



0. Welcome



《Python programming》 / Lecturer: Zhiyi Luo (罗志一)

School of Computer Science and Technology
计算机科学与技术学院



About me

- 罗志一，博士，毕业于上海交通大学计算机系
- 研究方向
 - 自然语言处理，信息检索，问答系统等
- 个人主页
 - zhiyiluo.site



About me

[Home](#)
[Research](#)
[Projects](#)
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[Activities](#)

罗志一 (Zhiyi Luo) 学术主页



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About Me

I received the B.S. degree from the **Sichuan University** in 2013, and the Ph.D. degree from the **Shanghai Jiao Tong University** in 2020. I have one-year industry work experience at the **Search & Recommendation Team of Alibaba Group**. After that, I joined the School of Information Science at the **Zhejiang Sci-Tech University** in 2021.

Research Interests

- Machine Learning
- Natural Language Processing
- Knowledge Representation Learning
- Information Retrieval

News

- **NEW** 2022.3 2022 AI 2000 Most Influential Scholar Award Honorable Mention in Knowledge Engineering.
- **NEW** 2021.12 Received the Zhejiang Provincial NSFC general research grant.



Course logistics

- Learn programming in python
- Course page
 - <http://zhiyiluo.site/teaching.html>



Course logistics

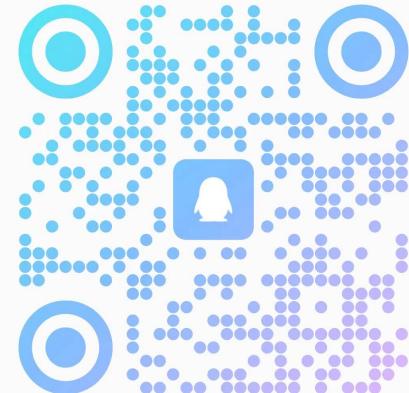
- Learn programming in python
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QQ Group: 416748524



Python程序设计*-029...

群号: 416748524



扫一扫二维码，加入群聊



QQ



References

- Liang y. d., Introduction to Programming Using Python, Pearson, 2012
- Sebastian Raschka, Python Machine Learning, Wiley Publication, 2015.
- Eric Matthes, Python Crash Course: A Hands-On, Project-Based Introduction to programming, No Starch Press, 2015.
- Marklutz, Learning Python 4th Edition, O'Reilly, 2011.



Requirements

- **Attendance + Quiz + Assignments 50%**
 - Quiz (随堂测验)
 - Assignments (平时作业)
- **Final Exam 50%**
 - Closed-book (闭卷考试)



Overview

- Basis of computer science
- What is the program
- Development tools 开发工具: Pycharm
- Environments Setup 环境配置: Anaconda



Overview

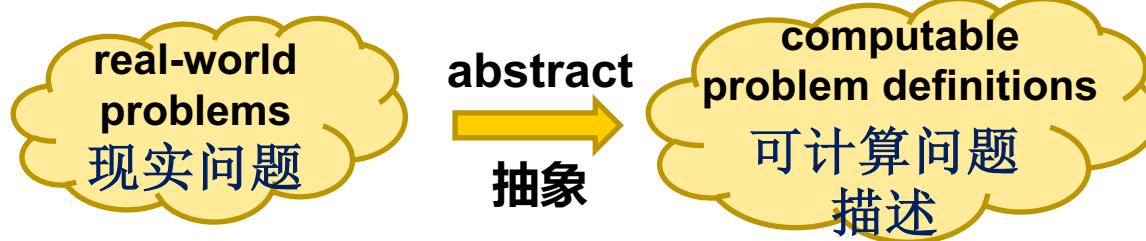
- **Basis of computer science**
- What is the program
- Development tools 开发工具: Pycharm
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What is the program? 什么是程序?

- We abstract the real-world problems into computable processes and write the programs to solve them.

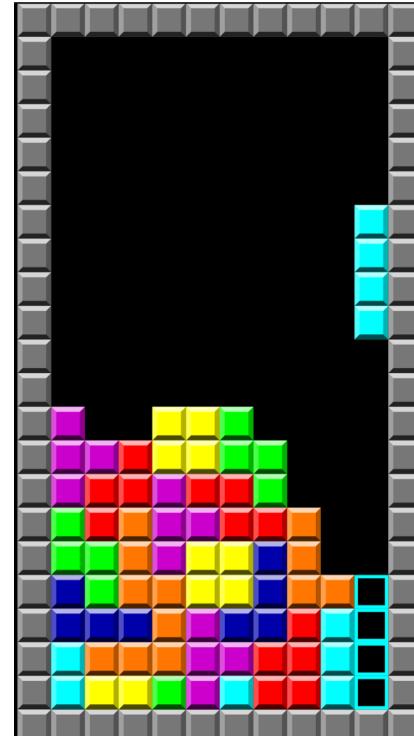
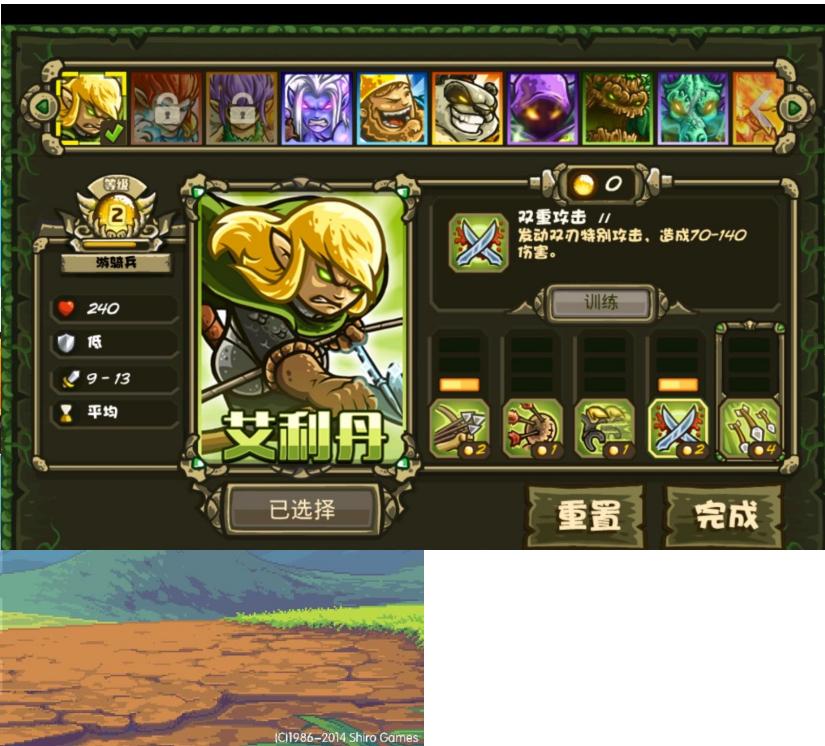
我们将现实世界中的问题抽象为可计算的过程；程序是正是这种计算过程的代码实现。





What can programs do? 程序可以做什么?

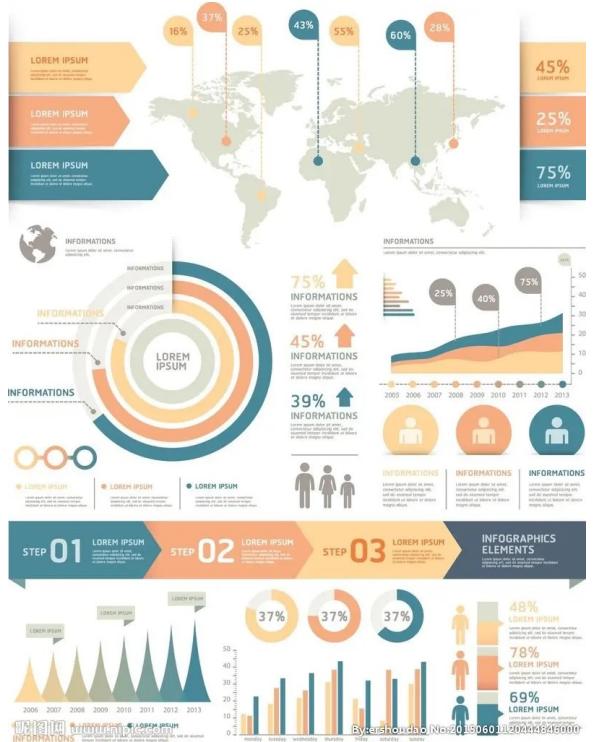
○ Games (游戏)





What can programs do? 程序可以做什么?

● Data visualization (数据可视化)





What can programs do? 程序可以做什么?

○ Web & mobile apps (各种网站apps)

Bilibili homepage screenshot showing various video thumbnails and a live stream overlay.

Weibo (Sina) homepage screenshot showing various news feeds, trending topics, and a video thumbnail.





What can programs do? 程序可以做什么?

○ Robots (机器人)



Hello! How can I help you? 😊

What is Quickchat?



Quickchat is a human-like AI chat bot that provides accurate and instant answers to customer questions.



Can I add it to my website?

Yes! It can be implemented on any website and it doesn't require technical expertise or time-consuming setup. You can also connect your software directly to our API.



Awesome! How can I start??

Simply click the "Get Started" button and follow the next steps.



Do you have any other questions?



What is love?

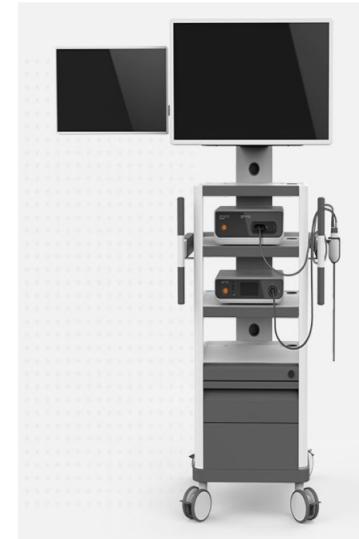
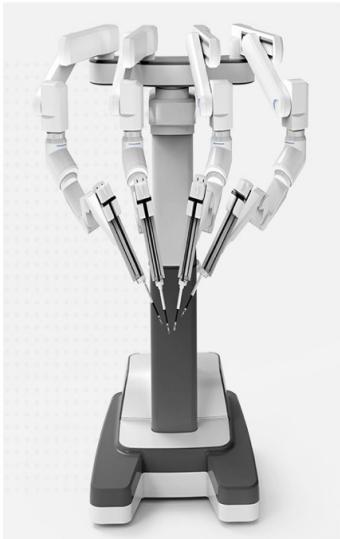
I'm sorry... I'm here to talk about Quickchat, not about love.





What can programs do? 程序可以做什么?

○ Robots (机器人)



图迈®Toumai®腔镜手术机器人

鸿鹄®骨科手术机器人

蜻蜓眼®DFVision®三维电子腹腔镜

经皮穿刺手术机器人



What can programs do? 程序可以做什么?

- Self-driving cars (自动驾驶)





What can programs do? 程序可以做什么?

- Games (游戏)
- Data visualization (数据可视化)
- Web & mobile apps (各种网站apps)
- Robots (机器人)
- Self-driving cars (自动驾驶)
- More ...