



Python Class

Ray Chinese School



Introduction

- ▶ About me
- ▶ 28 years working experience
- ▶ 3 years teaching



Python Classes in Ray Chinese School

- ▶ Python Programming for beginners
- ▶ Python Advanced Programming
- ▶ Students age range
- ▶ Remote class
- ▶ Equipements



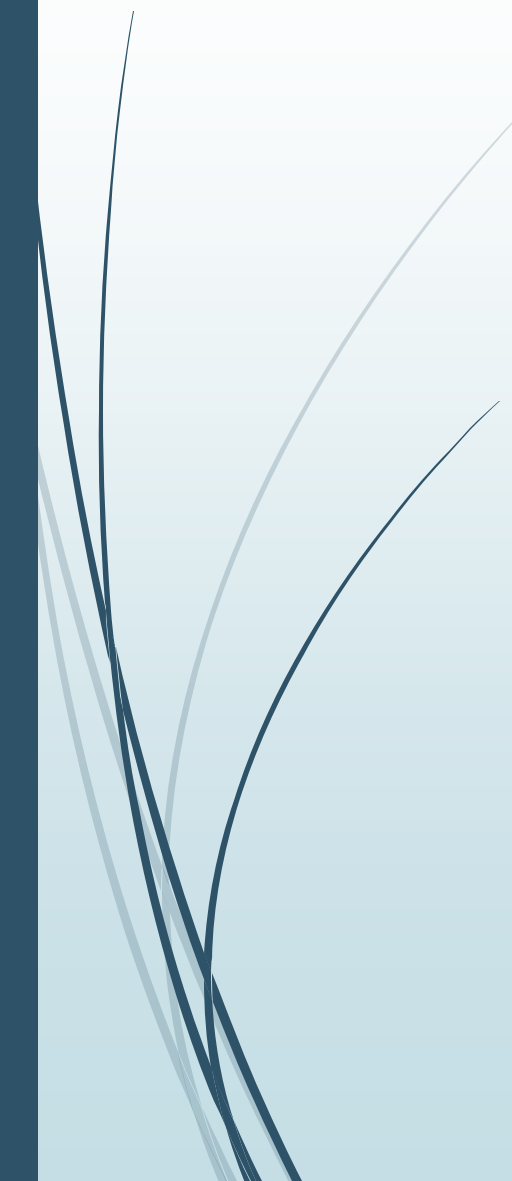
Why Python



- ▶ The most popular programming since last year
- ▶ Simple syntax and easy to learn
- ▶ Plenty of packages
- ▶ Games package
- ▶ Widely used
 - ▶ Data processing
 - ▶ Machine learning



Goals for beginner class

- ▶ How to coding
 - ▶ Have some fun
 - ▶ Kids build interests in programming
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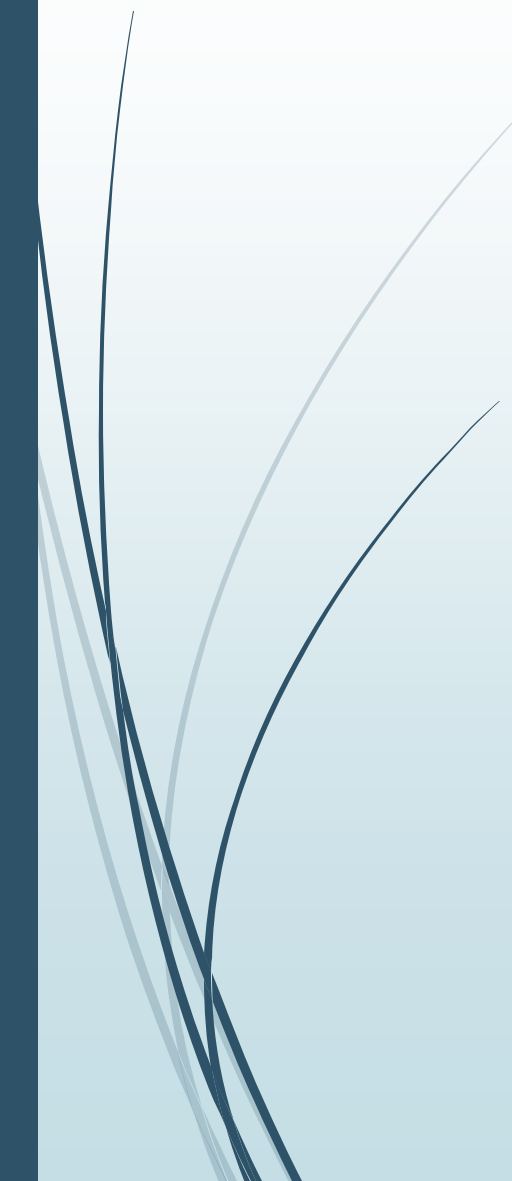


Class for beginners

- ▶ Basic Python Syntax
 - ▶ Variables types
 - ▶ Python collections
 - ▶ Python control flow
 - ▶ Function
 - ▶ class



Fun Projects for beginners

- ▶ Lucky sevens
 - ▶ Digital graphic by turtle
 - ▶ Alien video games
 - ▶ ATM
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Text book

➡ Python crash course



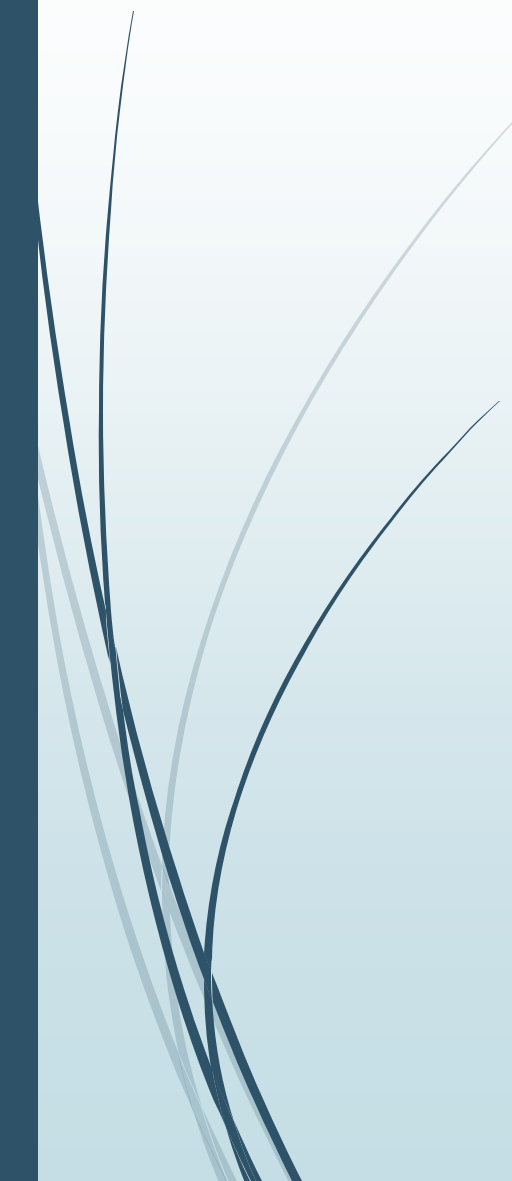


Tools and Apps

- ▶ Jupyter Notebook
- ▶ PyCharm
- ▶ Python IDLE
- ▶ Online Jupyter Notebook
- ▶ Playground - notebooks.azure.com



Goals for advanced programming class

- ▶ Practice python syntax
 - ▶ Design applications
 - ▶ Have fun
 - ▶ Explore
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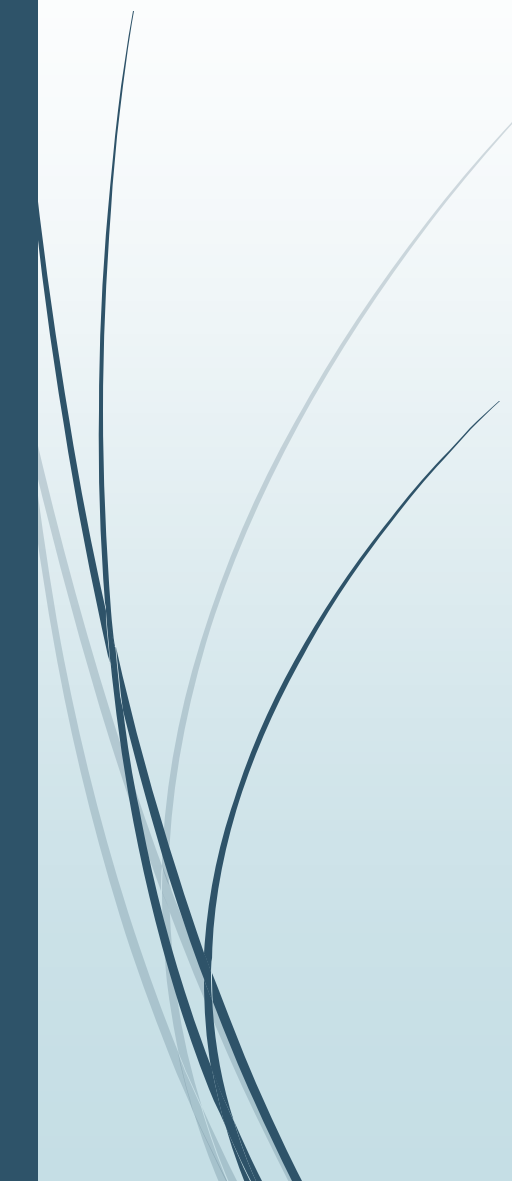


Advanced Programming Class

- ▶ Logging
- ▶ File
- ▶ Threading
- ▶ Lambda
- ▶ Data Processing
 - ▶ Matplotlib
 - ▶ Pandas
- ▶ Machine Learning
- ▶ Web application developing (flask)
- ▶ Windows application developing
- ▶ Video/audio/picture editing using Python



Projects in advanced class

- ▶ pygame
 - ▶ Stock charts from yahoo finance
 - ▶ Deep Racer test result log chart
 - ▶ Web Pages design
 - ▶ Windows app to convert YouTube to mp3
 - ▶ Machine learning project to predict house price
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Questions and answers



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