

华夏中文学校小游戏班

Draw cool pictures and designs with the Artist!

课程介绍

招生对象
1-3年级



Box Island

Take a trip on Box Island and collect all the stars! Box Island is a beautiful mobile coding game that takes kids on an exciting adventure on the charming island.

Let's use code to join Anna and Elsa as they explore the magic and beauty of ice. You will create snowflakes and patterns as you ice-skate and make a winter wonderland that you can then share with your friends!



Code with Anna and Elsa

Use drag-and-drop programming to make your own Flappy Bird game, and customize it to look different (Flappy Shark, Flappy Santa, whatever).



Artist

Bring some of your favorite Cartoon Network characters to life by coding your own animation. Add more characters and make them jump, fly, and talk.



Make a Flappy game

VEX机器人课

圣诞机器人



刘金小教练带领的小队12/16第一次参加VEX比赛，即荣获第一，进入下一轮州赛。



Be With You.
Poster, also

华夏总校的VEX机器人课始开于2016年春季，刘淦首任教练。VEX机器人大赛，是一项旨在通过推广教育型机器人，要求参赛队伍自行设计制作机器人并进行编程自动遥控的有技术含量又有魅力的项目。

左图是2017年华夏机器人队第一次参加地区赛的战车



左上图是2018年赛季中，华夏机器人队的选手在比赛进行中。VEX机器人比赛讲究的不仅是机器人设计的技巧操控机器人的技能，更是一个锻炼赛手们的合作精神，仅仅1分钟的赛时，要两个队友先后配合。多轮的比赛中还要和不期而遇的其他队合作，即会是对手又会是帮手。

左下图2019年新队伍在王淑杰老师和助理小教练Evan Gao的带领下于年初第一次参加比赛



2019年初的华夏机器人队在赛季比赛中，华夏机器人战队的番号是永远的45959A，但我们又有了新的队伍。

世界机器人大赛每年四月公布主题，预备参赛的队伍根据主题设计自己的机器人，比赛从九月拉开帷幕，一场一级地从地区到州里到全美，最后到世界级。

华夏机器人队伍在过去的比赛中未必走得很远，但孩子们投入了学习，在比赛中增长了见识。有的同学由此深爱上了这个富有挑战的有创造力的项目。

一组暑期学生在家上网课的情景

2021-2022年度世界级VES机器人大赛的比赛主题已经出来了，2021年秋季学期我们开设实体课程，欢迎新老学生一起，通过学习参加比赛实践。





Introduction to 3D Design

3D设计入门

Class Outline (课程大纲)

Dillon Ding (丁漠森)

Who is majoring in mechanical engineering in UT Austin, discovered his passion for 3D design ever since his middle school years when one of his teachers introduced it to him, and he wants to share this passion with his students. He is hoping this course will get them excited to learn about 3D design software, especially if becoming an engineer is something they're interested in. The biggest takeaway he wants his students to have is to always be imaginative and find creative ways to solve problems.

Class Objectives (课程宗旨)

Students will (学生将学到) :

- Use computer software to create 3D models of objects from scratch (starting with basic geometric shapes and then more complex objects as the class progresses)
使用电脑软件设计3D实物模型, 从头到尾全过程 (从基本的几何形状开始, 然后随着课程的进展而增加复杂度)
- Understand common functions of the software and apply them to the design process
了解软件的主要功能, 并学会如何在设计中使用
- Develop basic sketching skills
培养基本的素描技巧
- Learn how to use dimensions when designing objects
了解在设计实物时如何使用维度尺寸
- Build spatial visualization skills
掌握空间构思技能

Class Design (课程设计)

Level of Difficulty: Beginner/Intermediate
难度: 初学者/中级

Prerequisites: Basic Knowledge of Windows Operating System
预备知识: Windows 操作系统基本常识

Software Used: Autodesk Fusion 360 (provided free by Instructor)
软件: Autodesk Fusion 360 (由老师免费提供)

Final Project: Design a 3D object of Choice
毕业项目: 设计出一个自选3D实物模型

Example Object
(实物模型例子)



王黔江博士简介

休斯顿大学物理博士，从事计算机软件开发工作30多年，横跨如航天，物流，石油，保险，银行，航空等众多领域，熟悉软件发展的最新动态，对于Java，C# dotnet，Python，Angula，SQL server 数据库运用熟练。擅长网络应用软件的制作。特别是目前流行的MicroService，实体模拟编程，功能块导向编程，都有独到的见解。曾著有《Java实体模拟网络编程》一书，由中国人民邮电出版社出版发行。目前已经退休。

石油

物流

保险

BANK

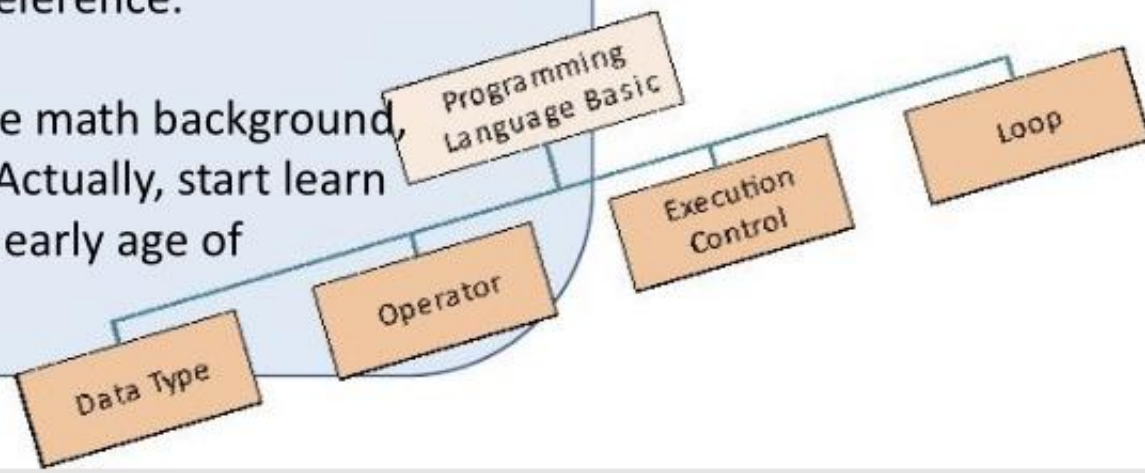
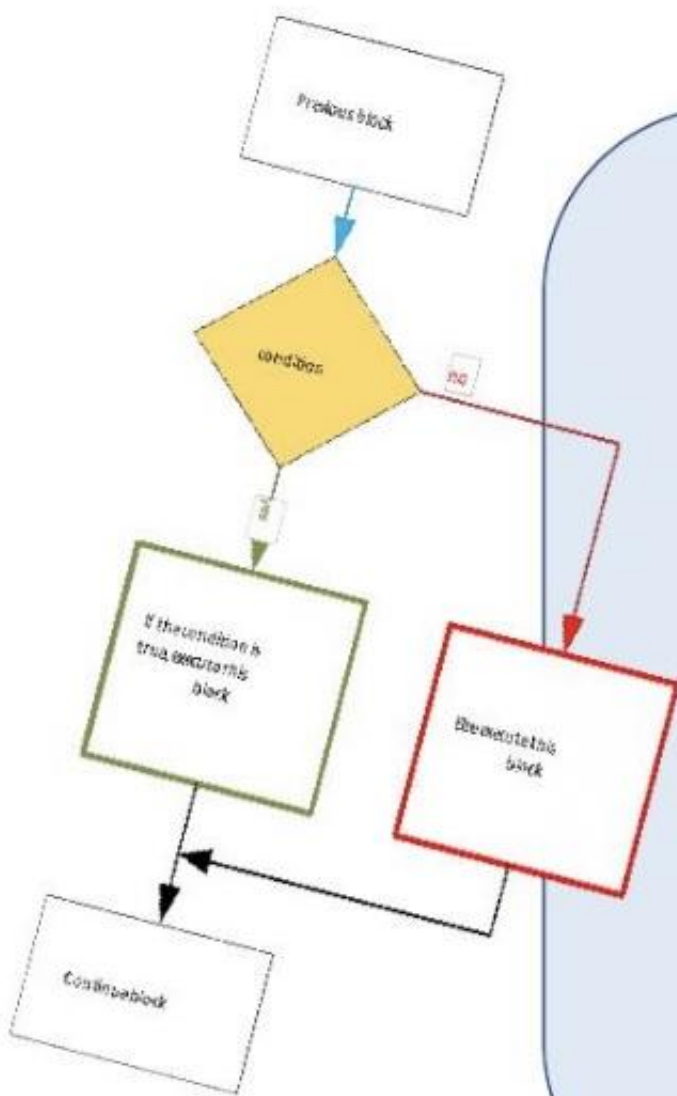
UNITED

航空

华夏中文学校Java课程简介

Java language course is designed for student start from scratch, learn from language basic to OOP programing. Not only teach students how to write Java program, also teach them how to write good program. This class will have new student class, Java continu-1, Java continue-2, and more. Try to build skill on user interface, business logic, database, unit test, logging, documentation, and product deployment. Very important, instructor will help each student write their own Java Notebook which include everything they have learned in the class, for future reference.

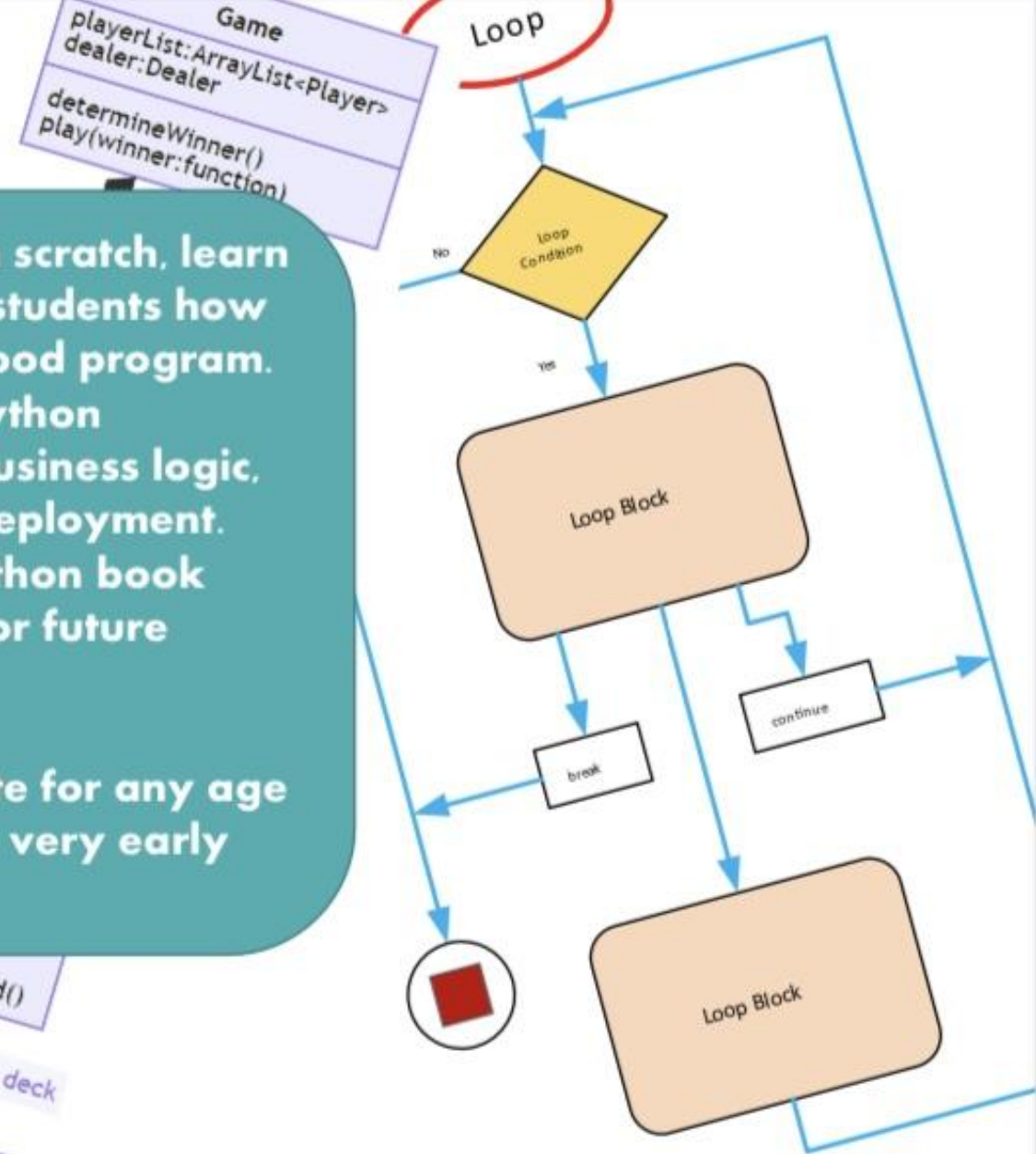
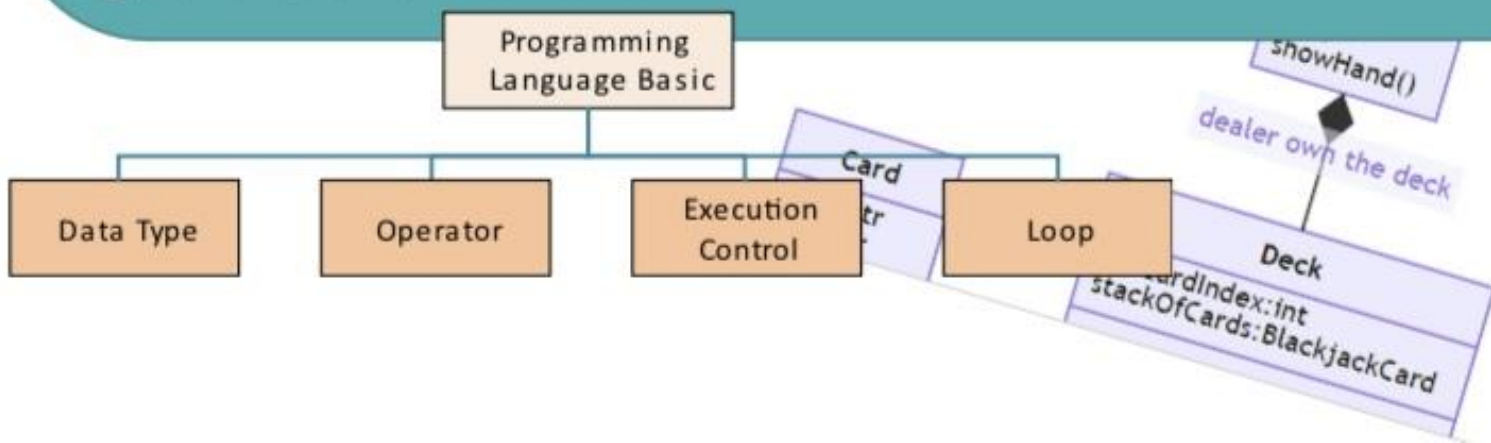
This course does NOT need more math background, it suites for any age of student. Actually, start learn computer language can be very early age of students.



华夏中文学校 Python 编程课程简介

Python language course is designed for student start from scratch, learn from language basic to OOP programing. Not only teach students how to write python program, also teach them how to write good program. This class will have new student class, python continu-1, python continue-2, and more. Try to build skill on user interface, business logic, database, unittest, logging, documentation, and product deployment. Very important, will help each student write their own Python book which include everything they have learned in the class, for future reference.

This course does **NOT** need more math background, it suite for any age of student. Actually, start learn computer language can be very early age of students.



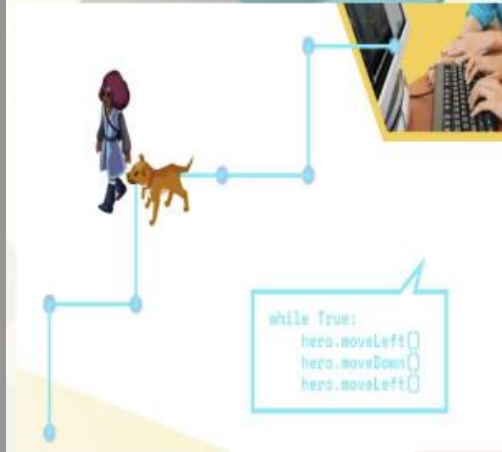
Python computer science & game design I

Hybrid – F2F or Online

01:30-03:00AM

recommended 4th grade or higher.

No experience required.



Computer Science that Captivates
A coding adventure for students.
An introduction to Python
programming.



**Coaches can monitor
student progress on an
ongoing basis, get
valuable information on
their performance, and
immediately identify
whether interventions
are needed.**



PYTHON FOR GAME DEVELOPMENT 2

Saturday 3:00 – 4:30

HYBRID Course F2F or Online Options

In this project base approach to Python, your child will gain the skills needed to create a multi-level game that will be as challenging as their imagination takes them.

**** Students who enroll in this program will have the opportunity to compete in local and national competitions through this course.**



```
else if (steering < -100);  
    steering = -100;  
if (steering > 0 && !isLeft)  
    factor = (1 - steering / 50.0);  
else if (steering < 0 && isLeft)  
    factor = (steering / 50.0 + 1);  
return (int)(factor * speed * 7.2);
```



Virtual Robotic Hybrid

4:30 – 6:00 p.m.

Face to Face & Online

In our Virtual Robotic Hybrid course students will experience multiple platforms to program robots. The goal of the course is to transition students from block coding to python line coding of these amazing online robots. These simulation platforms put students in realistic situations requiring a mastery of coding skills for success.

These skills can be applied to opportunities to compete in competition against other students locally and nationally.

