code style standard

If you are teaching at the University of British Columbia, you may also be interested in the tool Threadz which provides visualizations and data from your Canvas discussion forums through a user interface in Canvas. You can learn more about the tool and how to request access in your course from the LTHub Instructor Guide. Threadz was developed by Eastern Washington University.

Canvas Discussion

Data

{course_id}-discussion.csv

This project pulls data via the Canvas API the discussions for the specified Canvas course(s) and exports the results as CSV. The columns exported are:

- 'topic_id',
- 'topic_title',
- · 'topic_message',
- 'topic_author_id',
- 'topic_author_name',
- 'topic_created_at',
- 'topic_posted_at',
- 'response_author_id',
- 'response_author_name',
- 'response_id',
- 'response_parent_id',
- 'response_message',
- · 'response_likes',
- 'response_timestamp'

Where a topic corresponds to a discussion_topic and response refers to all posts and replies to the discussion_topic. If a discussion_topic has no posts or replies then you will see the topic_ columns filled with no corresponding response_ data. A response may have a response_parent_id if it is part of a threaded response (i.e is a reply).

Summary Data

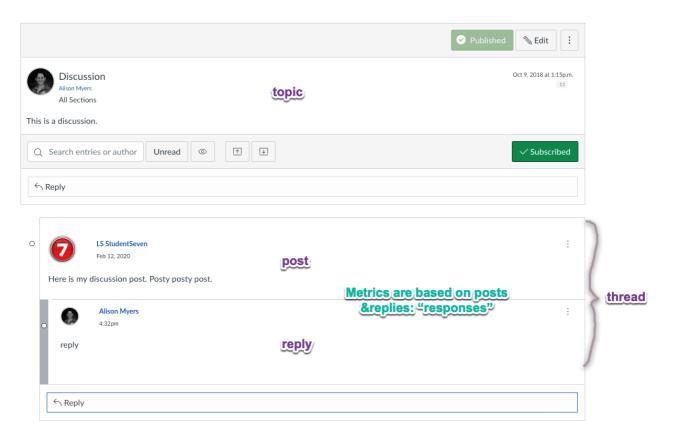
{course_id}-discussion-summary.csv

We have calculated summary metrics for each topic. The csv with the summary information includes the following columns:

- 'topic_id',
- 'topic_title',
- 'topic_author_id',
- 'topic_author_name',
- 'topic_posted_at',

- 'number_of_responses': the total number of posts and replies in the topic
- 'average_responses_per_author': the average posts per author (does not include enrollments with no posts)
- 'median_responses_word_count': the median word count for all posts and replies to the topic
- 'average_days_to_respond_from_posted_at': the average number of days to post from the topic posted_at date. A 'day' is calculated by date, not hours
- 'first_response_timestamp': the timestamp of the first post
- 'average_days_to_respond_from_first_response': the average number of days to post from first topic response. A 'day' is calculated by date, not hours

Where a post is a direct response to a topic, and a reply is a reply to the post. Together the posts and replies are responses.



Additional Explanations

• A 'day' is calculated by date, not hours

For instance, for the topic discussion summary, if the topic was posted_at '2024-01-02 12pm' and there was 1 response at '2024-01-03 4pm', then the average_days_to_post would be 1. If the topic as was posted_at '2024-01-01' and all replies were the same day ('2024-01-01') then the average_days_to_post would be 0.

• does not include enrollments with no posts

The calculations are only based on posts or authors who contribute, not expected posts or number of authors; for instance, in a class of 10 students, if 5 students made 1 post each and 5 students made 0 posts the average_responses_per_author is 1 (mean: 1,1,1,1,1), **not** 0.5 (mean: 1,1,1,1,1,0,0,0,0,0).

Getting Started

These instructions will get you a copy of the project up and running on your local machine for use with your own API tokens and Canvas domains.

Prerequisites

- 1. Install Node 10 or greater.
- 2. Install Git.

Installation and execution of script

- 1. Clone this repo. git clone https://github.com/ubccapico/canvas-discussion.git
- 2. Then cd into the repo. cd canvas-discussion
- 3. Run the installation script. npm install (If you see babel—node: command not found, you've missed this step.)
- 4. Generate Canvas API token and copy it to clipboard
 - See Get Started with the Canvas API for more information.
- 5. Create a env file.
- 6. Add the following: CANVAS_API_TOKEN={YOUR API TOKEN}, CANVAS_API_DOMAIN={YOUR API DOMAIN}, COURSE_IDS={YOUR COURSE ID(s)}. > At UBC the CANVAS_API_DOMAIN is https://ubc.instructure.com/api/v1
 - At another institution it might be something like https://{school}.instructure.com/api/v1

Your .env file should look like

```
CANVAS_API_TOKEN=22322...

CANVAS_API_DOMAIN=https://ubc.instructure.com/api/v1

COURSE_IDS=1111,1112

INCLUDE_MODULE_SUMMARY=false
```

- 7. Run the script. npm start.
- 8. A {course_id}-discussion.csv and a {course_id}-discussion-summary.csv file should be generated with discussion data in the output folder for each provided course_id.

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