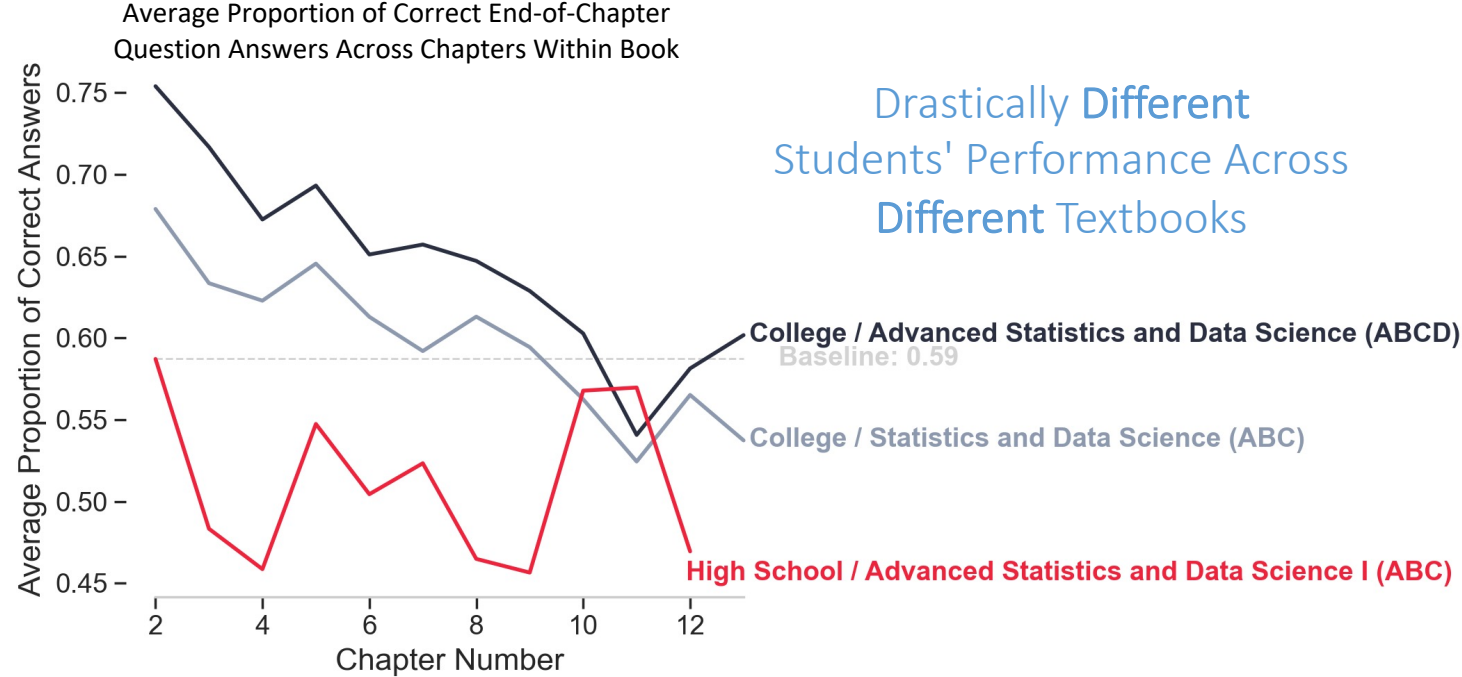


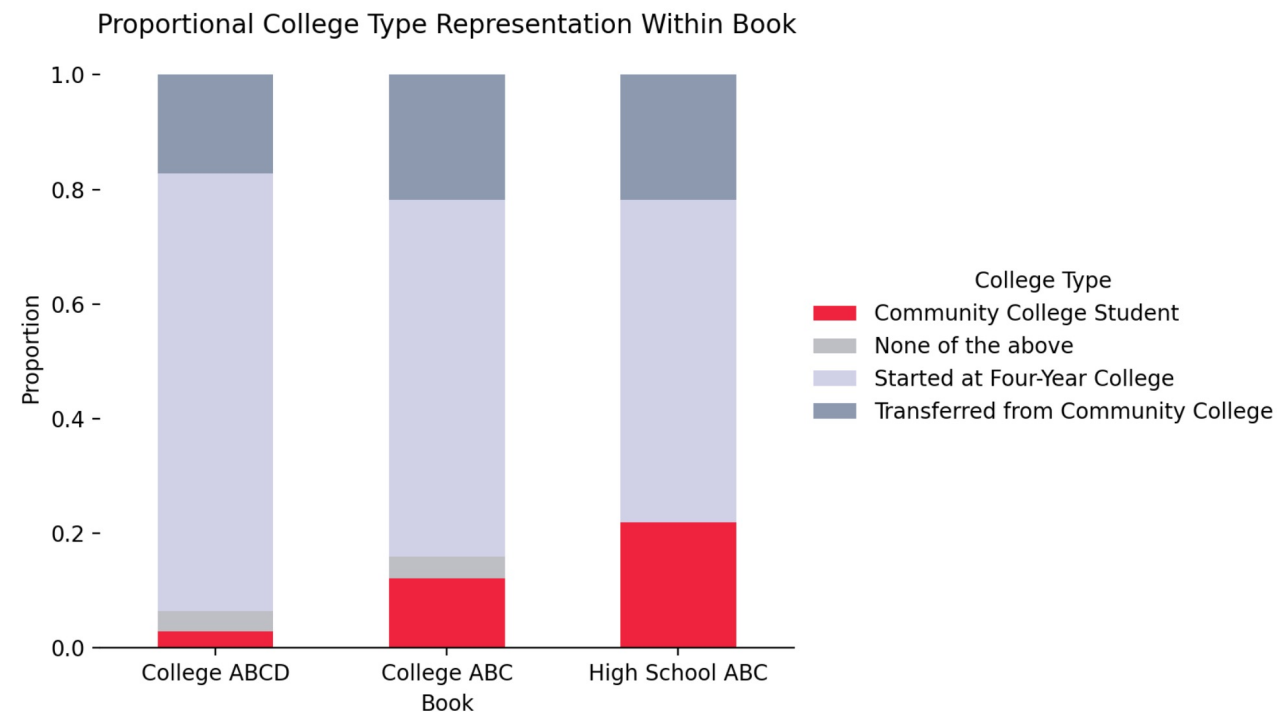
# From "Hello World" to Beyond

——An Analysis of Statistical & Data Science Learning Journey on Course [Kata](#)

Team JELT JIAN: Eric Rios, Lisa Wang, Luopeiwen Yi, Jiayi Zhou



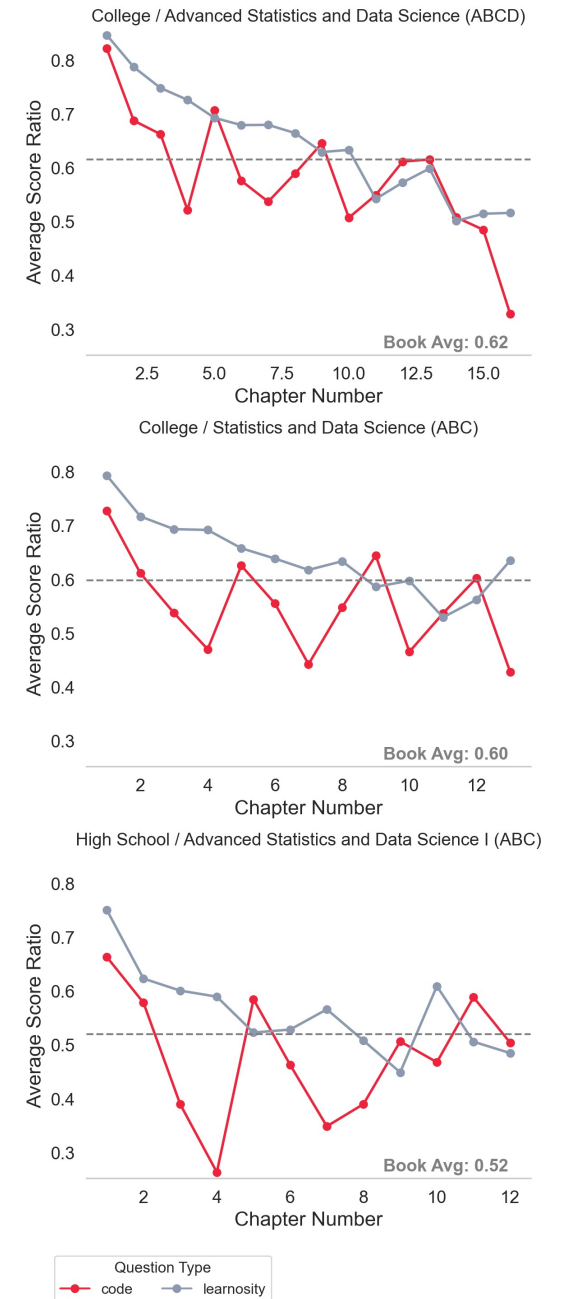
In general, students have **LOW** average score ratio on coding questions across all three textbooks



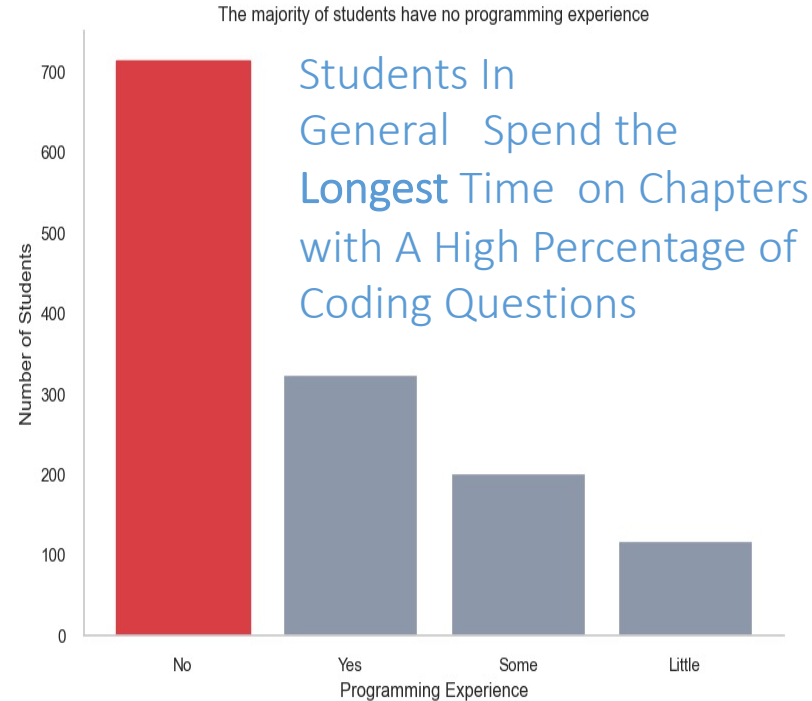
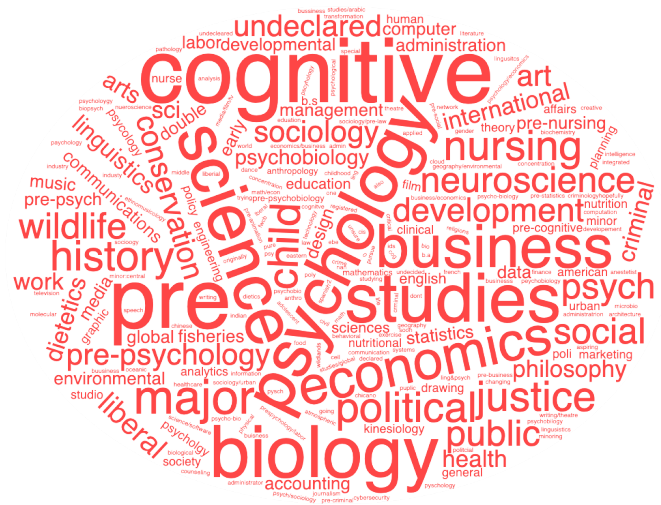
### Recommendations:

- **More tailored Foundational Contents for student groups with weaker educational backgrounds**
- **More Hands-On Guided Coding Learner Labs**

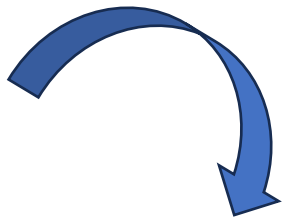
Average Score Ratio by Book, Chapter, and Question Type



# Many Students Come From Non-Technical Backgrounds (Majors)

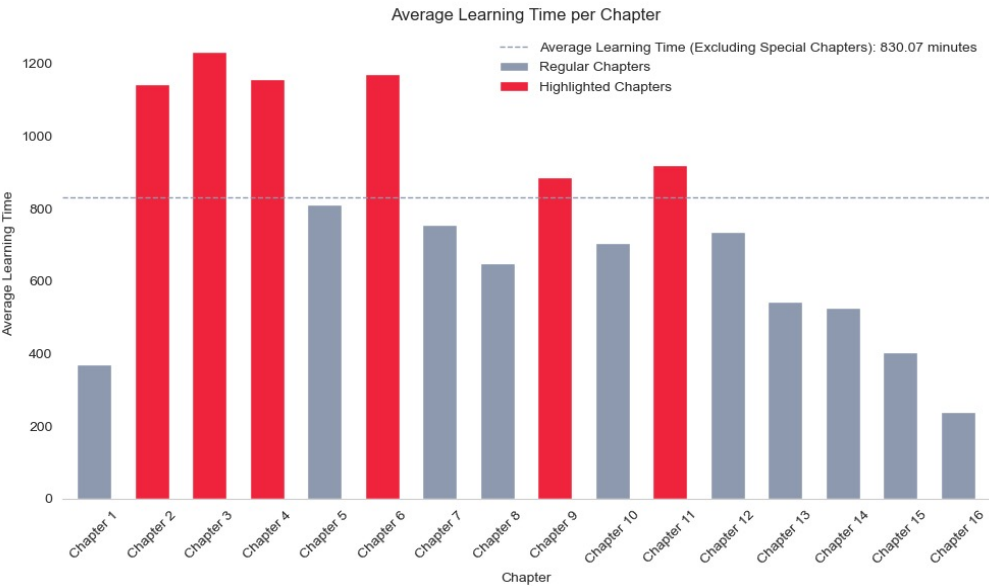


Students In General Spend the Longest Time on Chapters with A High Percentage of Coding Questions



Percentage of Question Types By Chapter

Chapter Number	code	learnosity
	71.89	28.11
	33.25	66.75
	33.54	66.46
	18.88	79.01
	19.04	80.96
	22.61	77.39
	16.59	83.41
	20.72	79.28
	14.53	82.36
	24.55	75.45
	23.44	76.56
	19.82	80.18
	25.90	74.10
	30.00	70.00
	15.42	84.58
	25.12	74.88

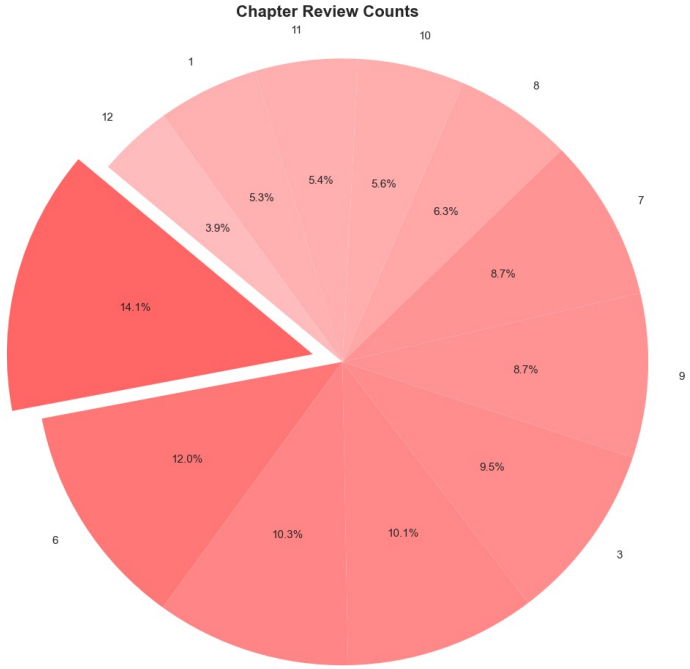
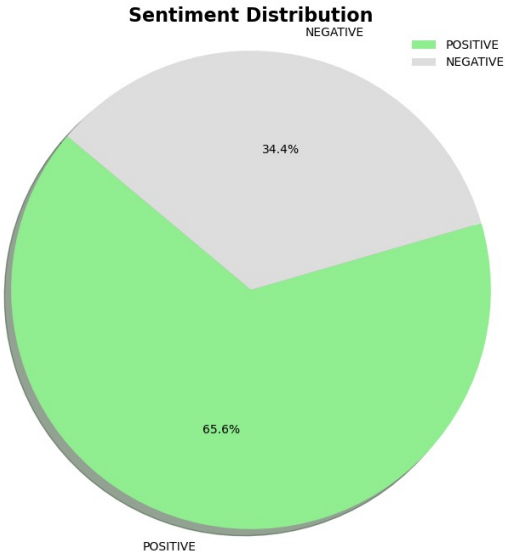


- Recommendations:**
- Show Difficulty Levels and Time Commitments Customized to Distribution of Past Learning Records
  - Customized Learner Lab Data Examples Based on Students' Backgrounds (Majors)

# Sentiment Analysis on Students' Post-Class Survey

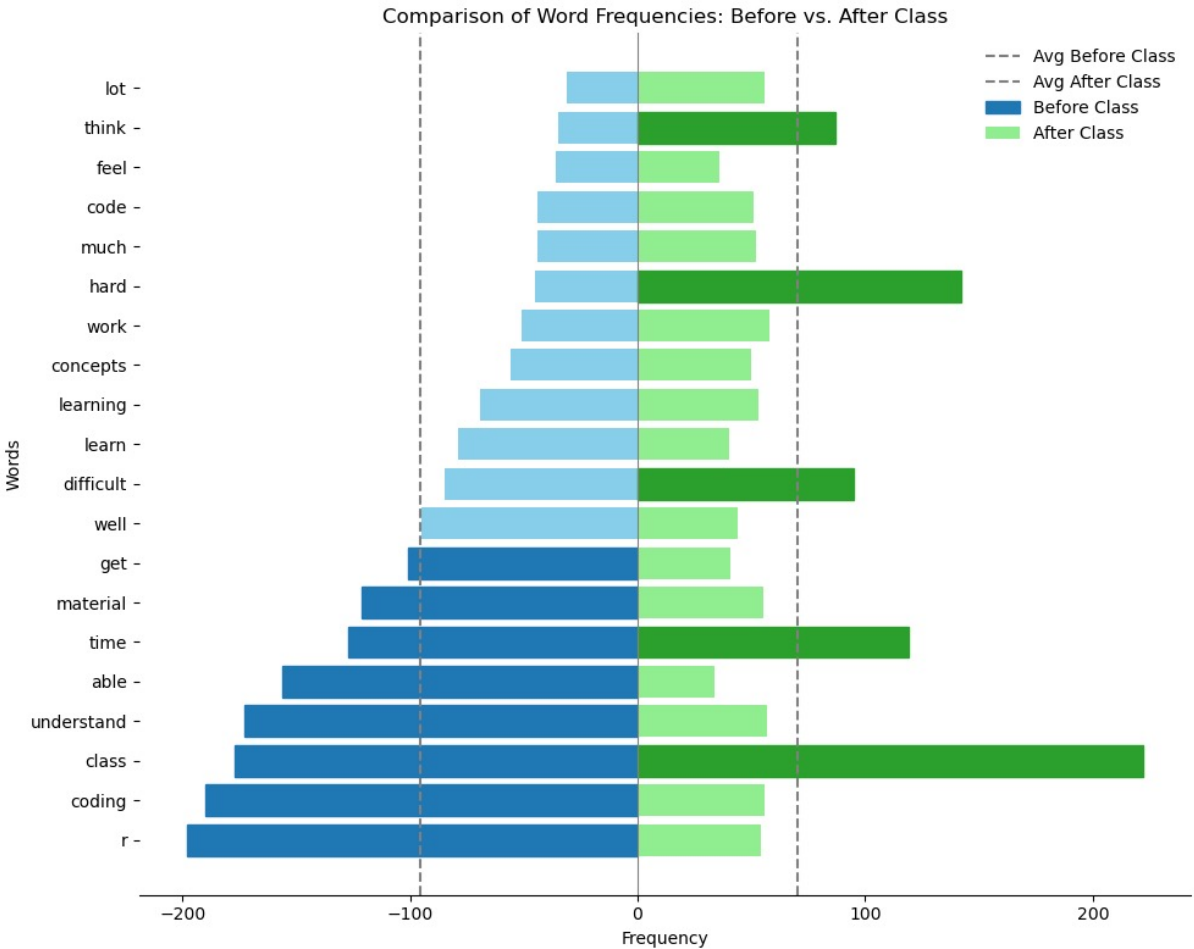
2/3 students show positive feedback towards their learning experience

High Reviews on Chapter 2, coding and theory heavy.



Pre-Class: Students show high concerns regarding their ability to understand the materials, potential time investment. Noticeably, they demonstrate the highest concern regarding **Coding** and **R**.

Post-Class: Students reflect most on the **difficulties**, **challenges**, **critical thinking**, and **time** they invested in their **class**.



## Recommendations:

Implement **Chatbot** to Encourage More Consistent Student Engagement and Reviews Throughout a Complete Study Cycle

THANK YOU!