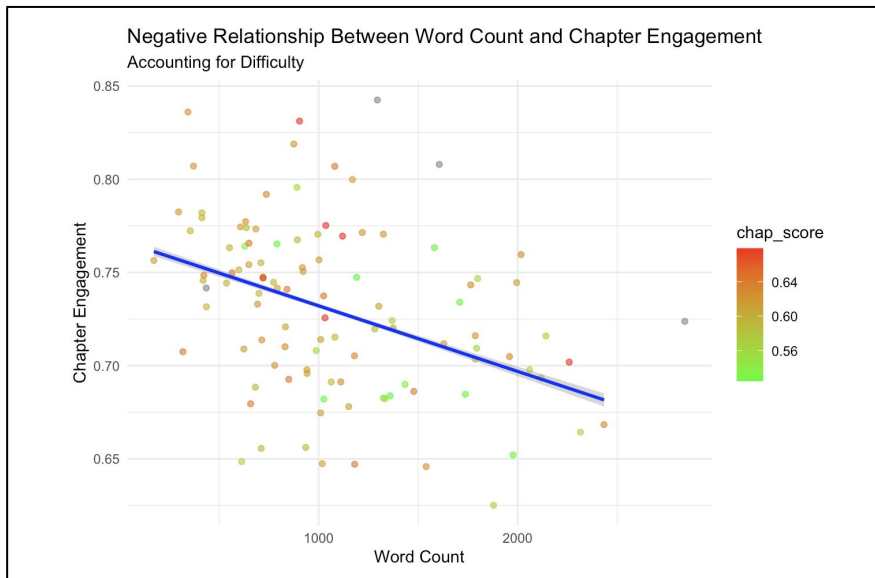


DATAFEST 2024

ANMOL SAPRU, TATE STAPLES, GABRIEL PALEY, KEVIN LEE

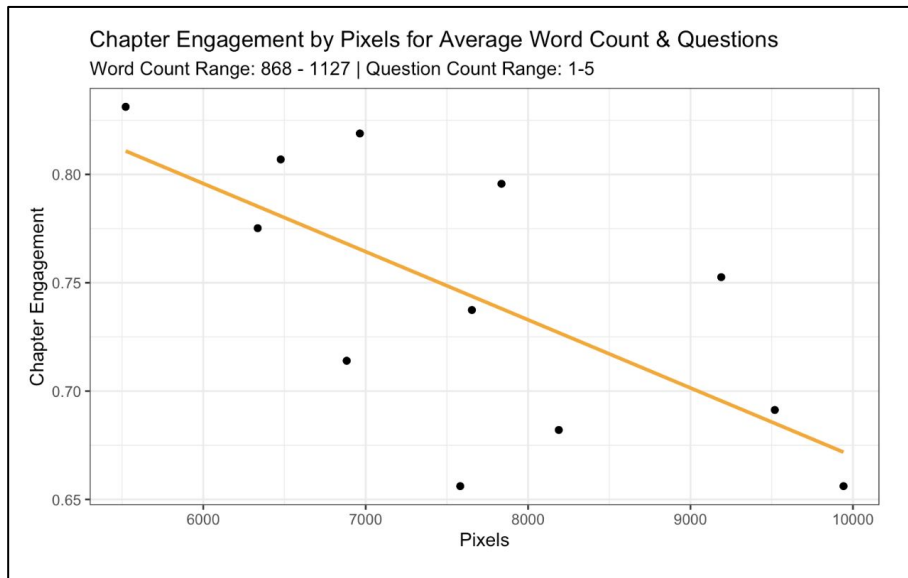


WHAT ELEMENTS OF EACH CHAPTER ARE CORRELATED WITH DISENGAGEMENT?



term <chr>	estimate <dbl>	std.error <dbl>	statistic <dbl>	p.value <dbl>
(Intercept)	6.657321e-01	6.604804e-02	10.079514	6.628258e-17
word_count	-3.312756e-05	7.820523e-06	-4.235977	5.068334e-05
chap_score	1.641143e-01	1.053398e-01	1.557952	1.224040e-01

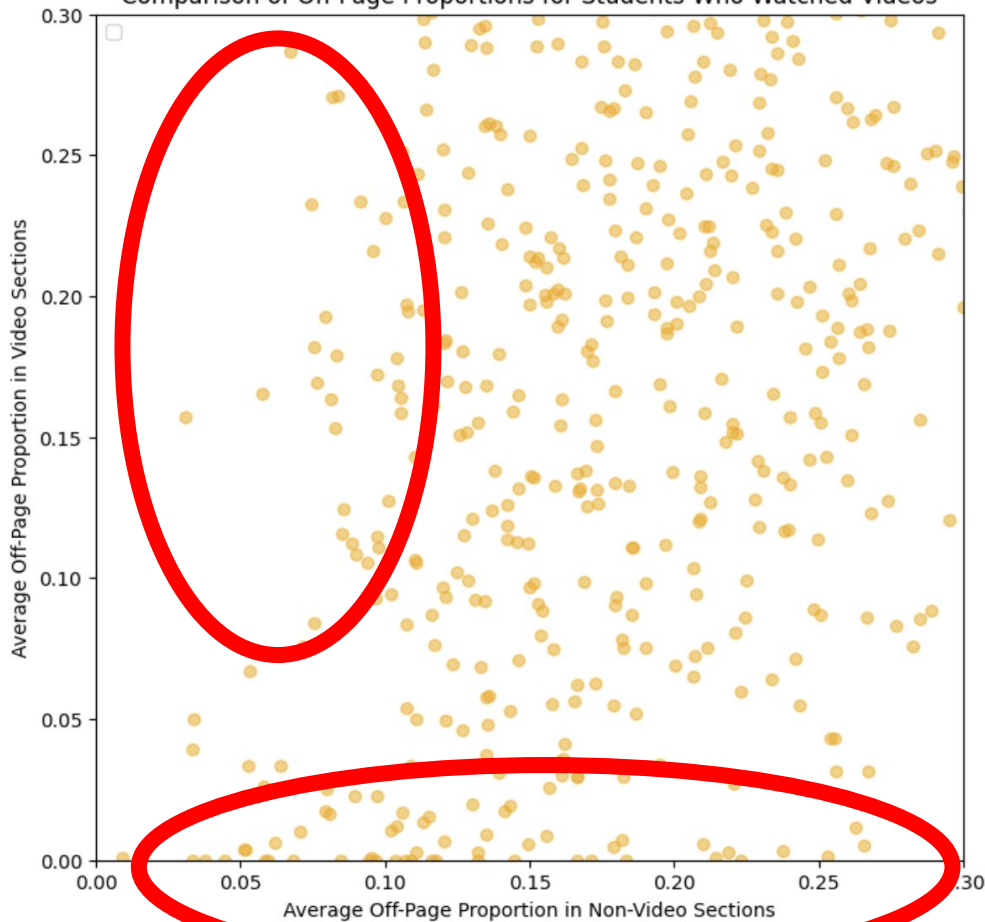
ADJUSTED R² = 18%



term <chr>	estimate <dbl>	std.error <dbl>	statistic <dbl>	p.value <dbl>
(Intercept)	7.375170e-01	6.888222e-02	10.7069278	4.018249e-18
Pixels	-5.681679e-06	2.737274e-06	-2.0756705	4.057030e-02
word_count	2.788675e-06	1.389845e-05	0.2006464	8.413952e-01
question_count	-1.531674e-03	1.502953e-03	-1.0191098	3.106859e-01
chap_score	8.174613e-02	1.070635e-01	0.7635294	4.470008e-01

ADJUSTED R² = 26.2%

Comparison of Off-Page Proportions for Students Who Watched Videos



**FEW PEOPLE WHO
ENGAGED MORE WITH
THE NON-VIDEO
SECTIONS MORE THAN
VIDEOS**

**DENSE CLUSTER OF
PEOPLE WHO PAYED
ATTENTION TO VIDEOS
BUT NOT NOT OTHER
CHAPTERS**

CASE STUDY: 12.1 - FROM HYPOTHESIS TESTING TO CONFIDENCE INTERVALS



THIS IS JUST LONG! WE HAVE A FEW RECOMMENDATIONS...

**NUMBER OF WORDS:
1879 (90TH PERCENTILE)**

**NUMBER OF PIXELS:
17277 (97TH PERCENTILE)**

**NUMBER OF QUESTIONS:
13 (88TH PERCENTILE)**

**CHAPTER ENGAGEMENT:
0.625 (LOWEST)**

- **MERGE THE PRACTICE QUESTIONS INTO A SINGLE, SEPARATE PAGE**
- **USE A SLIDE SYSTEM TO ORGANIZE THE IMAGES/ANIMATIONS AND HELP WITH RELATIONSHIPS BETWEEN IDEAS**
- **DECREASE WORD COUNT AND EXCESS FLUFF**
- **VIDEOS SHOW BENEFIT FOR REMOVING DISENGAGEMENT SOME PEOPLE HAVE IN READING**