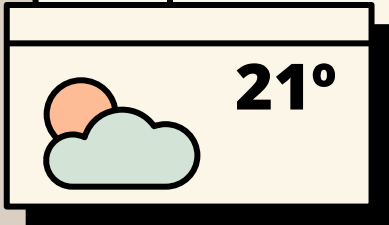
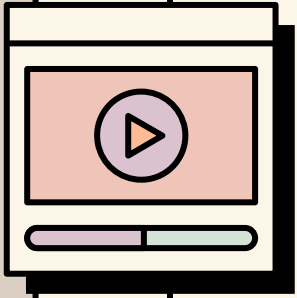


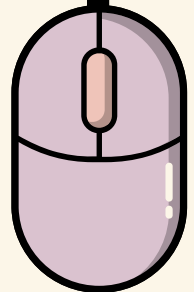
GWC-CU Intermediate Python



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Lecture 3 | Fall 2023

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# Agenda



**01**

**Let's catch up!**

Week 2 reviewing

**02**

**Lecture**

Data Analysis &  
Visualization

**03**

**Project time!**

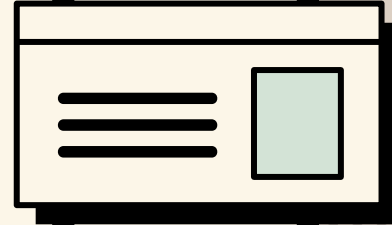
Independent work time

**04**

**Solution &  
Wrap up**

# Classroom Agreements....

- Don't be afraid to ask questions/for help!
- Be considerate of everyone else!
- Be respectful and supportive of your classmates to ensure class is a safe learning environment!



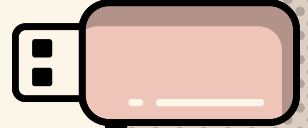
01

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# Week 2 Review



Let's see what we need to explain better :)



slido



# What is the main difference between a list and an array?

① Click **Present with Slido** or install our [Chrome extension](#) to activate this poll while presenting.

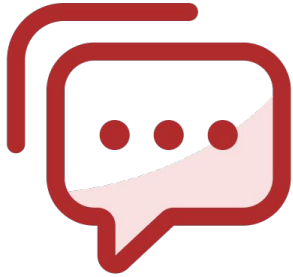
slido



**What is the specificity of tuples compared to lists and arrays?  
(answers are anonymous)**

① Click **Present with Slido** or install our [Chrome extension](#) to activate this poll while presenting.

slido



# Audience Q&A Session

① Click **Present with Slido** or install our [Chrome extension](#) to show live Q&A while presenting.

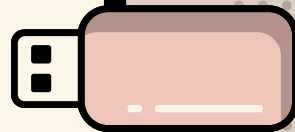
02

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# Lecture



Data Visualization







# Today's Topics



**Types of  
data**

**Series**

**DataFrames**

**Loading  
Data**

**Cleaning  
Data**

**Plotting  
charts**



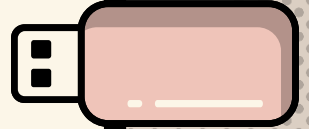
# Workshop with the teachers!

- Feel free to ask any questions in the chat at any time!
- These resources will be shared with you at the end of the session
- **Reminder: NO QUESTION IS STUPID**
  - If you are unsure about a concept, you're not alone.
  - You are here to learn and we are here to maximize your learnings :)

03

# Project Time!

Billboard Analysis in breakout rooms





# Today's Exercises



**Distribution  
of the  
#weeks in  
top 200**



**Artists  
ranked by  
#albums in  
top 200**



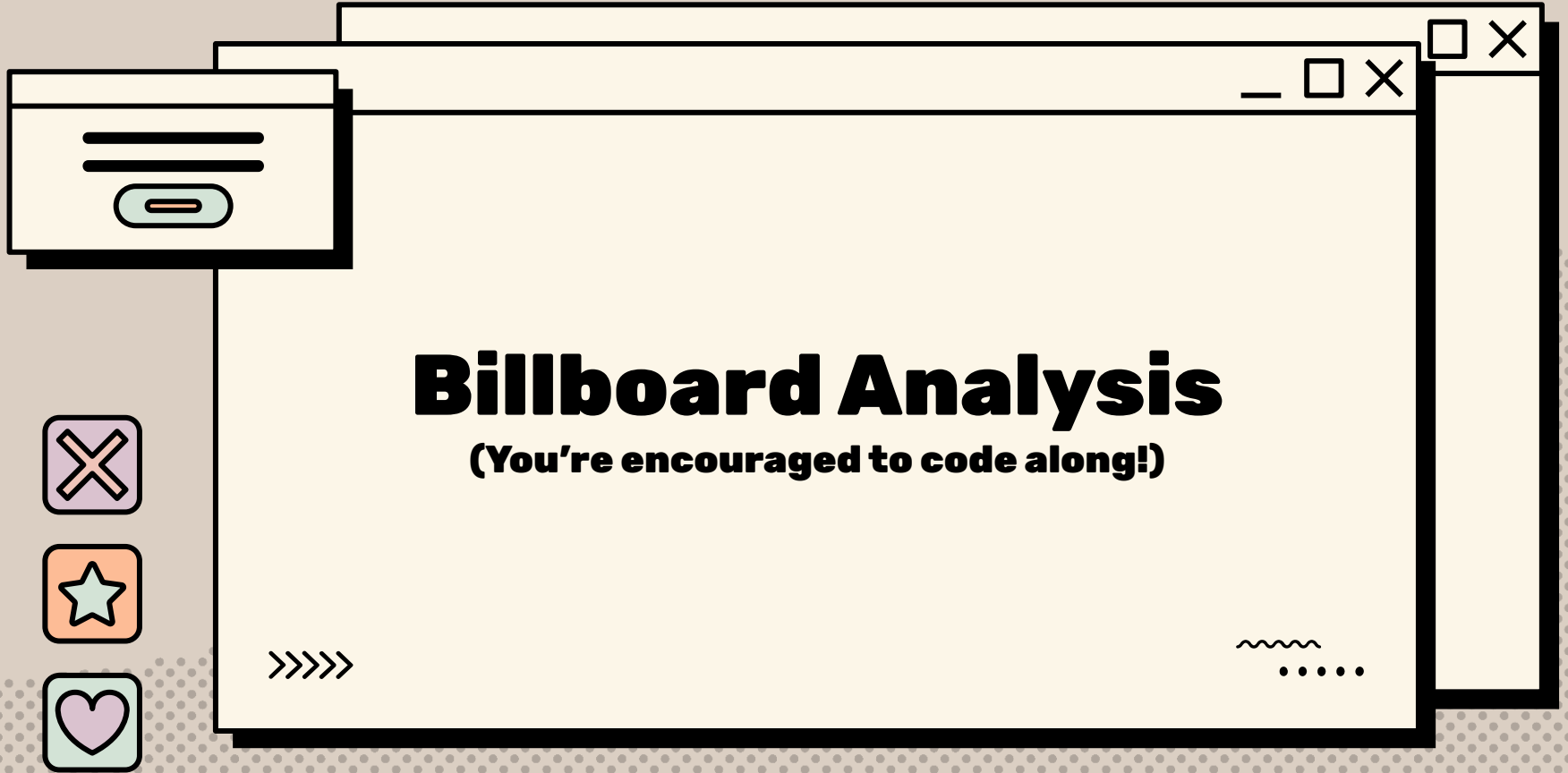
**Best  
progress  
WoW (album)**

04

# Solution & Wrap Up

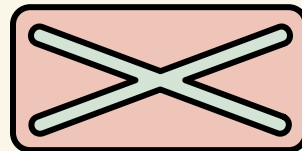
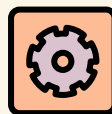
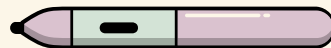
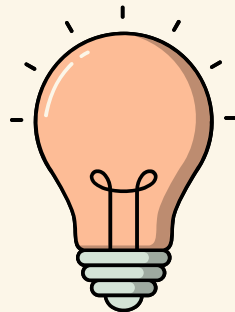
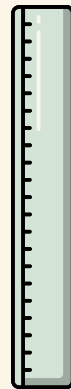
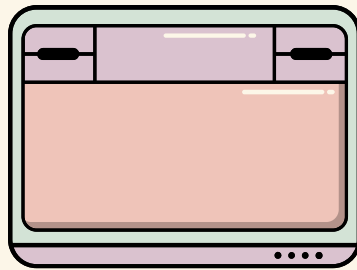
Billboard Analysis

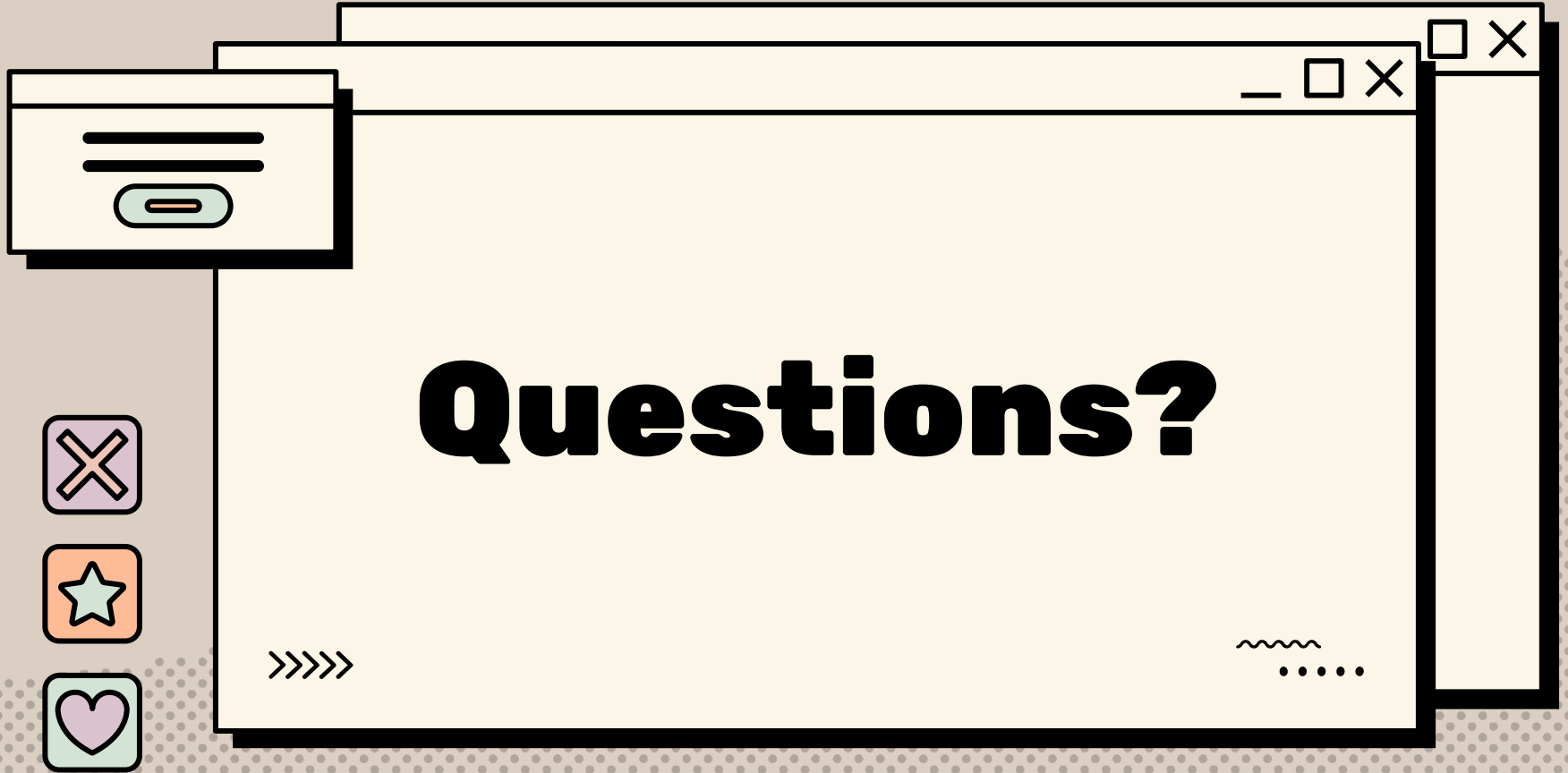




# Wrapping Up...

- We discovered how to analyze data in Python using Pandas and Matplotlib!
  - Series & Dataframes
  - Common operations
  - Data cleaning
  - Basic plots
- You completed a quick analysis of Billboard 200 🎉





**Questions?**

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Exit Ticket!

- Please complete before you leave
- Completely anonymous!

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