Welcome to the

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Skills Bootcamp Open Session - OOP Classes

The session will start shortly...

Questions? Drop them in the chat. We'll have dedicated moderators answering questions.

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Cyber Security Session Housekeeping

- The use of disrespectful language is prohibited in the questions, this is a supportive, learning environment for all - please engage accordingly. **(Fundamental British Values: Mutual Respect and Tolerance)**

- No question is daft or silly - **ask them!**

- There are **Q&A sessions** midway and at the end of the session, should you wish to ask any follow-up questions. Moderators are going to be answering questions as the session progresses as well.

- If you have any questions outside of this lecture, or that are not answered during this lecture, please do submit these for upcoming Academic Sessions. You can submit these questions here: **Questions**

Cyber Security Session Housekeeping cont.

- For all **non-academic questions**, please submit a query: **www.hyperiondev.com/support**

- We would love your **feedback** on lectures: **Feedback on Lectures**

- Find all the lecture **content** in you **Lecture Backpack** on GitHub.

- If you are hearing impaired, please kindly use your computer's function through Google chrome to enable captions.

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Safeguarding & Welfare

We are committed to all our students and staff feeling safe and happy; we want to make sure there is always someone you can turn to if you are worried about anything.

If you are feeling upset or unsafe, are worried about a friend, student or family member, or you feel like something isn't right, speak to our safeguarding team:

Ian Wyles
Designated Safeguarding Lead

Simone Botes

Nurhaan Snyman

Rafiq Manan

Ronald Munodawafa

Tevin Pitts

Scan to report a safeguarding concern

or email the Designated Safeguarding Lead:
Ian Wyles
safeguarding@hyperiondev.com

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Stay Safe Series:

Mastering Online Safety One week at a Time

While the digital world can be a wonderful place to make education and learning accessible to all, it is unfortunately also a space where harmful threats like online radicalization, extremist propaganda, phishing scams, online blackmail and hackers can flourish.

As a component of this BootCamp the *Stay Safe Series* will guide you through essential measures in order to protect yourself & your community from online dangers, whether they target your privacy, personal information or even attempt to manipulate your beliefs.

Pause Before You Post:

Managing Your Digital Presence

- Impact on Reputation.
- Permanent Record.
- Privacy Concerns.
- Miscommunication.
- Influence on Others.
- Professional Implications.
- Mental Well-being.

Learning Objectives & Outcomes

- Discuss classes and objects in Python
- Create and use simple classes with attributes and methods

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- How might you model a smartphone with properties (like brand or model) and actions (like calling or texting)?

Please have a look at the poll notification and select an option.

Have you worked with classes in Python before?

a. Yes
b. No

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Polls

Please have a look at the poll notification and select an option.

What aspect of OOP interests you the most?

a. Creating classes
b. Using Methods
c. Learning OOP principles

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Classes

- Classes are the foundation of object-oriented programming (OOP), which allows us to organize code efficiently and design more complex systems with ease.

Introduction to Classes and Objects

- **Class**:
  - A blueprint for creating objects (a type or category of object).
- **Object**:
  - An instance of a class, with its own unique data and methods.
- In Python, everything is an object, including integers, strings, functions, and classes.

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Polls

Please have a look at the poll notification and select an option.

Which keyword is used to define a class in Python?

```
a.  define
b.  class
c.  Object
d.  method
```

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Polls

Please have a look at the poll notification and select an option.

What does the **self** keyword represent in a class method?

- a. The module where the class is defined.
- b. A variable that can store any value.
- c. The current instance of the class.
- d. A placeholder for an integer.

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Please have a look at the poll notification and select an option.

What is the correct syntax to create an instance of a class called **Car**?

```
a.  Car = new Car()
b.  myCar = Car()
c.  myCar.Car()
d.  create Car myCar
```

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Questions and Answers

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Thank you for attending

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