



CoGrammar

Tutorial: Debugging



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Department
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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](#)



Debugging



Lecture Objectives

1. Debugging
 - a. Hypothesis-driven debugging
 - b. Debugging in VS code



Hypothesis-Driven Debugging



Hypothesis-Driven Debugging

The key steps involved in this approach:

- Identify the problem or failure.
- Formulate a hypothesis about the cause.
- Design and conduct experiments to test the hypothesis.
- Analyze the results and refine the hypothesis if necessary.
- Repeat the process until the issue is resolved.

Benefits of Hypothesis-Driven Debugging

The advantages of using this approach in debugging:

- Provides a structured and systematic approach to problem-solving.
- Helps in narrowing down the potential causes of the issue.
- Saves time and effort by focusing on relevant experiments.
- Facilitates learning from debugging experiences and improving future debugging skills.



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Thank you for joining