Google Doc /Canvas API: Course Data Import

Introduction

The following document will explain and guide you through the use of a shared document created in Google Drive that is tied to Canvas. Canvas data can be added to a Google doc using the Canvas API. To access your course you will need to create what is called a Canvas Token. This token is used to authorize access to your course data. The Google spreadsheet is scripted to search and enter information about the enrollment, activity, and assignments from a Canvas course.

Table of Contents

Contact

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Getting a Canvas Token

To create your Canvas token:

Step 1: Log into Canvas

Step 2: Go to your account settings

Step 3: Scroll to the bottom of the page, find the blue "New Access Token" button

These are the third-party applications you have authorized to access the Canvas site on your behalf:

App	Purpose	Dates		
User-Generated	API	Expires: Mar 29 at 5pm Last Used: Mar 25 at 10:03am	details	🗑

➕ New Access Token

Step 4: Enter a name for your token in the 'Purpose' field and a date for the token to expire. You can name the token whatever you like; an example might be 'CanvasAPI'. You can leave the date blank.

New Access Token ⊗

Generate an Access Token

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.

Purpose: [_____]

Expires: [_____] 📅
Sat Mar 30, 2013

Cancel   Generate Token

Step 5: You will need to copy the Token from this screen. Once you leave this page you will not be able to see the full token again. If you forget or loose your token you will need to regenerate it to get a new one.

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Access Token Details

Access tokens can be used to allow other applications to make API calls on your behalf. You can also generate access tokens and use the Canvas Open API to come up with your own integrations.

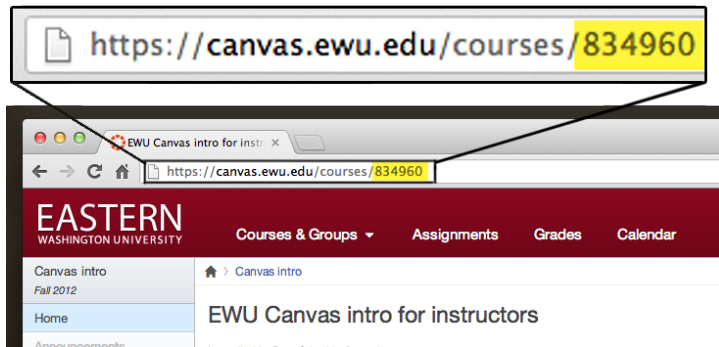|	
Token:	10~fG2PseIWFJYwf3MdzyGvBIv5qGUoF0ia7BPmwR1YeiHtT78cxLFLbXUS8Q2z2uzM
	Copy this token down now. Once you leave this page you won't be able to retrieve the full token anymore, you'll have to regenerate it to get a new value.
App:	User-Generated
Purpose:	WacugAPI
Created:	Mar 25 at 11:05am
Last Used:	--
Expires:	Mar 30 at 12am

Regenerate Token

Finding your Course ID

The course ID for your class can be found in your browser URL filed. The course ID for the below class is: 834960.

Saving your Google Spreadsheet

Once you have opened the shared Google document, you will need to create and save your own copy. The shared document is read only, meaning you will not be able to edit or import data.

Step 1: First step is simply to log into your Google account.

Step 2: Go to the following URL. This is a shorten URL for the shared Google document.
> http://bit.ly/WaCGapi

Step 3: From the top navigation menu, click 'File', then from the drop down list select 'Make a Copy'. Rename the document to a title of your choice. This document will now show in your list of available Google document.

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Using your Google Spreadsheet

Once you have your own version of the Google doc, you will be able to edit and customize your Canvas data request by modifying the Token Key, Course Number, and User Number

Step 1: Enter your Canvas Token into the provided cells.

Step 2: Enter your Canvas Course ID into the provided cells.

Step 3: With the tab menu Canvas-> Import Data, import your data into the spreadsheet worksheets.

Step 4: At the bottom of the spreadsheet are several worksheet tabs. The imported data has been entered into the enrollments, activity, assignment tabs.

Data Key – Document Tabs

Worksheet Tabs

credentials
> This tab is the 'home page' of the document. Enter your token and course id number. This tab will also show you the last time the report was run and a list of all the dates the data was imported.

arrKeys
> This is a currently unused tab. The intent of this tab is to help make the selection of the desired data easier.

graphs
> This is another unused tab. The intent of this tab will be the place where charts will be added from the imported data.

enrollments
This tab pulls all the enrollment data for a course from Canvas. The fields for this worksheet include:
> ***timestamp:*** the time/date of when the data was imported
> ***json:*** the raw json file with all the content provided by Canvas
> ***courseid:*** the course number
> ***user.name:*** the name of the students, teacher assistants, and instructors in the course.
> ***user_id:*** the id that Canvas has assigned the user
> ***grades.current_score:*** the current score for the student. 'retrieval error' is returned for users without any grades (teachers included).
> ***grades.final_score:*** the final score for the student. 'retrieval error' is returned for users without any grades (teachers included).

activity
This tab pulls all the activity data for a course from Canvas. The fields for this worksheet include:
> ***timestamp:*** the time/date of when the data was imported
> ***json:*** the raw json file with all the content provided by Canvas
> ***courseid:*** the course number
> ***name:*** the name of the students, teacher assistants, and instructors in the course.
> ***id:*** the id that Canvas has assigned the user
> ***last_login:*** this is the date/time of the last time this user logged into Canvas (note: this is not necessarily the last time the user logged into this course, only into Canvas)

assignments

This tab pulls all the course assignment data for a course from Canvas. The fields for this worksheet include:

timestamp: the time/date of when the data was imported

json: the raw json file with all the content provided by Canvas

courseid: the course number

assignment_id: the assignment id Canvas provided

title: the title of assignment

points_possible: the total amounts of points possible for assignment

min_score: the minimum amount of points given in the course for this assignment

median: the median for this assignment

max_score: the maximum amount of points given in the course for this assignment

tardiness_breakdown.missing: the number of missing assignments

tardiness_breakdown.late: the number of late assignments

tardiness_breakdown.on_time: the number of on time assignments