



# CoGrammar

“Reading Files”

**SKILLS  
FOR LIFE**

**SKILLS BOOTCAMPS**



Department  
for Education

# Software Engineering Lecture Housekeeping

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- 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.

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

# Lecture Objectives

1. **Learn about the concept of file handling in Python.**
2. **Explore different file modes for reading files, understanding how each mode behave and when to use them.**
3. **Apply common methods for reading files.**

# Opening Files

*Relative or Absolute path to the file  
(including the extension)*

```
open ( <file> , mode )
```

*A String (Character) indicates  
what you want to do with that file*

# File Modes

Table 1: Python File modes

Mode	Description
'r'	Opens a file for reading.
'w'	Open a file for writing. If file does not exist, it creates a new file. If file exists it truncates the file.
'a'	Open a file in append mode. If file does not exist, it creates a new file.
'+'	Open a file for reading and writing (updating)

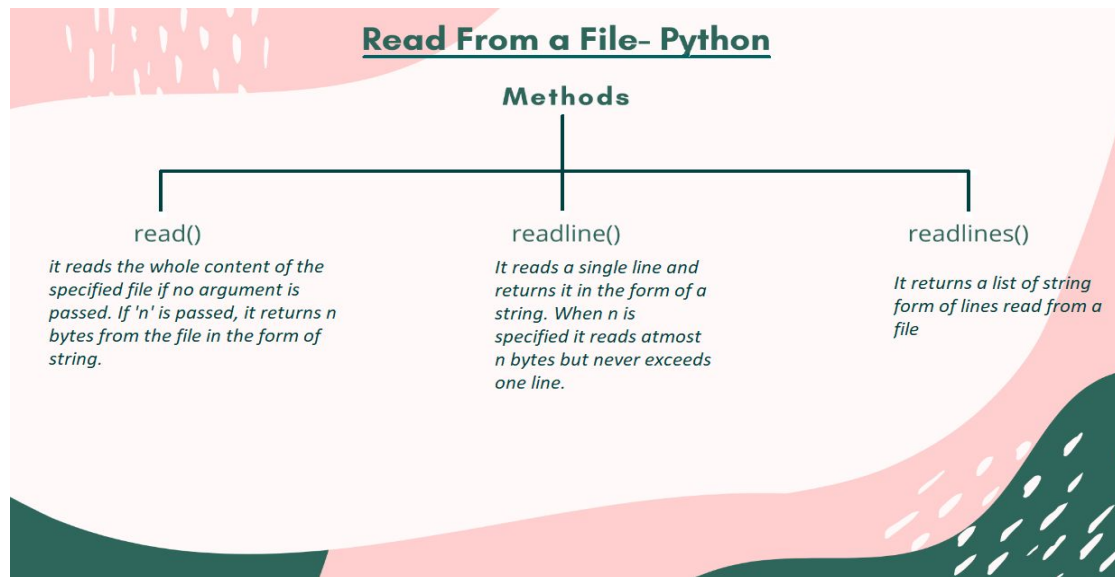


Poll:

**Assessment**



# File Methods for Reading






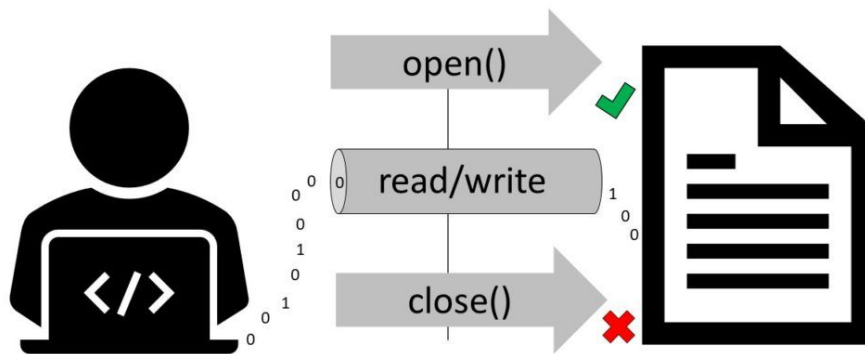


## Question:

**How would you read the entire contents of a text file using Python file handling methods ?**



# Closing Files



# Best Practices





## Challenge:



**What is the purpose of the 'r' mode in Python file handling ?**





Poll:

Assessment



# Wrapping Up

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## Opening Files

To open a file in Python, use the `open()` function specifying the file path and the desired mode.

## File Modes

File modes determine how a file is opened and what operations can be performed on it.

## File Methods

Operations that allow us to manipulate and interact with files.

# 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.
- Data Science: Finish 13 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.

# CoGrammar

Questions around reading files





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**Thank you for joining**

