



CoGrammar

Theory Lecture

**SKILLS
FOR LIFE**

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Software Engineering Lecture Housekeeping

- The use of disrespectful language is prohibited in the questions, this is a supportive, learning environment for all - please engage accordingly.
(FBV: Mutual Respect.)
- 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 Open Classes.
You can submit these questions here: [Open Class Questions](#)

Software Engineering Lecture Housekeeping cont.

- For all **non-academic questions**, please submit a query: www.hyperiondev.com/support
- Report a **safeguarding** incident: www.hyperiondev.com/safeguardreporting
- We would love your **feedback** on lectures: [Feedback on Lectures](#)



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“Hello World”

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Lecture Objectives

- 1. Define Python as a high-level programming language.**
- 2. Explain the concept of variables and their role in storing and managing data in Python.**
- 3. Demonstrate basic string usage.**



Poll:

Assessment






Which Apps Are Developed With **Python**




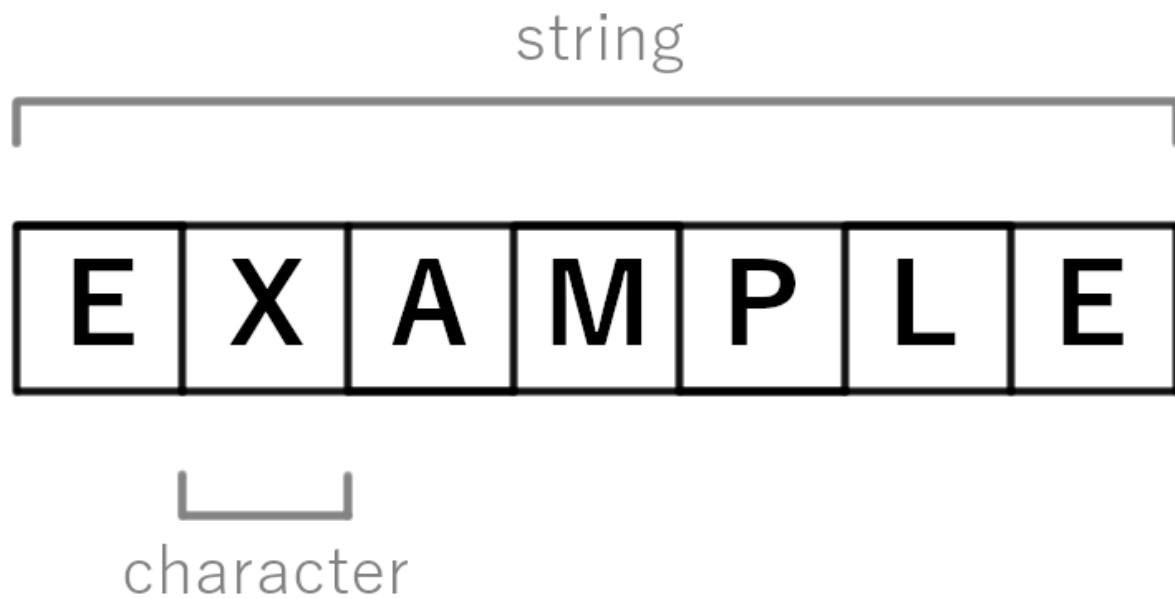


Question:



Why is Python considered an easy-to-learn programming language, and what are its popular use cases?





Strings

```
2  double_quote = "The quick brown fox jumps over the lazy dog"
3  single_quote = 'A'
4
5  # Assigning a string to a variable
6  name = "Miles"
7  surname = "Morales"
8
9  # Assigning the result of two concatenated strings to a variable called 'full_name'
10 full_name = name + surname
11 print(full_name)
12
13 full_name = name + " " + surname
14 print(full_name)
15
16 # BONUS ALERT!!! --> Using formatted-strings :)
17 full_name = f"{name} {surname}"
18 |
19 # Printing whatever is stored in the full_name variable to the terminal
20 print(full_name)
```

Variables



Best Practices



Strings

```
2 double_quote = "The quick brown fox jumps over the lazy dog"
3 single_quote = 'A'
4
5 # Assigning a string to a variable
6 name = "Miles"
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16 # BONUS ALERT!!! --> Using formatted-strings :)
17 full_name = f"{name} {surname}"
18
19 # Printing whatever is stored in the full_name variable to the terminal
20 print(full_name)
```



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Practical Lecture

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Challenge:



Identify any naming convention violations and suggest corrections.





Poll:

Assessment



Wrapping Up

Python

Python is a high-level, interpreted programming language known for its simplicity and readability.

Strings

They can be created using single (' '), double (" ") quotes.

Variables

Variables are declared and assigned values using the assignment operator (=).

Progression Criteria

✓ **Criterion 1: Initial Requirements**

- Complete 15 hours of Guided Learning Hours and the first four tasks within two weeks.

✓ **Criterion 2: Mid-Course Progress**

- Software Engineering: Finish 14 tasks by week 8.

✓ **Criterion 3: Post-Course Progress**

- Complete all mandatory tasks by 24th March 2024.
- Record an Invitation to Interview within 4 weeks of course completion, or by 30th March 2024.
- Achieve 112 GLH by 24th March 2024.

✓ **Criterion 4: Employability**

- Record a Final Job Outcome within 12 weeks of graduation, or by 23rd September 2024.

Software Engineering Lecture Housekeeping cont.

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Questions around String and Variables



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Thank you for joining

