

Getting Data from Canvas: Using the Canvas Rubric Report Generator

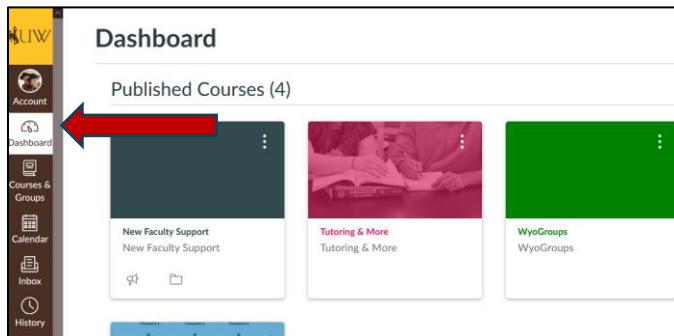
Mark Andrew Perkins, Ph.D.

Introduction

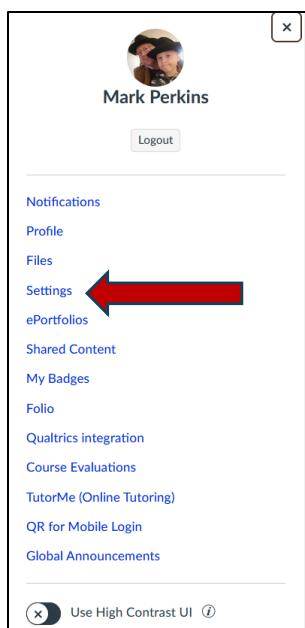
This document provides information for obtaining your data from the Canvas Rubric Application developed by Mark Perkins, Ph.D. The process requires a few steps. First, you will need to make sure Canvas Rubrics are used for the people for whom you want to pull data. Then, you want to pull their API Tokens from Canvas and save them onto a CSV file. Then you will use that CSV file to download their data. This document gives you the steps required.

Part 1: Obtaining an API Token from Canvas for a CSV File

- I. Click on “Account” in the left-hand bar after logging into Canvas

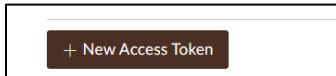


- a. Then click on “settings”



Canvas Rubric Generator

II. Scroll to the bottom of the page and click on “+ New Access Token”



III. Give it a purpose and assign an expiration date and click “Generate Token”.

A screenshot of a modal window titled "New Access Token". The main title is "Generate an Access Token". The text inside says: "Access tokens are what allow third-party applications to access Canvas resources on your behalf. These tokens are normally created automatically for applications as needed, but if you're developing a new or limited project you can just generate the token from here." Below this are two input fields: "Purpose:" containing "Gradebook Data" and "Expires:" containing "Feb 1, 2024" with a calendar icon. At the bottom are two buttons: "Cancel" and "Generate Token", with "Generate Token" being highlighted.

IV. Copy and paste the token. This will be used in R to extract gradebook information. The blacked-out part is what you are to copy. We copy and paste it in an encrypted CSV file in Excel.

A screenshot of a modal window titled "Access Token Details". It contains a paragraph about using tokens for API calls and links to the Canvas Open API. Below this is a "Token:" field which has been redacted with black ink. A note below the field says: "Copy this token down now. Once you leave this page you won't be able to retrieve the full token anymore, you'll have to regenerate it to get a new value." Further down are details: "App: User-Generated", "Purpose: Gradebook Data", "Created: Jan 12 at 10:03am", "Last Used: --", and "Expires: Feb 1 at 12am". At the bottom is a "Regenerate Token" button.

V. Create a CSV file from Excel and generate three columns called “Token”, “URL” and “Institution”

Token	URL	Institution
CANVASTOKEN COPIED HERE	YOUR INSTITUTION'S ADDRESS FOR CANVAS	Institution 1
Another Token	Another Address	Institution 2

- You can enter more than one person's API token on new rows
- You can enter more than one institution's as well
- Save the file and remember where it is. You will use it to tell the app what data to pull.

Part II: Getting Your Rubric Data from the Application

- I. Go to the Streamlit application here: [LINK](#)
- II. Enter the UN and Password assigned to you

The image shows a login interface for a Streamlit application. On the left, there's a sidebar with a 'Login' button. The main area has 'Username' and 'Password' input fields. A yellow callout box on the right says 'Please log in to access the app.'.

- III. Drag and drop or browse your files for the CSV you generated with your API token.

The image shows the home page of the 'Canvas Rubric Report Generator'. It has a title 'Canvas Rubric Report Generator' with a link icon. Below it says 'This Program is the Property of Mark A. Perkins, Ph.D. for demonstration at UCCS'. There's a file upload section with a 'Drag and drop file here' button and a 'Browse files' button. A note below says 'Limit 200MB per file • CSV'.

- a. It will take some time to process. Once it's done, you see several filters and tabs. Navigate the tool and get your data!