
Introduction to Data Science Programming Live Session

Week 5

Taylor Martin

Section 8

Remind me to start recording! 😊 & sync your forks

Today

- Big Ideas Presentation
- Part I: Activity 1 - Function Practice Week 5 activity & discussion
- Interview Question Practice
- Survey

Big Ideas Presentation

- Take it away Carlos, Vai & Ender...

Part I: Function Practice Week 5 activity

- 15-20 min
- Stop at Activity 2 - Using Try/Except with your Function
- If done early
 - Activity 4 - Bonus in Lambda Function

Part I: Week 5 activity discussion

- Explain how your *vowel_density* function works.
- How does adding a default parameter improve the flexibility of your function?
 - Can you give an example of when this would be useful in a real-world scenario?
- What's the difference between positional and keyword arguments?
- What would be good to test for in the *vowel_density* function?

Part II: Errors Week 5 activity

- 15-20 min
- Activity 2 - Using Try/Except with your Function
- Activity 3 - Namespace and The Stack!
- If done early
 - Activity 4 - Bonus in Lambda Function

Part II: Week 5 activity discussion

- What's the difference in using `return` in a function instead of just printing values?
- What are two advantages of programming with functions?
- Justify the design (exceptions are raised inside the `vowel_density` function and caught in the main script).
- Talk us through the stack trace from top to bottom to explain it.

Lambda functions

- What are some advantages of using lambda functions compared to regular functions in Python?
- When would you choose to use a lambda function?
- Lambda functions are also first-class objects in Python, so you can pass a lambda function as an argument to another function.
 - How would you pass your `imma_function` (cubes a single number) to a higher-order function?

Big Ideas Next Week

- Georgios

Interview Question Practice