

## **[Client] Produced Videos Review of Metadata Provided by [Client]**

### **Copyright Risk Assessment: Video Content Analysis**

[Client] provided [Company] with metadata and links to **34,528** original videos for the purpose of [Company] curating videos to courses and topics in the [Client] taxonomy. In response to an inquiry, [Company] reviewed this metadata and has provided this summary of findings. Please note this is not a legal opinion, merely a review of whether there appear to be clear references to copyrighted material in the metadata provided by [Client]. Examples of metadata that could be considered a reference to another's copyright include publisher names, publication titles, chapter header titles, Q&A problem set titles and/or question numbers.

In nearly all videos reviewed by [Company], the [Client] video content does not specifically name a publisher, title, or edition of a textbook. In certain instances tutors on a video do cite a reference to copyrighted work. Frequently, however, the title of the textbook, along with chapter number and specific problem, and/or problem sets do appear in the metadata - typically embedded as part of the URL link and/or the title of the file. File titles are often depicted on screen and/or are found on [Client] surfaces (in instances wherein metadata is visible to end users on those surfaces).

[Company] conducted a summarized, data driven review of what information is referenced in the metadata that is attached to the ~34k videos referenced above. In performing this review, [Company] identified 3 groupings that we titled "High Risk", "Low Risk"; "Additional". These terms are merely descriptive and are not legal opinions. The definitions are:

- **"High Risk"** videos are those which clearly indicate a textbook title, chapter, problem set or other similar data in the file itself, the file title or the metadata associated with the file.
- **"Low Risk"** videos are believed to have no reference to copyrighted, published materials. They may be derivative of published materials, however this is not obvious.
- **"Additional"** videos are those to which we have limited access, but often contain specific references to titles, chapters and problem sets in the url provided.

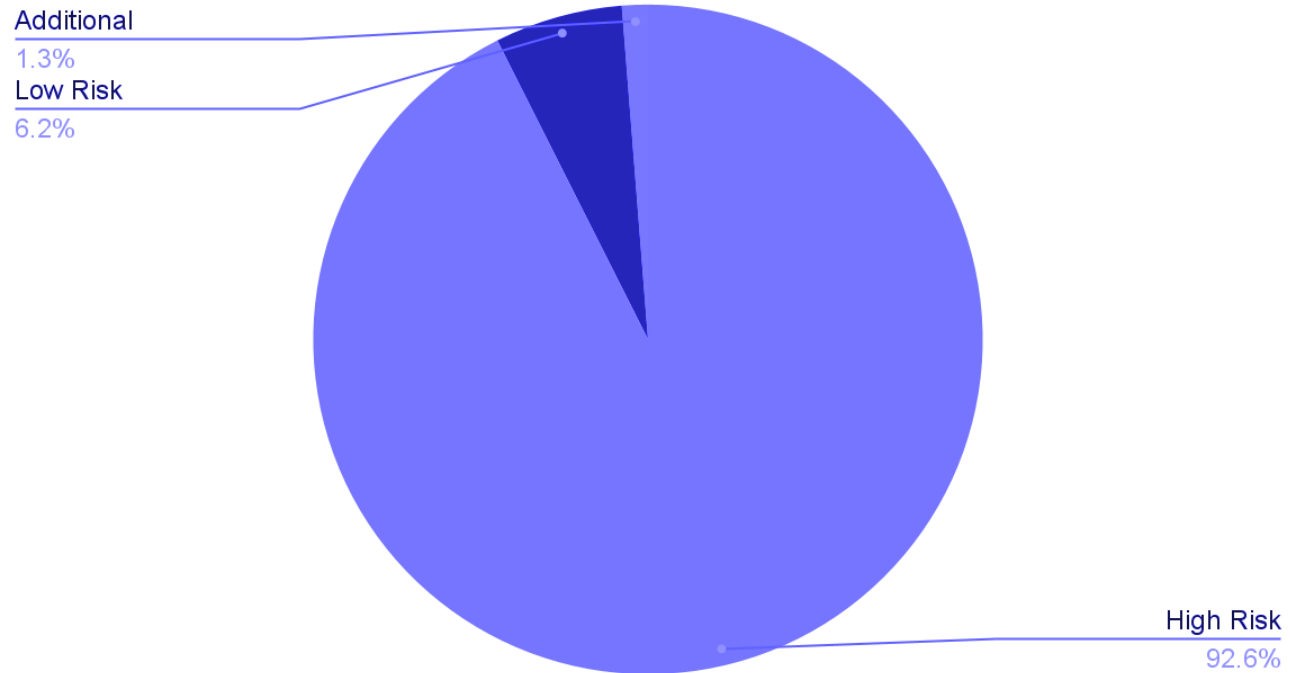
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## **Summary of Findings**

1. **High risk** “video\_type” categories are Preview, Q&A, Textbook Solution, Demo, N/A/blank, and Walkthrough. These account for **32,362** videos of the total.
2. **Low risk** “video\_type” categories are Concept, Definition, Topic, and Tutorial. These account for **2,135** videos of the total.
3. **Additional high risk** videos are those in otherwise low risk categories but hosted by AWS. These appear to have textbook chapter correspondences in the URL. (E.g., [REDACTED])

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**Risk Distribution**



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### **Assessment Method**

We used the original metadata spreadsheet provided by [Client] (cited \*\*\*\*\*.xlsb). Most fields were blank. The columns of metadata from [Client] included:

|                   |                    |                  |
|-------------------|--------------------|------------------|
| video_id          | tutor_subject_name | question_id      |
| video_type        | video_board        | cs_qa_subject_id |
| url in database   | is_active          | creator_email_id |
| title             | answer_id          | source subsource |
| length created_at | solution_id        | tutor_id         |
| modified_at       | problem_id         | tutor_subject_id |

The majority of columns have null values or contain only small samples of data in specific instances. Given these findings, [Company] based its analysis on reviewing file titles and URL links and on reviewing a random sample of videos in the following categories contained in the column "video\_type":

|            |                   |
|------------|-------------------|
| Concept    | Textbook Solution |
| Definition | Topic             |
| Demo       | Tutorial          |
| Preview    | Walkthrough       |
| Q&A        | N/A (blank)       |

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**Summary of Video Type and [Company] “Grouping(s)”**

| <b>Category</b><br>(Column b,<br>“video_type”) | <b>Count</b><br>(Unique Videos) | <b>Risk</b><br>(Not a legal opinion) | <b>Summary</b><br>(Not a legal opinion)                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------|---------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Concept                                        | 48                              | Low                                  | A tutor, on camera in the corner of the screen, walks through a pre-written problem and solution in a slideshow or on [Client] Whiteboard. The problem has no clear source, though it’s implied that they are written by the tutor. These videos appear to help a student master the fundamental concept in order to set them up for success in more difficult textbook problems. Some include drawings or diagrams by the tutor.                                                                           |
| Definition                                     | 1,410                           | Low                                  | <p>Similar to the Concept, a tutor is on camera in the corner of the screen and walks through a problem. Some create their own problems on the spot, while others have a pre-written presentation with text on which they make notes/diagrams as they speak. Many use [Client] Whiteboard. It is implied that the tutor has created the presentation.</p> <p>Some screen shares include the url of the presentation:<br/><a href="https://[Client].com/***/*****/">https:// [Client].com/***/*****/</a></p> |
| Demo                                           | 70                              | High                                 | [Company] was unable to access AWS, however the URL indicates correspondence to a specific textbook chapter.                                                                                                                                                                                                                                                                                                                                                                                                |

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|                   |        |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------|--------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Preview           | 4      | High  | Though similar to the prior types in style, these videos immediately dive into a specific problem in a specific textbook.                                                                                                                                                                                                                                                                                                                                                                        |
| Q&A               | 8,754  | High  | Some of these videos are directly related to a textbook title, chapter, and problem in the title. Others appear to be video responses to students seeking help with a specific problem in their textbook.                                                                                                                                                                                                                                                                                        |
| Textbook Solution | 22,730 | High  | These videos are directly related to a textbook title, chapter, and problem.                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Topic             | 73     | Low   | These videos are distinct from all other styles as they are animated presentations. They function as introductions and overviews of key concepts in a discipline. They are not related to a specific textbook, but specific subject-based key learning objectives.                                                                                                                                                                                                                               |
| Tutorial          | 604    | Low   | A tutor is on camera in the corner of the screen and walks through a problem. Some create their own problems on the spot, while others have a pre-written presentation with text on which they make notes/diagrams as they speak. Many use [Client] Whiteboard. <i>It is heavily implied that the tutor has created the presentation materials.</i><br>*Unable to access the 31 AWS hosted videos, which indicate a chapter/textbook correspondence in the URL and are likely <b>high risk</b> . |
|                   | 31     | High* |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Walkthrough       | 403    | High  | Unable to access the videos for review, as they are hosted by AWS. However, many video titles state which chapter/problem for which the video is a solution. These videos also contain “problem_id” metadata.                                                                                                                                                                                                                                                                                    |
| N/A (blank)       | 401    | High  | These videos typically have a textbook title or chapter present in the metadata.                                                                                                                                                                                                                                                                                                                                                                                                                 |

## [Client] Produced Videos Review of Metadata Provided by [Client]

### Summary of “Low Risk” Group Videos by Subject

|                            |      |
|----------------------------|------|
| Accounting                 | 46   |
| Algebra                    | 20   |
| Anthropology               | 1    |
| Biology                    | 78   |
| Business                   | 2    |
| Calculus                   | 75   |
| Chemistry                  | 38   |
| Computer Science           | 7    |
| Economics                  | 15   |
| Electrical Engineering     | 17   |
| Finance                    | 12   |
| Geometry                   | 13   |
| Literature                 | 18   |
| Math                       | 70   |
| Mechanical Engineering     | 13   |
| Physics                    | 40   |
| Psychology                 | 44   |
| Sociology                  | 41   |
| Statistics and Probability | 30   |
| Trigonometry               | 24   |
| Unknown/No Subject Data    | 1531 |

### Distribution of Low Risk Videos by Subject

