

Learning to Love the API

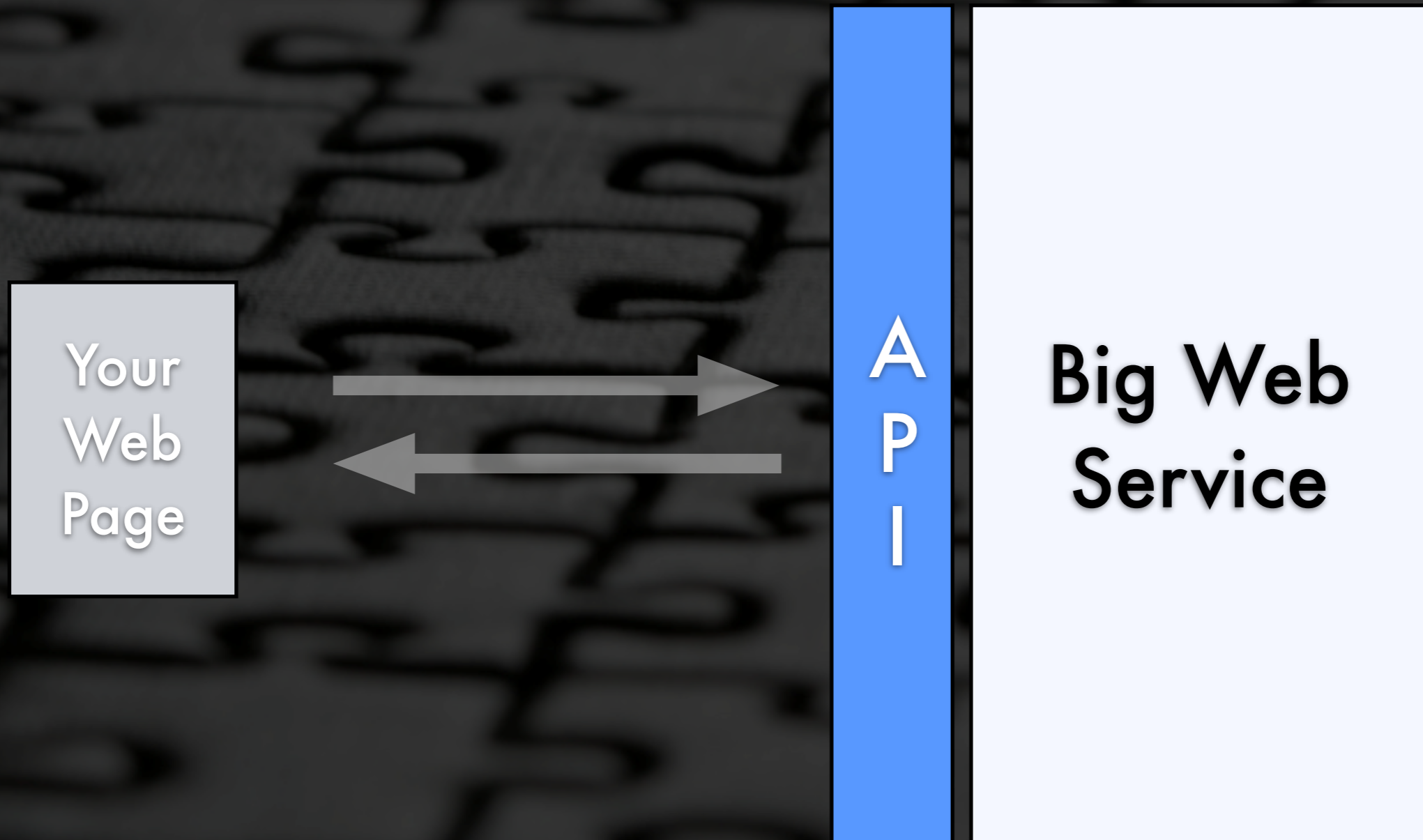
Gabriel Nagmay - Portland Community College

gabriel.nagmay.com
gabriel@nagmay.com
[@nagmay](#)

Overview

- APIs at PCC
- Maps
- Photos
- Video
- Analytics
- Social Media
- Looking Ahead

Application Programming Interface





PORTLAND COMMUNITY COLLEGE

PCC

PCC: By the numbers

3

7

100

3,000

100,000

PORTLAND COMMUNITY COLLEGE

PCC: By the numbers

5

PORTLAND COMMUNITY COLLEGE

PCC: Considerations

Home Grown App

- Start from Scratch
- Our Bandwidth
- Our Uptime
- Full Control

API Based

- Rapid Prototyping
- Yahoo's Bandwidth
- Twitter's Uptime
- Partial Control



Maps

Maps: Displaying

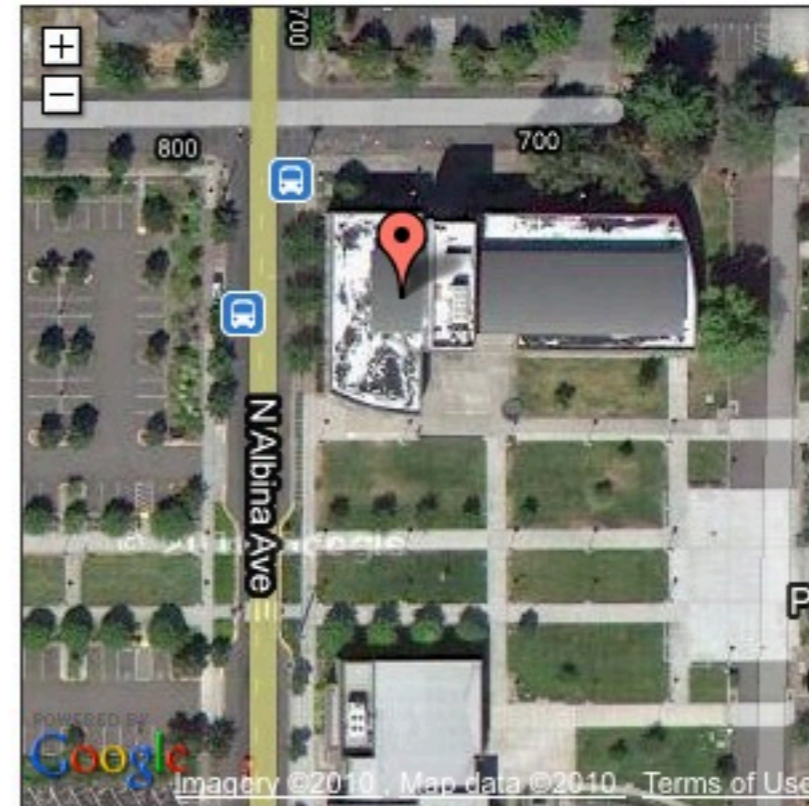
The Cascade Gallery is an educational showcase committed to exhibiting work of high artistic quality. Our versatile gallery space is approximately 650 square feet situated in the center of the urban campus. We are located in Terrell Hall, Room 102 of the Cascade Campus of Portland Community College at 705 N. Killingsworth and Albina, Portland, OR, adjacent to the northern campus parking lot.

Viewing Hours

The Cascade Gallery is open Monday through Friday 9am to 5pm.

Contact

For inquiries or more information contact the Gallery Director: [Sam Morgan](mailto:Sam.Morgan@pcc.edu), or cascade.gallery@pcc.edu.

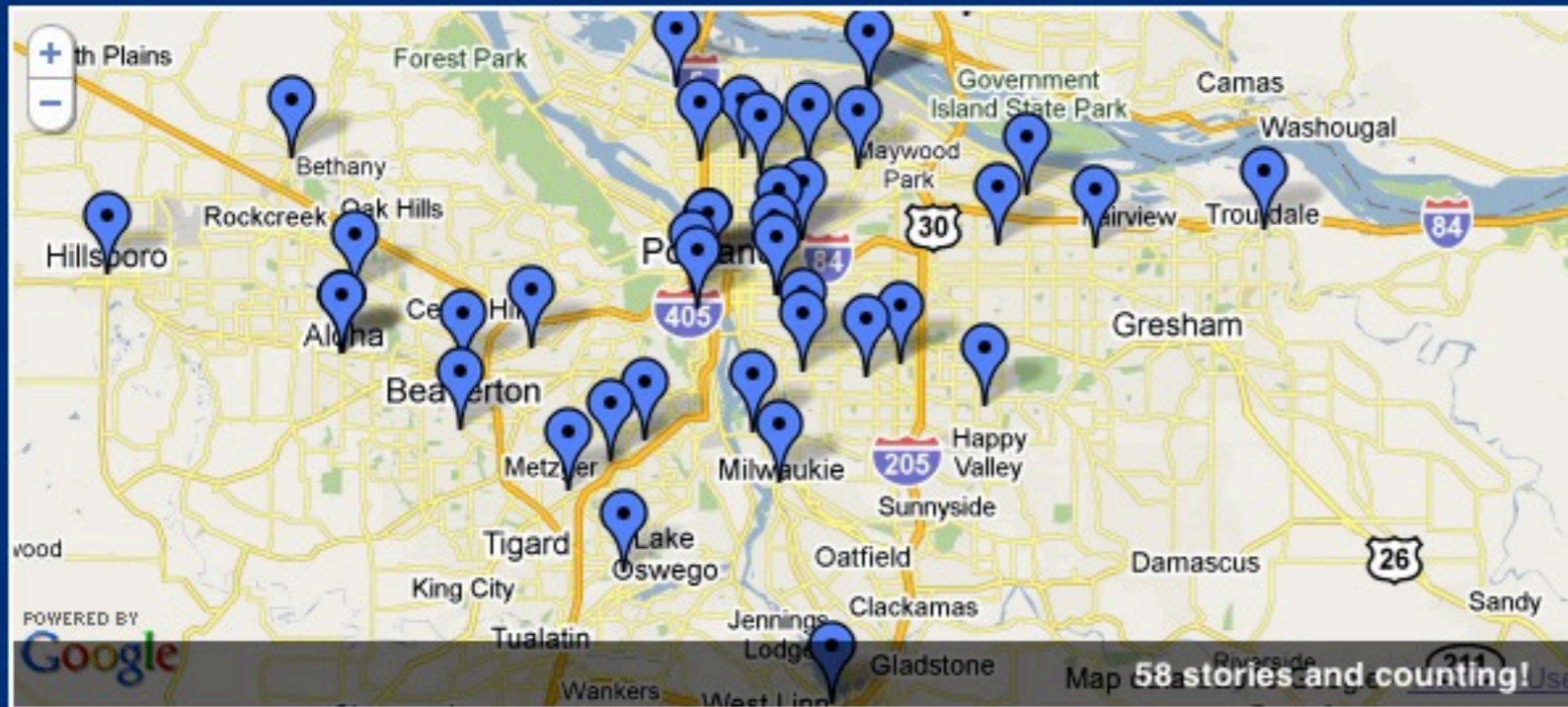


```
<script type="text/javascript" src="http://maps.google.com/maps/api/js?sensor=false"></script>
<script type="text/javascript">
  $(document).ready(function(){
    var myLatLng = new google.maps.LatLng(-25.363882, 131.044922);
    var myOptions = { zoom: 18, center: myLatLng, mapTypeId: google.maps.MapTypeId.ROADMAP };
    var map = new google.maps.Map(document.getElementById("map_canvas"), myOptions);
    var marker = new google.maps.Marker({ position: myLatLng, map: map, title:"Hello World!"});
  });
</script>
```

...

```
<body>
  <div id="map_canvas"></div>
```


Maps: Even Better



SHARE YOUR STORY!

To prepare for PCC's upcoming 50th anniversary, we're looking for stories from students, alumni, parents, staff, business owners, and community members – anyone who has been positively affected by Portland Community College.

ADD YOUR MARK TO THE MAP

It only takes a moment to share your story:

Your Location:

Tell us your

```
<?php
$locationArray = array();
query_posts(array('post_type'=>'map', 'showposts'=>50, 'post_status' => 'publish', 'meta_key'=>'location-lat', 'orderby'=>'location-lat', 'order'=>'DESC'));
while (have_posts()) : the_post();
    $id = $post->ID;
    $excerpt = get_the_excerpt();
    $lat = get_post_meta($id, 'location-lat', true);
    $lng = get_post_meta($id, 'location-lng', true);
    $user = get_post_meta($id, 'user-name', true);

    // set up location array
    array_push($locationArray, "\n[markerZ, $lat, $lng, 'mark-$id', '$user<br />$excerpt <a href=\"".get_permalink()."\"><br />Read more &raquo;&#39;");
    $markerZ = $markerZ+1;
endwhile;
echo implode(", ", $locationArray);
?>
```


Maps: Geocoding

ADD YOUR MARK TO THE MAP

6330 NE Emerson Portland Portland, OR (US)

I am a current student

Here is how PCC has positively affected my life...

My Email (required, but will not be posted)

Submit my story!

(45.561124, -122.597661)

```
/* get location */
geocoder = new google.maps.Geocoder();
...
// get latlong
geocoder.geocode( { 'address': address }, function(results, status) {
    var latlng = results[0].geometry.location;
    ...
// get address from latlng
geocoder.geocode( { 'latLng': latlng }, function(results, status) {
    var locationText = results[0].formatted_address;
```


Maps: Maintaining



```
var myLayer = new google.maps.KmlLayer('myfile.kml');  
myLayer.setMap(map);
```

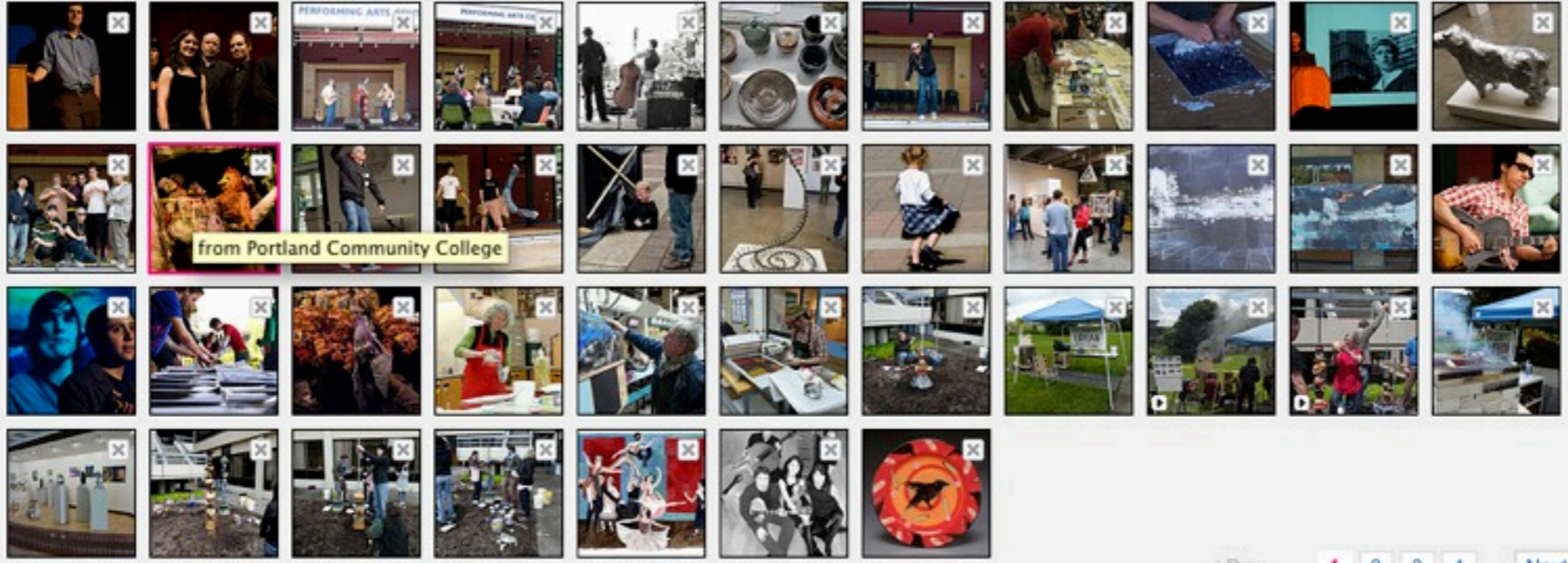



Photos

Photos: Maintaining

Batch Organize Sets Print & Create Groups Map Group: Art Beat at Portland... Your photostream flickr


Art Beat at Portland Community Colleg... 151 items Open group page show only my stuff



< Prev 1 2 3 4 Next >

All your content SEARCH More options Jump to date

11 items :: 0 selected | Select all Need help?

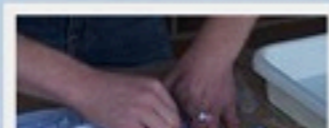
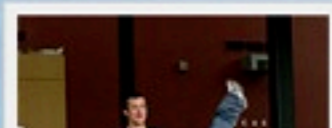
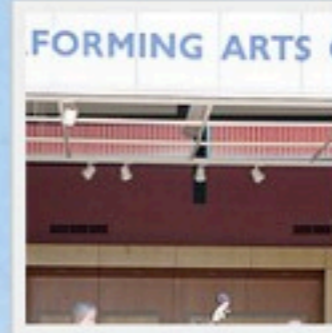


Photos: Displaying

Most recent pictures

The following photos are from the [Art Beat group pool on Flickr](#). Join the group and submit your photos from Art Beat to the pool!

Showing 24 of 142 photos in the pool.



```
<script type="text/javascript" src="/_source/scripts/flickr.js"></script>
...
<script type="text/javascript">
$("#photo-pool").flickr({ api_key: "xxx",
    type: 'search',
    group_id: '1115341@N23',
    sort: 'date-posted-desc',
    attr: 'rel="lightbox[album]"',
    thumb_size: 'm',
    per_page: 24,
    callback: liteboxCallback});
```


Photos: Even Better

metrofiets
CARGO BIKES

Who We Are • **Bikes** • Bike Fun • In The Media • Ordering

the hopworks beer bike • perpetua • oregon manifest '09 • in progress

The Hopworks Beer Bike

Photo credit: Curtis "Corky" Miller www.corkymiller.com/ Thank you Corky!



Embed Flickr Set

Use this to include a set from flickr below the page content (if there is any). To find the set ID, simply look at the URL:
<http://www.flickr.com/photos/31530356@N08/sets/72157622823114983/> (ID is that green part)

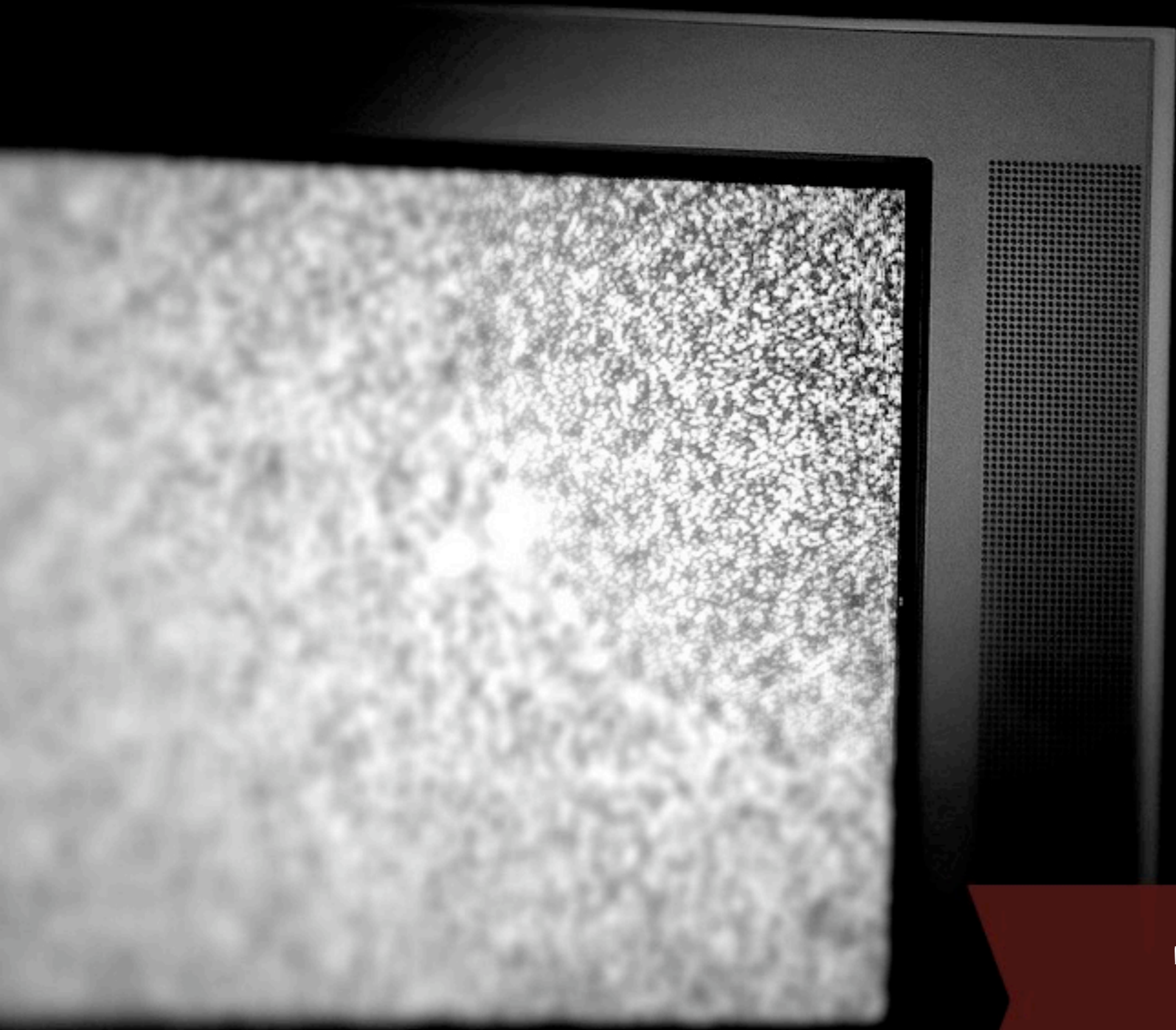
Display set as:

Gallery




Flickr set ID:

72157622765706150



Video

Video: Player API

You Tube 

Version 1.1 - [Notes, Bugs and Feature Requests](#)
This site is a mashup that uses the [YouTube API](#)
It was not created or maintained by [YouTube](#)

Ready to caption video: [IR68W56DCBU](#)

Ask A Ninja - Question 16 "How To Kill A Ninja"



0:06 / 2:44

she is ninja too!

Start Time	Caption Text
00:00:00.00	
00:00:02.00	Well I am ninja
00:00:04.00	he is ninja

Ready to export your captions?

Video: Data API

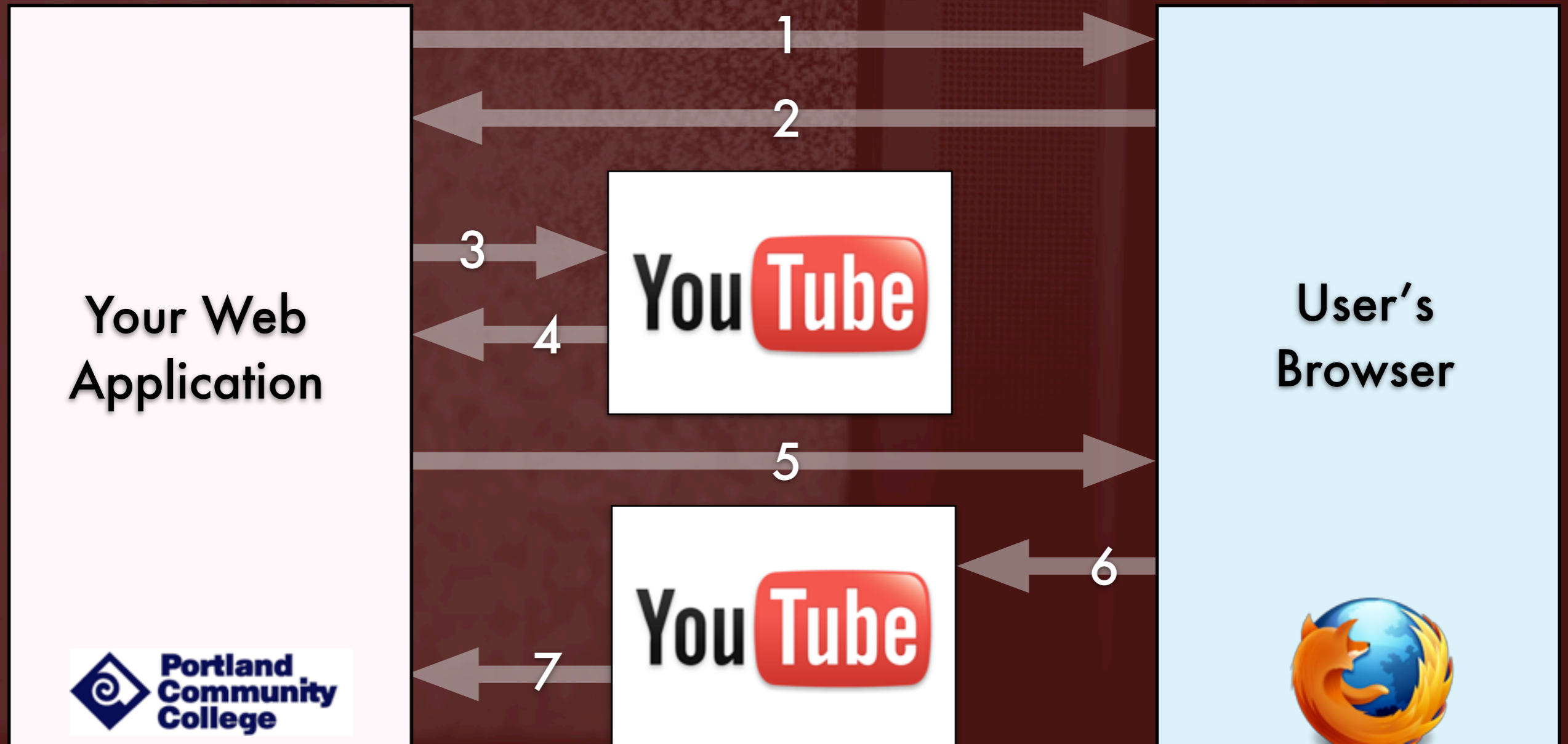
The screenshot shows the YouTube channel page for Portland Community College. The main video player displays a video titled "RIGHT NOW YOU ARE MAKING OPPORTUNITY HAPPEN" with a play button overlay. Below the video player, there are options for "Info", "Favorite", "Share", "Playlists", and "Flag". The video description reads: "PCC Foundation - Right Now" and "From: PCCvideos | May 11, 2010 | 437 views". It also includes a link to the PCC Foundation website and a "View comments, related videos, and more" button. To the right of the main video player, there is a search bar and a list of related videos with their titles, view counts, and upload times. The channel name "Portland Community College" and "PCCvideos's Channel" are visible at the top of the page.

The thumbnail for the video "MATH 20 Lesson 47" features a dark blue background with white text. The title "MATH 20" is at the top, followed by "Lesson 47". Below that, it says "ALGEBRA: What is Percent?" with a play button icon. At the bottom, it identifies the "Instructor: Bob Finnell".

The thumbnail for the video "What is your GRAD Plan?" has a bright yellow background. It features the text "What is your GRAD Plan?" and "Check it out in" with a play button icon. On the right side, there is a cartoon illustration of a man wearing a graduation cap and glasses. The Portland Community College logo is in the bottom left corner.

The thumbnail for the video shows a man in a dark jacket playing a piano. A play button icon is overlaid on the center of the image.

Video: Data API



Video: Data API

Application Security
Web Team | webteam@pcc.edu

MyPCC User Name:	<input type="text" value="gabriel.nagmay"/>
MyPCC Password:	<input type="password"/>



You have access to the following application administration pages:

- [Define Alert](#)
- [Define Community Education Alert](#)
- [Keyword Management](#)
- [PCC/WebEasy Academics/Services Account Creation](#)
- [PCC/WebEasy Academics/Services Account List Info](#)
- [PCC/WebEasy Staff Account Creation](#)
- [Site Redirects](#)
- [Video Upload](#)

Video: Data API

What can be uploaded:

- Instructional videos created by consenting Portland Community College instructors.
- Promotional videos created by the Video Production, Media Services, or Public Affairs Department.
- Instructional or promotional videos created for the college that we have written consent to redistribute.

Important considerations:

- Uploading copyrighted, or inappropriate material could cause Youtube to revoke our educational partnership! Please contact [Instruction Support](#) if you have an instructional video that may not be appropriate for YouTube. They may be able to help you distribute the video.
- The video will be tagged with your login ID to help us track who is uploading videos.
- All videos to be available from the public website (www.pcc.edu) will need to have closed captions and be vetted by public affairs.
- All uploaded videos will be publicly available to the world. Commenting and video responses are turned on by default.
- Please [contact the web team](#) for playlists, captions, video removal, title and description changes.
- Before uploading - learn about the recommended [resolution and formats](#) for YouTube videos.

What can not be uploaded:

- Videos that PCC does not have consent to redistribute.
- Videos that contain any copyrighted images or music.
- Videos that contain inappropriate materials. This includes pornography, gratuitous violence or hate speech. Refer to the [YouTube Community Guidelines](#) for further details.

Upload a Video - Step 1 of 2: Enter video information

Video Title: *

For instructional videos: Course Number - Video Title (CS 161 - The While Loop)

Description: *

Links can be included in the description by using the full url. For example: <http://www.pcc.edu/>

Keywords:

For example: Math Algebra Calculus

Clear All

Go to Step 2

Video: Data API

Upload a Video - Step 2 of 2: Attach a video file

Select the video file (mp4, mpv, mov, avi, etc...) to upload and hit submit.

Depending on the size of the video, it may take several minutes to complete the upload. Do not leave the page until the upload is complete

Video File:*

/Users/gabrielmcgovern/Desktop/GRAD

Browse...

Maximum size: 2GB



Uploading ... Please wait.



Successfully uploaded! Thank you for the submission.

The video file will be processed in several minutes. The link will be <http://www.youtube.com/watch?v=q2cYA1C7bC4>.

Need to upload another?

Go back to the form and [upload another video](#).

Video: Data API

The image displays a video player interface with two screenshots of a D2L LMS (Learning Management System) interface. The left screenshot shows the 'Video Information' form, and the right screenshot shows the 'New Grade Item' dialog box.

Video Information Form:

- Save Changes** or **cancel**
- Video Information** (dropdown menu)
- Title:** D2L Faculty - Create Discussion
- Description:** D2L Faculty - Create Discussion
- Tags:** tutorial software jjohnsto
- Category:** Education

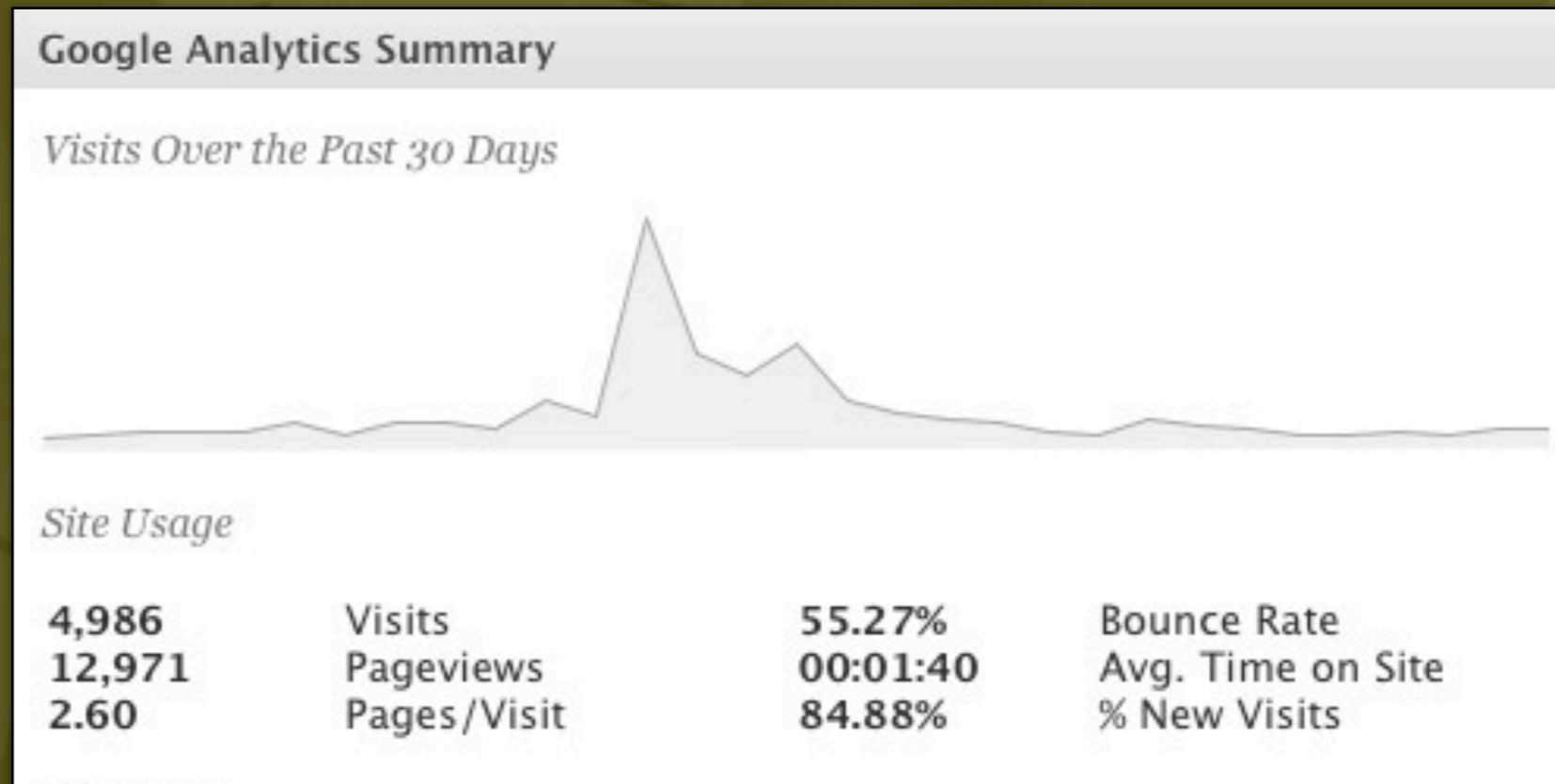
New Grade Item Dialog Box:

- Name:** Special Discussion 41
- Short Name:** spec 1
- Category:** Item
- Grading:**
 - Max Points:** 10 (highlighted in yellow)
 - Can Exceed:**
 - Bonus:**
 - Include from final Grade Calculation:**
 - Grade Scheme:** (Percentage)
- Restrictions:**
 - Visibility:** always visible
 - Hide this grade item
 - Grade item is visible for a specific data range
 - Max Start Date:** January 1, 2012
 - Max End Date:** [empty]



Analytics

Analytics: Displaying



Analytics: Top Stories

More Top Stories

Most Viewed:

Take the Blue Train
Acclaimed author Sherman Alexie to talk at ...
Decemberists, Lemony Snicket's artist com...
Financial Aid Day designed to help student...
Survivor of war, discrimination, assimilation ...
Q & A: Sweden's Andreas Correa is getting...

By location:

Cascade, Rock Creek,
Sylvania, CLIMB,
Hillsboro, Newberg
Portland Metro,
Southeast, Willow
Creek, Downtown

Or, date:

October 2010 (11)
September 2010 (36)
August 2010 (17)
July 2010 (14)
June 2010 (22)
View all ... (4042)

Recent News

[BPA Recruitment Fair at Cascade on Oct. 7](#)

Wednesday, October 6th, 2010 | Edit



```
require_once( '_source/includes/gapi.class.php' );  
$ga = new gapi( $ga_email, $ga_password );  
$ga->requestReportData( $ga_profile_id, array( 'pageTitle', 'pagePath' ), array( 'pageviews' ), array( '-pagev
```


Analytics: Prediction

Search PCC.edu

Search for pages and information on the www.pcc.edu website.

Search Website

[Search Tips](#)

Ask the Panther

Find answers in our automated question/answer system.

Ask the Panther

Search Staff Directory

Find a staff or faculty member by entering any part of their name, department, or phone number.

Find Staff

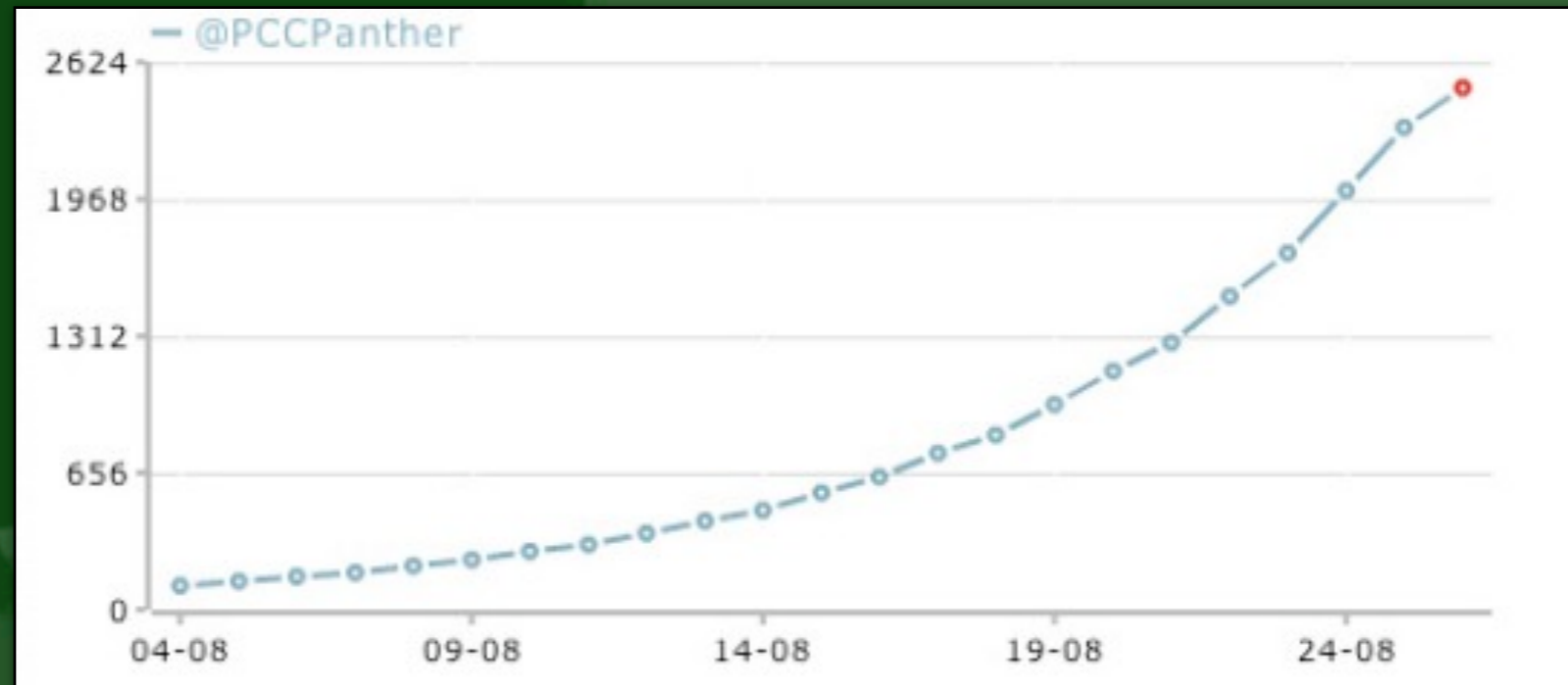
Top 25 Searches

aspcc **blackboard**
bookstore business office
campus map cna employment
financial aid ged GED jobs
library map nursing online
classes parking parking permit
placement test scholarships
shuttle shuttle bus shuttle
schedule transcript transcripts
tuition



Social Media

Social Media: Friends & Enemies



```
curl -u username:password -d "" http://twitter.com/friendships/create/30664308.xml
```

Social Media: Friends & Enemies

twitter

Home Profile Find People Settings Help Sign out

What are you doing? 140

Latest: meow, overflow room overflowing. inservice beamed over the intertubes <http://bit.ly/9rbOA> 2 days ago update

Account Suspended
This account is currently suspended and is being investigated due to strange activity. If we have suspended your account mistakenly, please let us know. See [Suspended Accounts](#) for more information.

Home

PCCPanther meow, overflow room overflowing. inservice beamed over the intertubes <http://bit.ly/9rbOA>
10:04 AM Sep 14th from web

PCCPanther RODAR! I'm off to inservice fer us staff and facultah. but they'll need a "outservice" to pull me away from gobblin up da coffee and donuts.
7:50 AM Sep 14th from web

PCCPanther mrareoooo! My next two videoz are dun! They are really kewl. Will appear on Comcast Ch. 27 in da Portland area or at <http://www.pcc.edu/>
2:49 PM Sep 11th from web

PCCPanther
0 following 0 followers 50 tweets

Vid.ly
n. an easy way to share videos on Twitter.

Home

@PCCPanther

Direct Messages 2,174

Favorites

Search Q

Trending Topics ⌵

Happy Birthday Nick

#SelenaOnUstream

Kanye West

Zé Mayer

Glee

#BonesSeason5

Jay-Z

Social Media: More Ethical

TwitCategory Plugin Options

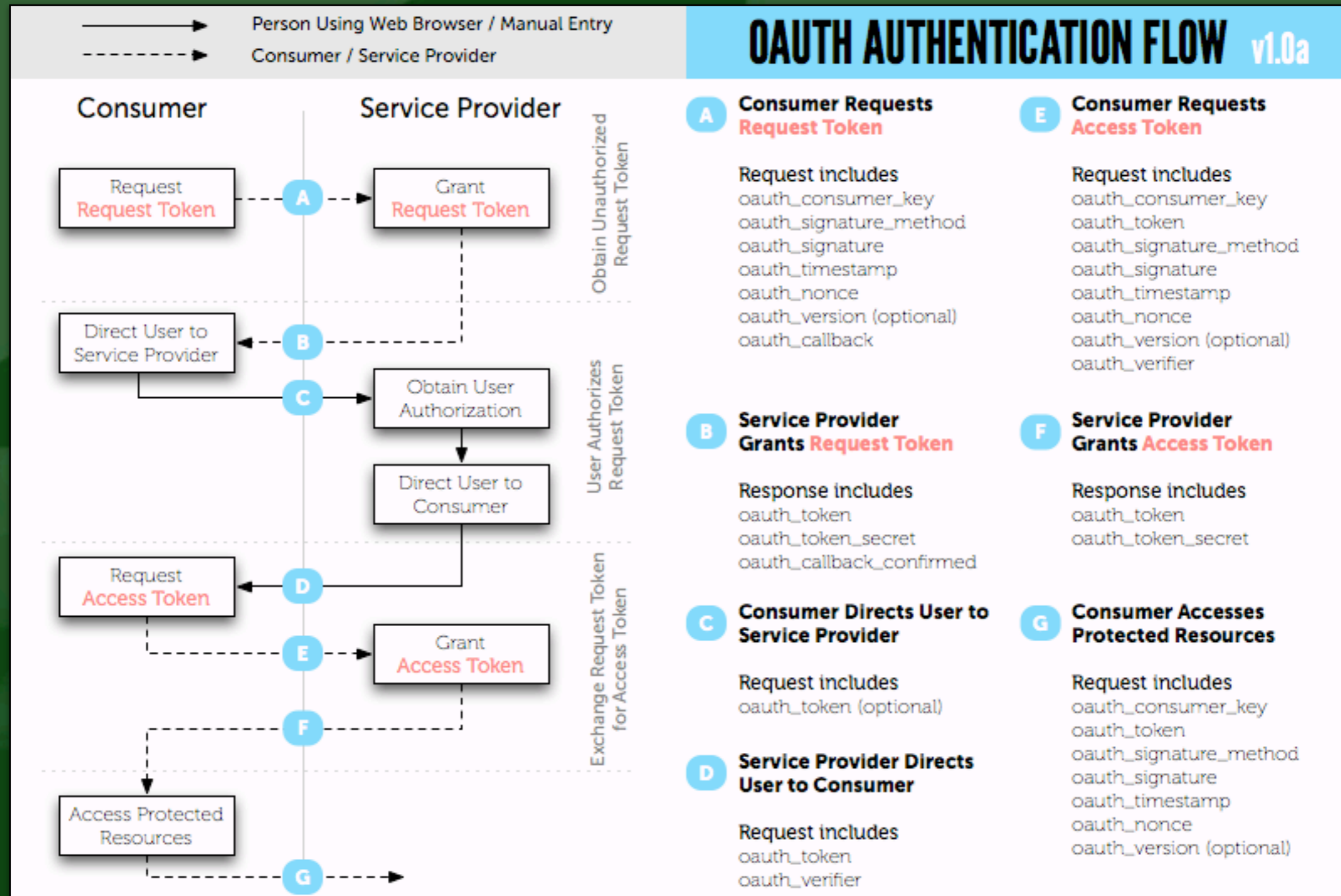
Twitter Username:

Twitter Password:

Only Tweet From:

Format the Message:

Social Media: OAuth





Looking Forward

Looking Forward: YQL

YDN / [Yahoo! Query Language](#) / [Documentation](#) / [Console](#)

Your YQL Statement [permalink](#) [Create Query Alias](#)

```
select * from maps.map where zip="94085"
```

XML JSON Diagnostics

FORMATTED VIEW TREE VIEW Wrap Text

```
<?xml version="1.0" encoding="UTF-8"?>
<query xmlns:yahoo="http://www.yahooapis.com/v1/base.rng"
  yahoo:count="1" yahoo:created="2010-10-07T17:51:39Z" yahoo:lang="en-US">
  <results>
    <Result xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">http://gws.maps.yah
  </results>
</query>
```

The REST query [How do I use this?](#) [hide](#)

```
http://query.yahooapis.com/v1/public/yql?q=select%20*%20from%20maps.map%20where%20zip%3D%2294085%22&env=store%3A%2F%2Fdatatables.org%2Falltableswithkeys
```

▶ Query Aliases
▶ Recent Queries
▶ Example Queries
▼ Data Tables (924)
[Hide Community Tables](#) [What's this?](#)

▶ social
▶ amazon
▶ amee
▶ answers
▶ arxiv
▶ auth
▶ aws
▶ basecamp
▶ bbc
▶ bible
▶ bit
▶ bizrate

Thanks

gabriel.nagmay.com

The source code and more.

The following (cc) Flickr images were used in this presentation:

- Puzzle: <http://www.flickr.com/photos/intvgene/370973576/370973576/>
- Globe: <http://www.flickr.com/photos/shelbychicago/3650237678/>
- Camera: <http://www.flickr.com/photos/schtumple/4788258983/>
- Television: <http://www.flickr.com/photos/53966621@N05/5021889093/>
- Measure Tape: <http://www.flickr.com/photos/krawcowicz/4153762400/>
- Bird: <http://www.flickr.com/photos/romeo66/4237046092/>
- Road: <http://www.flickr.com/photos/unanoslucror/5004428770/>