Welcome to the CoGrammar

Task Walkthrough

The session will start shortly...

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

Software Engineering 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.
- 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**

Software Engineering 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.

Learning Objectives/Outcomes

By the end of this lesson, learners should be able to:

- Define Python classes.
- Visualise how the concept of OOP works in programming.
- Create and use classes and objects.

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

CoGrammar HyperionDev

OOP

November 2024

Poll Questions

What is an object in Python?

A) A function

B) An instance of a class

C) A variable

D) A module

Poll Questions

In OOP, which term describes restricting access to certain parts of an object?

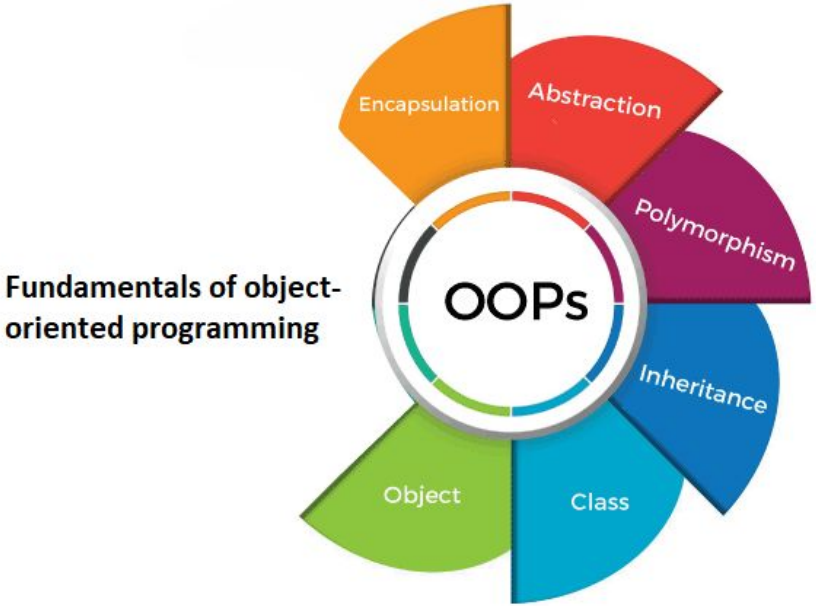
A) Inheritance

B) Abstraction

C) Encapsulation

D) Polymorphism

OOP Pillars


Fundamentals of object-oriented programming
OOPs
Encapsulation
Abstraction
Polymorphism
Inheritance
Class
Object

Poll Questions

Which method would you use to represent an object as a string in Python?

A) __init__

B) __str__

C) __del__

D) __call__

Poll Questions

Which of these statements is true about Python's multiple inheritance?

A) Python does not support multiple inheritance

B) Python allows multiple inheritance

C) Python only supports multiple inheritance with special syntax

D) Python multiple inheritance must use the super() function

Questions and Answers

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Thank you for attending

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