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ABSTRACT

The COVID-19 pandemic has profoundly affected college education, leading to adjustments in learning methods. This study examines post-pandemic adaptations, focusing on students with learning gaps and their preferred learning modalities, such as videos, books, and online platforms. Key findings indicate students value clear explanations, illustrations, and optimal-length educational videos, relying on repeated exposure and study groups for reinforcement. Insights from this research will be used to develop an online platform offering subject-specific educational videos to help bridge learning gaps. Understanding student preferences and experiences is crucial for enhancing learning outcomes and creating tailored, inclusive educational resources.

BACKGROUND

- The COVID-19 pandemic significantly impacted college education, leading to various adjustments in learning.
- The study assesses post-pandemic influences on students with learning gaps, focusing on their preferred learning methods.
- Preferred methods include videos, books, web platforms, and group collaborations across disciplines like science, engineering, arts, business, medicine, and computing.
- Key findings:
 - Students value clear explanations, illustrations, and optimally-length educational videos.
 - Online platforms like YouTube and Khan Academy are commonly used for subjects such as computer science and biology.
 - Insights from the study will inform the creation of an online platform offering educational videos to bridge learning gaps and support future learning.
 - Understanding student experiences and preferences is crucial for enhancing educational outcomes and developing tailored resources.



OBJECTIVES

- We aim to fix the learning gaps with a platform we've built ourselves, perfect A.
- With the right support any student can achieve a perfect 'A' every time.

METHODS

- Using a QR code tied to a google form, 130 current college students completed a survey.
- Perfect A uses statistical data collected from the research to analyze and find outliers and interesting findings.
- Example Question: "Which resources work best for you"

Perfect A used a Google form and QR code to randomly survey current college students about their understanding of field concepts, preferred learning methods, and effective educational resources. Approximately 130 students participated, revealing a trend that students prefer videos over platforms like Khan Academy. The results section analyzes the statistical data to identify outliers and noteworthy patterns.

RESULTS

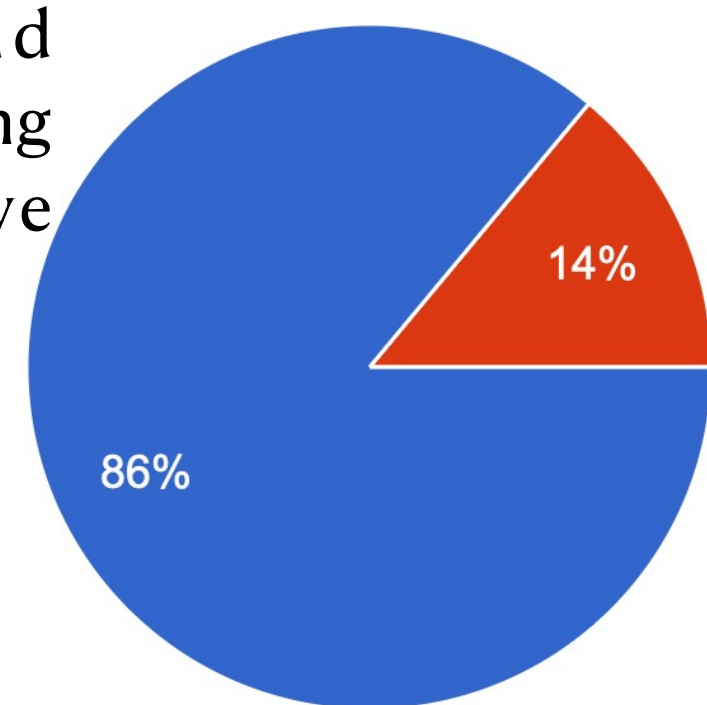


Fig1: 129 current, random college students were asked. "Do you feel that are some topics you've been taught but still don't understand?" 86% reported they did 14% reported they had not.

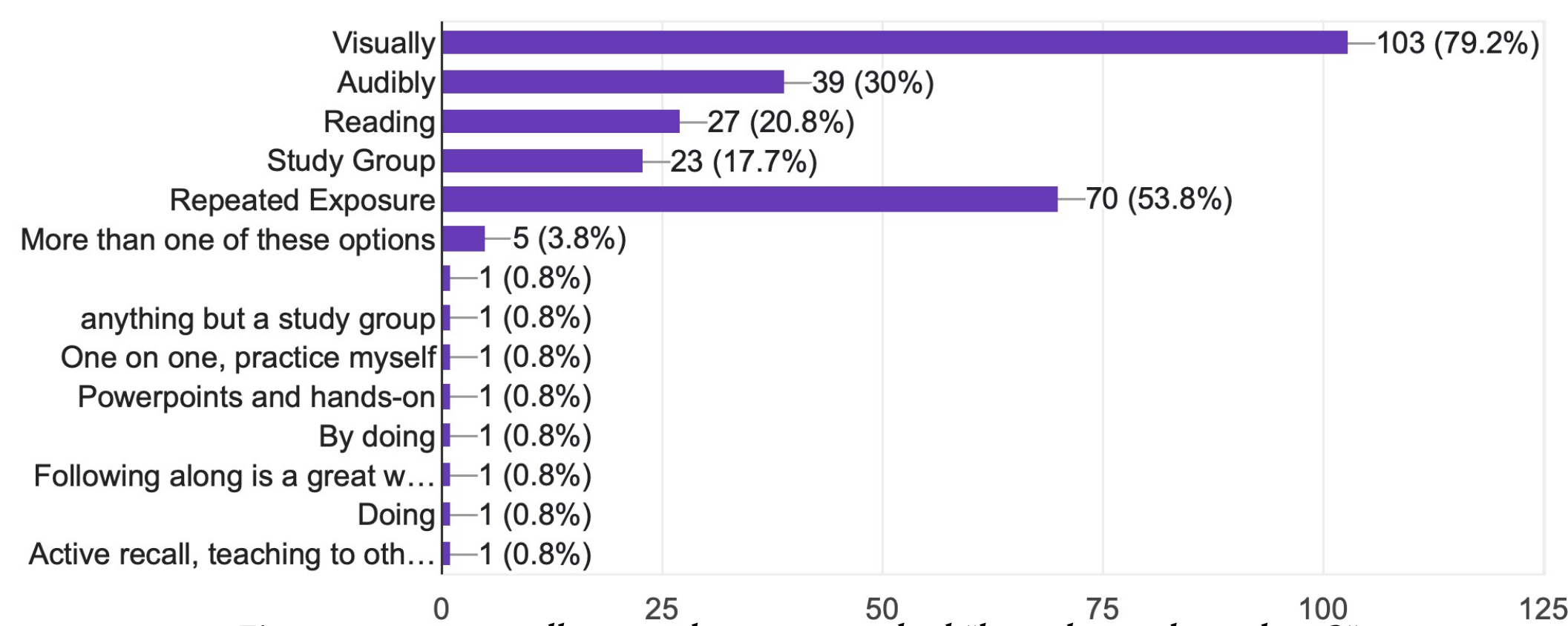


Fig2: 130 current college students were asked "how do you learn best?" Top responses: visually, repeated exposure and audibly

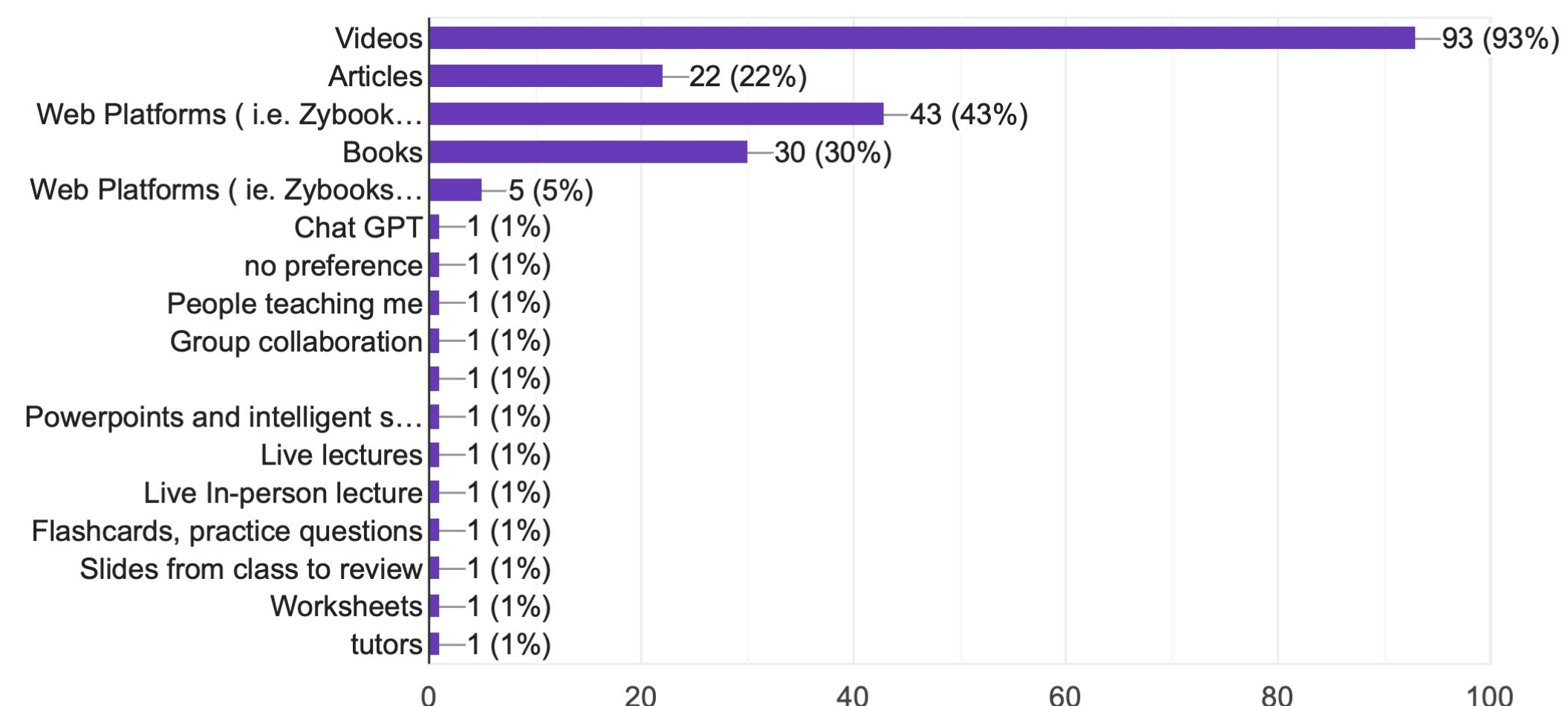


Fig3: 100 random college students were asked "Which resources work best for you?" Top Responses: Videos, Web platforms, and Books.

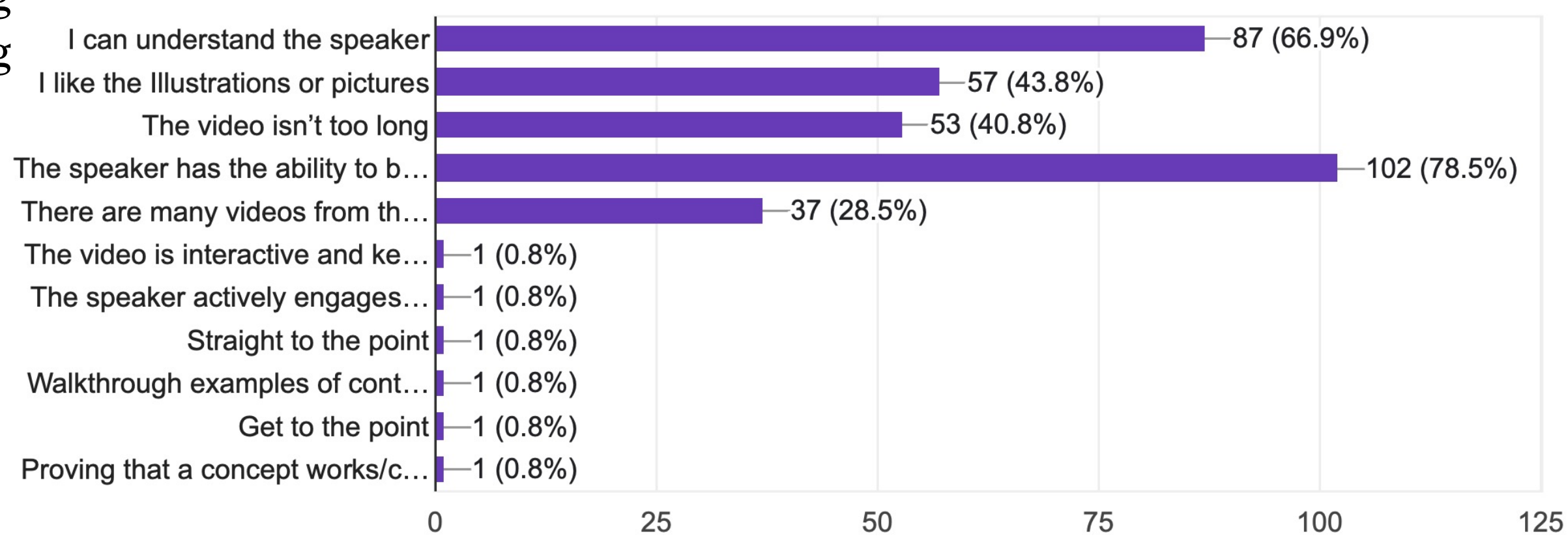


Fig4: 130 random college students were asked "what are the characteristics of a good educational video?" Top Responses: The speaker has the ability to breakdown the concept well, and I can understand the speaker.

CONCLUSIONS

- The research highlights learning gaps among college students. Students are turning to YouTube for educationally relevant videos, but lack confidence in their academic abilities.
- Perfect A aims to provide high-quality, easily digestible videos to supplement student learning . Continued research will uncover more areas for improvement in addressing learning gaps affecting students of all levels.