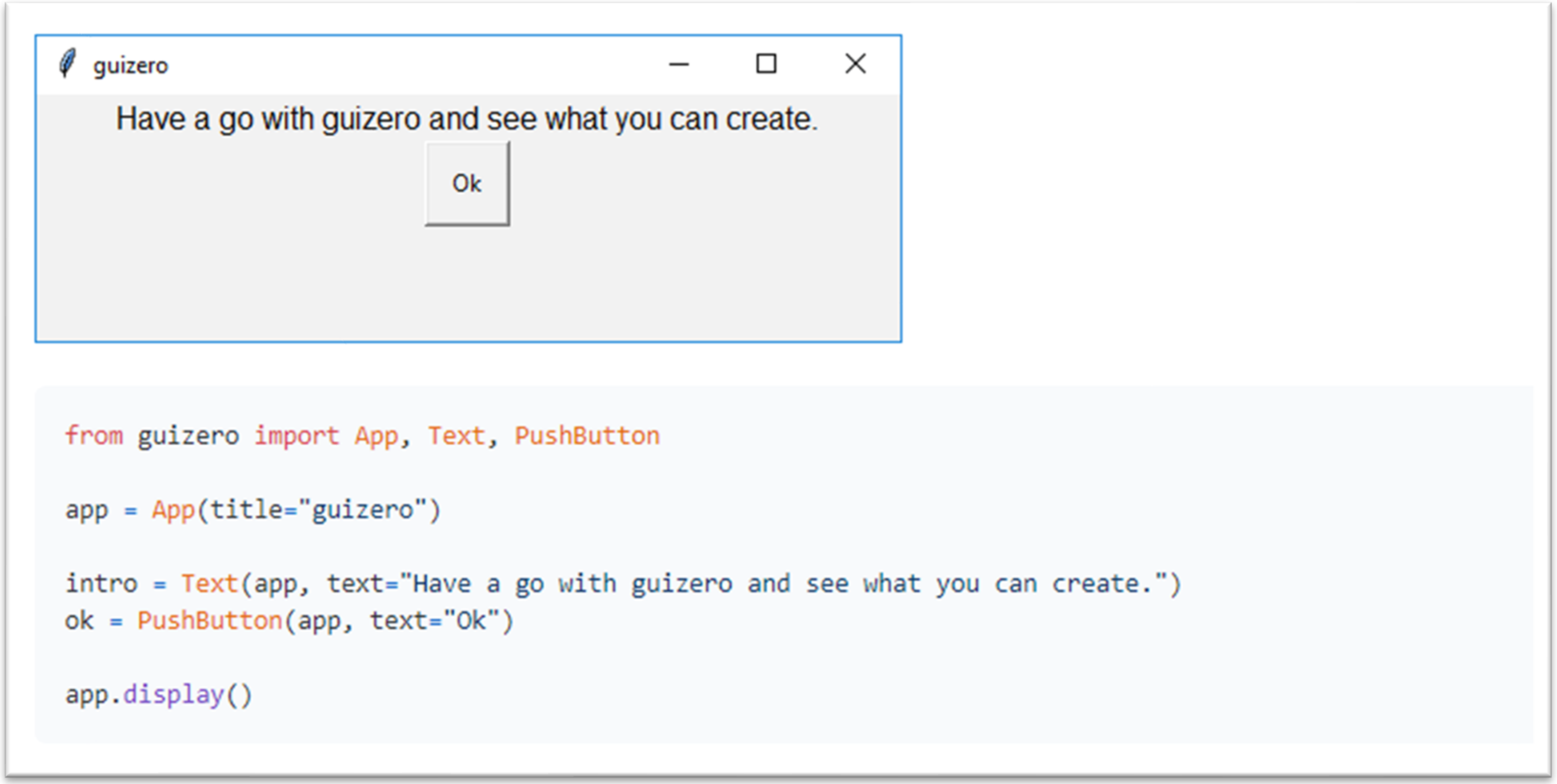
```
[redacted]                                                    [16:17]
❯ python -m freegames list
ant
bagels
bounce
cannon
connect
crypto
fidget
flappy
guess
life
maze
memory
minesweeper
pacman
paint
pong
simonsays
snake
tictactoe
tiles
tron
[redacted]                                                    [16:17]
❯ python -m freegames.tiles
```

14	11	7	1
13	3	4	15
5	12	8	10
9		6	2

tkinter

easygui

guizero

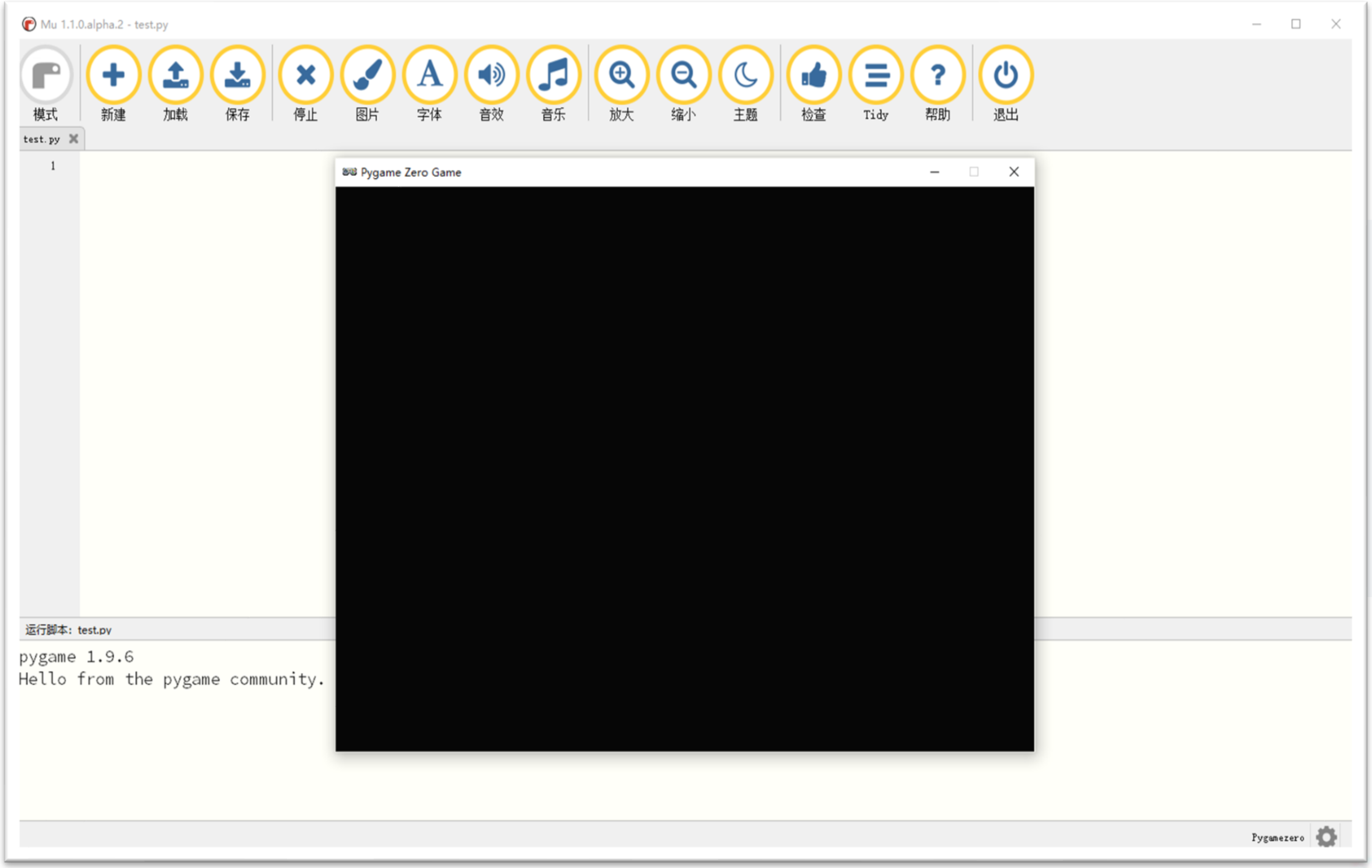


Have a go with guizero and see what you can create.

```
from guizero import App, Text, PushButton

app = App(title="guizero")

intro = Text(app, text="Have a go with guizero and see what you can create.")
ok = PushButton(app, text="Ok")

app.display()
```

pygame

pgzero


Mu 1.1.0.alpha.2 - test.py
模式
新建
加载
保存
停止
图片
字体
音效
音乐
放大
缩小
主题
检查
Tidy
帮助
退出
test.py
1
Pygame Zero Game
运行脚本: test.py
Pygamezero

```
pygame 1.9.6
Hello from the pygame community.
```

创意

- turtle 解谜游戏
- tkinter 主题插件
- pygame 联机服务器
- ...

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