

Getting Data from Canvas: Using the Canvas Rubric Report Generator

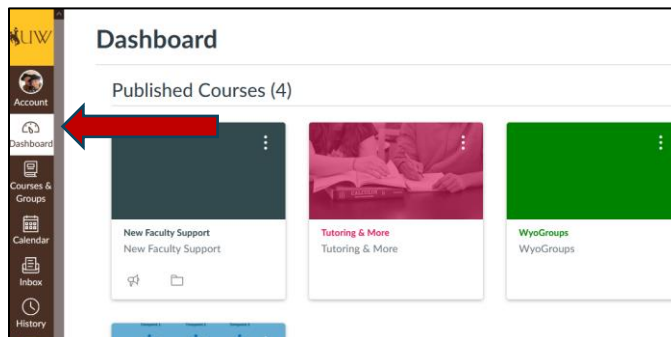
Mark Andrew Perkins, Ph.D.

Introduction

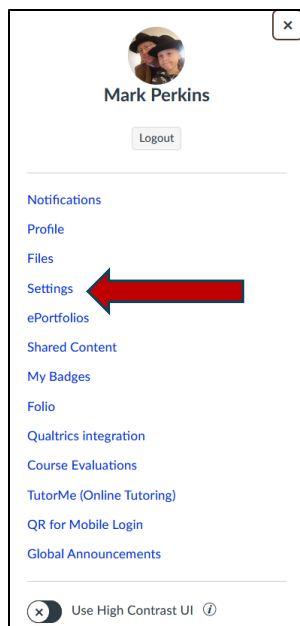
This document provides information for obtaining your data from the Canvas Rubric Application developed by Mark Perkins, Ph.D. The process requires a few steps. First, you will need to make sure Canvas Rubrics are used for the people for whom you want to pull data. Then, you want to pull their API Tokens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

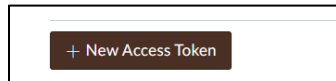
I. Click on “Account” in the left-hand bar after logging into Canvas



a. Then click on “settings”



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 dialog box titled "New Access Token" with a close button (X) in the top right. The main heading is "Generate an Access Token". Below it is explanatory text: "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." There are two input fields: "Purpose:" with the value "Gradebook Data" and "Expires:" with the value "Feb 1, 2024" and a calendar icon. At the bottom are "Cancel" and "Generate Token" buttons.

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 dialog box titled "Access Token Details" with a close button (X) in the top right. It contains explanatory text about access tokens. The "Token:" field shows a long string of characters, with a portion highlighted in black. Below this is a warning: "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." Other fields include "App:" (User-Generated), "Purpose:" (Gradebook Data), "Created:" (Jan 12 at 10:03am), "Last Used:" (--), and "Expires:" (Feb 1 at 12am). A "Regenerate Token" button is at the bottom.

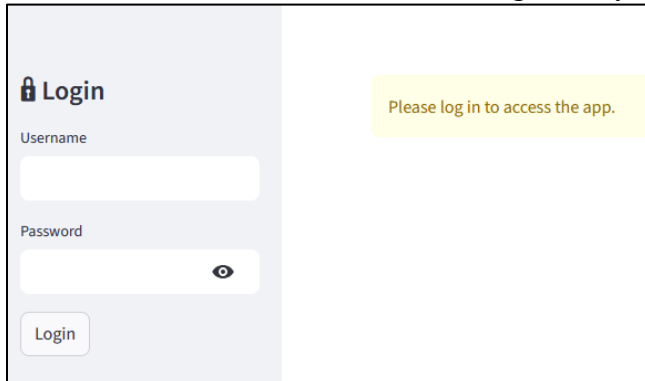
V. Create a CSV file from Excel and generate three columns called “Token”, “URL” and “Institution”

Token	URL	Institution
CANVAS TOKEN 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 login form is titled "Login" with a lock icon. It features two input fields: "Username" and "Password". The "Password" field has a toggle icon (an eye) to the right of the input box. Below the fields is a "Login" button. A yellow message box on the right side of the form states: "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 interface is titled "Canvas Rubric Report Generator" with a GitHub icon. Below the title, it states: "This Program is the Property of Mark A. Perkins, Ph.D. for demonstration at UCCS". Underneath, it says "Upload a CSV API Token and Canvas Web Address". There is a file upload area with a cloud icon and the text "Drag and drop file here" and "Limit 200MB per file • CSV". To the right of this area is a "Browse files" button.

- 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!