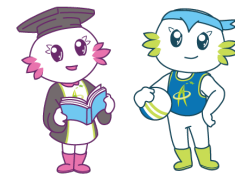香 港 資 優 教 育 學 苑
The Hong Kong Academy for Gifted Education
香 港 特 別 行 政 區 政 府 教 育 局 資 助
Subvented by the Education Bureau, the Government of the HKSAR

Learn about Gigi & Yoyo

C3COD006C

(Token- required)

[Gifted Programme]

Coding Course (Level III)

Generative Art & AI- Coding with JavaScript (P5JS)

Aether Education

Application Deadline
21 Jul 2025 12:00 noon

Result Release
25 Jul 2025

Intended Learning Outcomes

Upon completion of the gifted programme, gifted students should be able to:

1. master p5.js fundamentals and core programming concepts to create captivating graphics and interactive web experiences

2. utilize AI techniques, like machine learning and natural language processing, to generate innovative digital art

3. develop and execute collaborative final projects that incorporate generative AI, demonstrating teamwork and effective application of skills learned throughout the programme.

If student members withdraw from the programme after the Application Deadline, the token will be deducted.

◆ Gifted Programme Introduction

This advanced-level course is designed for students interested in the intersection of creative coding and artificial intelligence.

Students will explore generative art using JavaScript and p5.js, while integrating real-time AI models through ml5.js. Through hands-on experimentation, students will create interactive visual works driven by human movement, sound, and randomness. The course will also cover fundamental AI concepts such as pose detection, sound classification, and ethical considerations in AI-generated content. By the end of the course, students will have completed a self-directed final project combining creativity, interactivity, and AI.

◆ Schedule

Session	Date	Time	Venue
1	2 Aug	9:30 a.m. to 1:00 p.m.	2/F Zoroastrian Building, 101 Leighton Road, Causeway Bay, Hong Kong (Map)
2		2:00 p.m. to 5:30 p.m.	
3	9 Aug	9:30 a.m. to 1:00 p.m.	
4		2:00 p.m. to 5:30 p.m.	
5	16 Aug	9:30 a.m. to 1:00 p.m.	
6		2:00 p.m. to 5:30 p.m.	

◆ Suitable for

- S1 – S6 HKAGE student members in 2024/25 school year.
- Class size: 36

◆ Pre-requisite

Students must bring their own laptop with keyboard to class.

◆ Medium of Instruction

English with English handouts

◆ Screening

Please answer the screening question in the online application form.

*The screening question is designed to help the applicant understands the course level and the course content. The question must be answered by the student applicant and it can only be attempted once. The answer cannot be changed once the application is submitted. Selection is based on students' performance in answering the question. Only students who can demonstrate motivation and the knowledge of coding in the screening question can be enrolled in the programme.

◆ Certificate

E-Certificate will be awarded to participants who have:

- attended at least 5 sessions; AND
- completed all the assignments with satisfactory performance

◆ Enquiries 📞 3940 0101 ✉ programme@hkage.org.hk