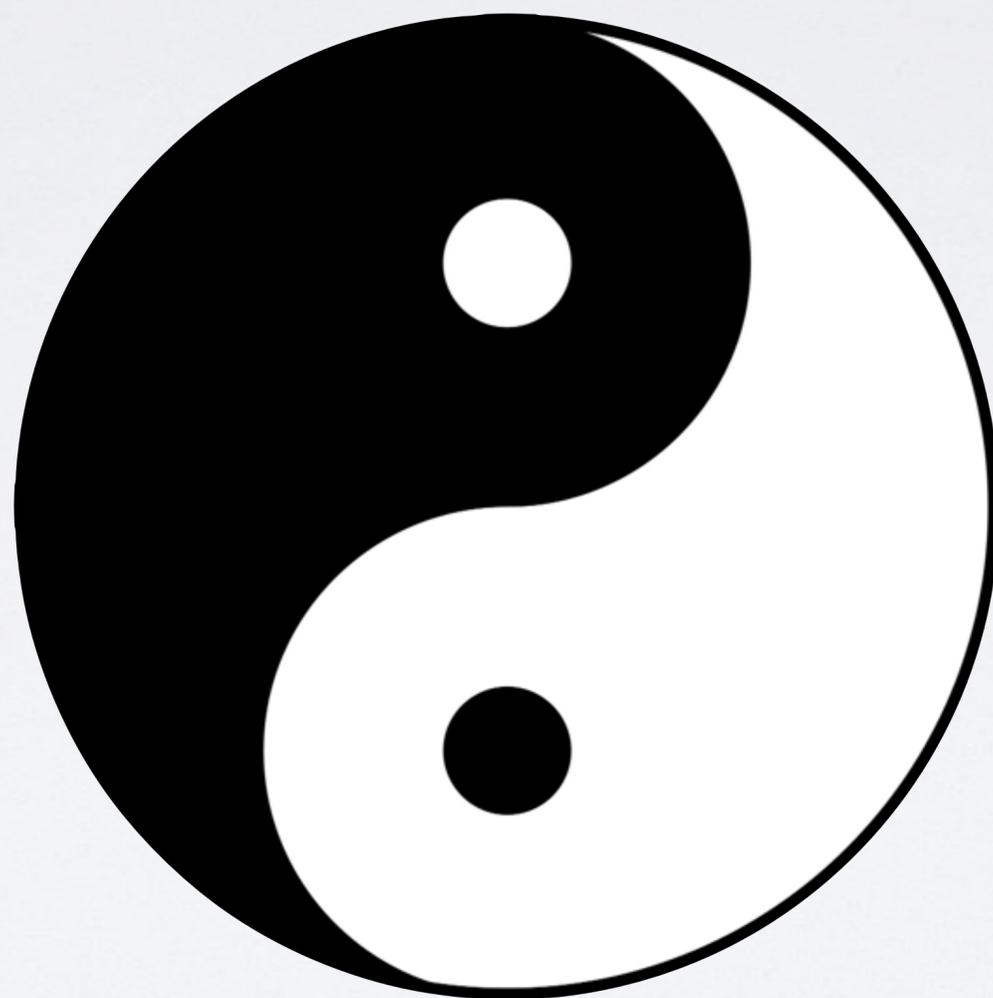


# CAN'T WE ALL JUST GET ALONG?

Andrina Kelly - @andrina - Bell Media  
Diana Birsan - @DianaBirsan - Bell Media

WHY ARE WE TALKING ABOUT  
THIS?



Swansea — Toronto

Standard Hybrid Satellite

Search: cafe

### Baka Gallery Cafe

6,110 kilometers, Toronto

★★★★☆ 8 reviews

Cafes \$\$

Hours 8:00AM - 9:00PM

**Info** | **Reviews** | **Photos**

★★★★☆ by Anna N. 2014-04-29  
 Enjoyed my lunch here today! Everything seemed to be made right there (the croutons in my salad seemed fresh-baked?!) and the service was friendly and efficient....

★★★★★ by john t. 2014-03-01  
 Have enjoyed this place as a lunch stop a few times. We love the art gallery feel with white walls. Great sandwiches and coffee. Oh yes the soup us excellent.

★★★★☆ by M J. 2014-06-23  
 I just wanted to add that they have a lovely patio in the summers and they've started serving chocolate cupcakes :)

[More Reviews on yelp](#)

[Add Bookmark](#) [Get Directions](#)  
[Add to Contacts](#) [Write a Review](#)

- Starbucks Coffee Co**  
2210 Bloor St W, Toronto ON M6S 1N4  
★★★★☆ 5 reviews
- Baka Gallery Cafe**  
2256 Bloor St W, Toronto ON M6S 1N6  
★★★★☆ 8 reviews
- Cranberries Café**  
363 Windermere Ave, Toronto ON M6S 3L2
- Cafe Novo**  
1986 Bloor St W, Toronto ON M6P 3K9  
★★★★☆ 44 reviews
- Grenadier Cafe**  
200 Parkside Dr, Toronto ON M6R 0A1  
★★★★☆ 32 reviews
- J&C Bistro - The Bistro on Jane**  
558 Jane St, Toronto ON M6S 4A5  
★★★★★ 4 reviews
- dip 'n dip**  
2489 Bloor St W, Toronto ON M6S 1R6  
★★★☆☆ 1 review
- Caboose Coffee House**  
3333 Dundas St W, Toronto ON M6P 2A6  
★★★★★ 1 review
- Vuong Cafe**  
374 Keele St, Toronto ON M6P 2K8  
★★★★☆ 1 review
- MELANGE Cafe**  
2425 Bloor St W, Toronto ON M6S 4W4
- Bread & Roses Bakery Cafe**  
2232 Bloor St W, Toronto ON M6S 1N6  
★★★★☆ 21 reviews
- Hot Oven Bakery**  
2226 Bloor St W, Toronto ON M6S 1N6  
★★★★☆ 19 reviews

# WHAT ARE WE GOING TO COVER?

- Clear up some acronym mysteries
- Lots of Show & Tell
- Fun!

Let's Solve a Problem

Home Layout Document Elements Tables Charts SmartArt Review

Font: Calibri (Body) 16 A A Aa Ab B I U ABC A<sup>2</sup> A<sub>2</sub> A ABC A

Paragraph: [List Bulleted Numbered Indentation Decrease Indentation] [Bulleted List] [Numbered List] [Decrease Indentation] [Increase Indentation]

Styles: AaBbCcDdEe Normal AaBbCcDdEe No Spacing AaBbCcD Heading 1 AaBbCcDdI Heading 2

Insert: Text Box Shape Picture Themes

**BellMedia**

PW No:  
Date Submitted:  
Date Approved:

### Project Estimation Worksheet

**Project Name:** \_\_\_\_\_

**Requestor:** \_\_\_\_\_

**Project Prime:** \_\_\_\_\_

**Department:** \_\_\_\_\_ **Brand Priority:** \_\_\_\_\_

**Property:** \_\_\_\_\_

**Date Submitted:** \_\_\_\_\_ **Target Launch Date:** \_\_\_\_\_

**Reason for project:** Revenue  Cost Reduction  \*\*Maintenance  Regulatory   
\*\*Maintenance = Minor changes to an existing site, requiring a minimum of resources to execute (< 8 hrs /incidence) involving requiring no version changes in software or hardware.

**Cross-Platform Coordination:** TV  Production  Mobile/App  User Experience /gfx

**Site Owner Approved?** Yes  No  \* site owner must approve this project prior to submission \*

**Site Owner:** \_\_\_\_\_

**Engineering Owner:** \_\_\_\_\_

**Capital Project?** Yes  No  If Yes, indicate budget amount/PEATS \$ \_\_\_\_\_  
(If, no is it an Operational Project i.e. expense?)

**Operational Project?** Yes  No  If Yes, indicate budget amount/GL Code \$ \_\_\_\_\_

**Revenue Impact? \*\*** Yes  No  If Yes, indicate potential impact \$ +/- \_\_\_\_\_  
\*\*describe more fully in Expected Benefits section

**What resources do you need?** UX  Design  Development  QA

**Brief Project Description:**

\_\_\_\_\_

**Overall Project Objective(s):**

\_\_\_\_\_

LOOK AT THE SHINY THING!









```
jira_url = "https://username:*****@ts-jira.bellmedia.ca/rest/api/2/issue/"
project_key = "PR"
issue_type = "10100"
summary = params[:summary]
description = params[:description]
reporter = session[:user_name]
brand = params[:brand]
sownerapp = params[:sowner]
department = params[:department]
priority = params[:priority]
capex = params[:capex]
opex = params[:opex]
revenueimp = params[:revenueimp]
launchdate = params[:launchdate]

date = Date.new(launchdate["date(1i)"].to_i, launchdate["date(2i)"].to_i,
  launchdate["date(3i)"].to_i).to_s

reasons = "{\"value\": \"#{params[:reason][0]}\"}"
(1..params[:reason].count - 1).each do |index|
  reasons += ", {\"value\": \"#{params[:reason][index]}\"}"
end

coordinations = "{\"value\": \"#{params[:coordination][0]}\"}"
(1..params[:coordination].count - 1).each do |index|
  coordinations += ", {\"value\": \"#{params[:coordination][index]}\"}"
end
```

```

if summary.blank? || issue_type.blank? || brand.blank? || department.blank? ||
priority.blank? || reasons.blank? || coordinations.blank? || platforms.blank? ||
capex.blank? || sownerapp.blank? || opex.blank? || revenueimp .blank? || resource
.blank?
  redirect_to :back
  flash[:notice] = "All fields must be completed"
else
  @request = RestClient.post(jira_url, '{ "fields": { "project": {"key": "' +
project_key + '"}, "summary": "' + summary + '", "description": ' + description.
inspect + ', "issuetype": {"id": "' + issue_type + '"}, "reporter": {"name": "' +
reporter + '"}, "customfield_11903": {"value": "' + brand + '"},
"customfield_11906": "' + department + '" , "customfield_11907": {"value": "' +
priority + '"}, "customfield_11908": "' + date + '" , "customfield_11909": [' +
reasons + '], "customfield_11910": [' + coordinations + '], "customfield_11911": ['
+ platforms + '], "customfield_11912": {"value": "' + capex + '"},
"customfield_11914": {"value": "' + sownerapp + '"}, "customfield_11915":
{"value": "' + opex + '"}, "customfield_11916": {"value": "' + revenueimp + '"},
"customfield_11917": [' + resource + ']]}', :content_type => :json, :accept => :
json)
  if @request
    request
    render "main/submit"
  else
    render :partial => 'select'
  end
end
end

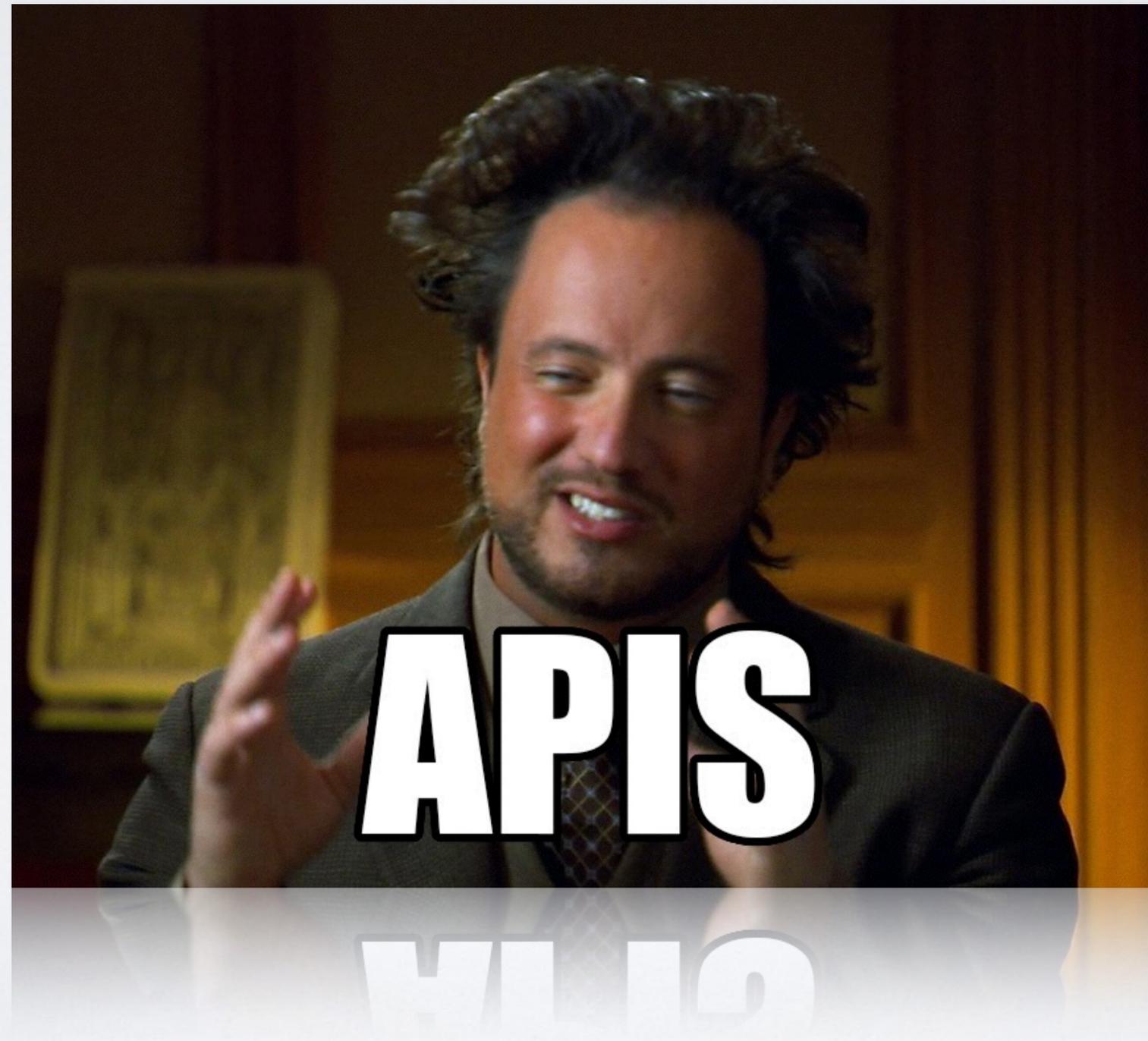
```

TWEETYPY



DEMO

WHAT IS AN API?

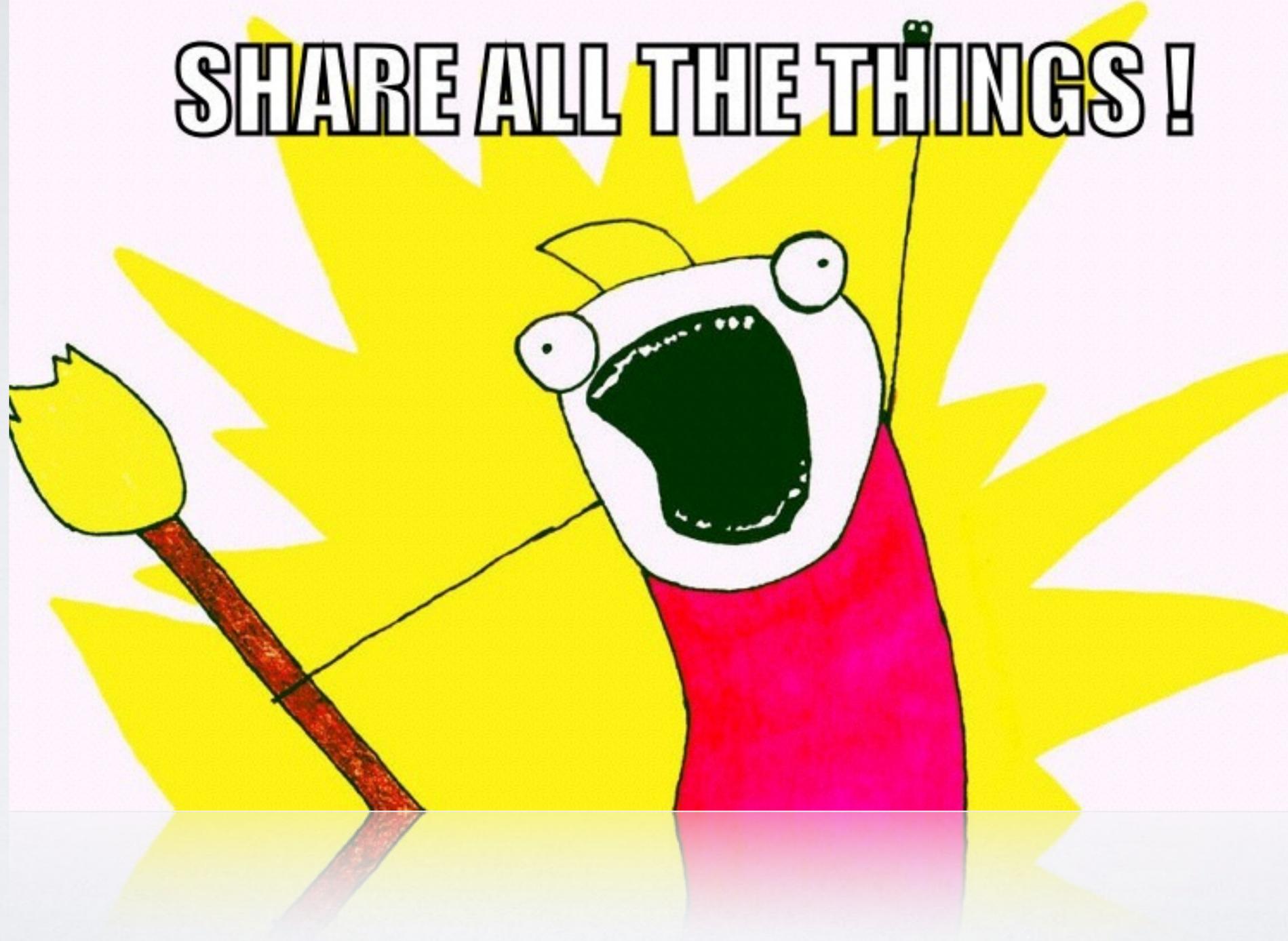


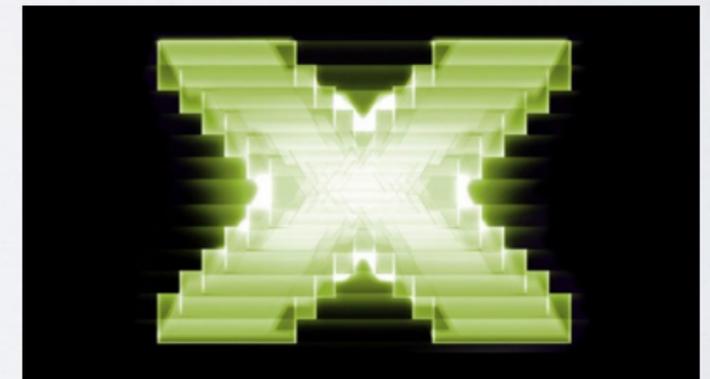
Analogy Time!



- Application Program Interfaces
- Instructions and Communication
- Predefined functions
- Structured remote calls or request messages

**SHARE ALL THE THINGS !**





# SYSTEM APIS

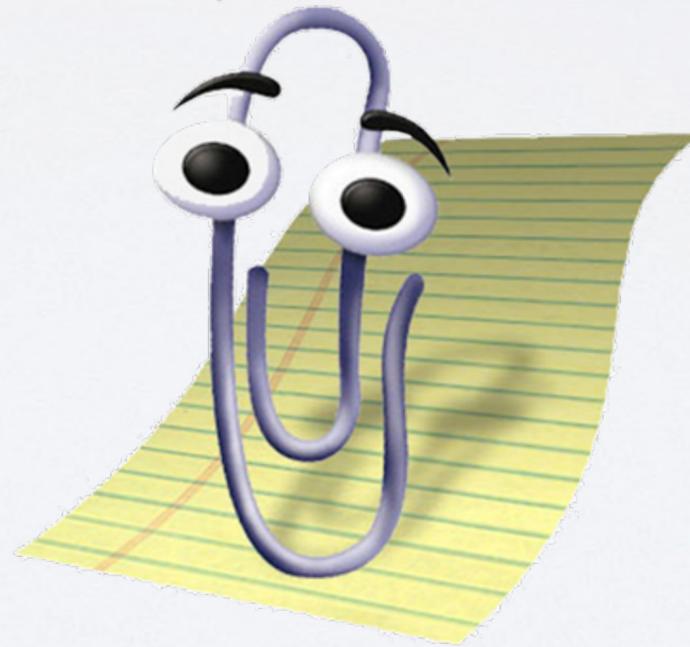
It looks like you're trying to  
copy and paste,

Would you like some help?

Yes

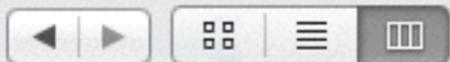
No

Shut it  
Clippy



Save As: The coolest

Tag:



- Desktop
- Documents
- Downloads
- Pictures
- Movies
- Music
- Google Drive

SHARED

mbpr thomas

Form

Description

The XML-based format that Word d

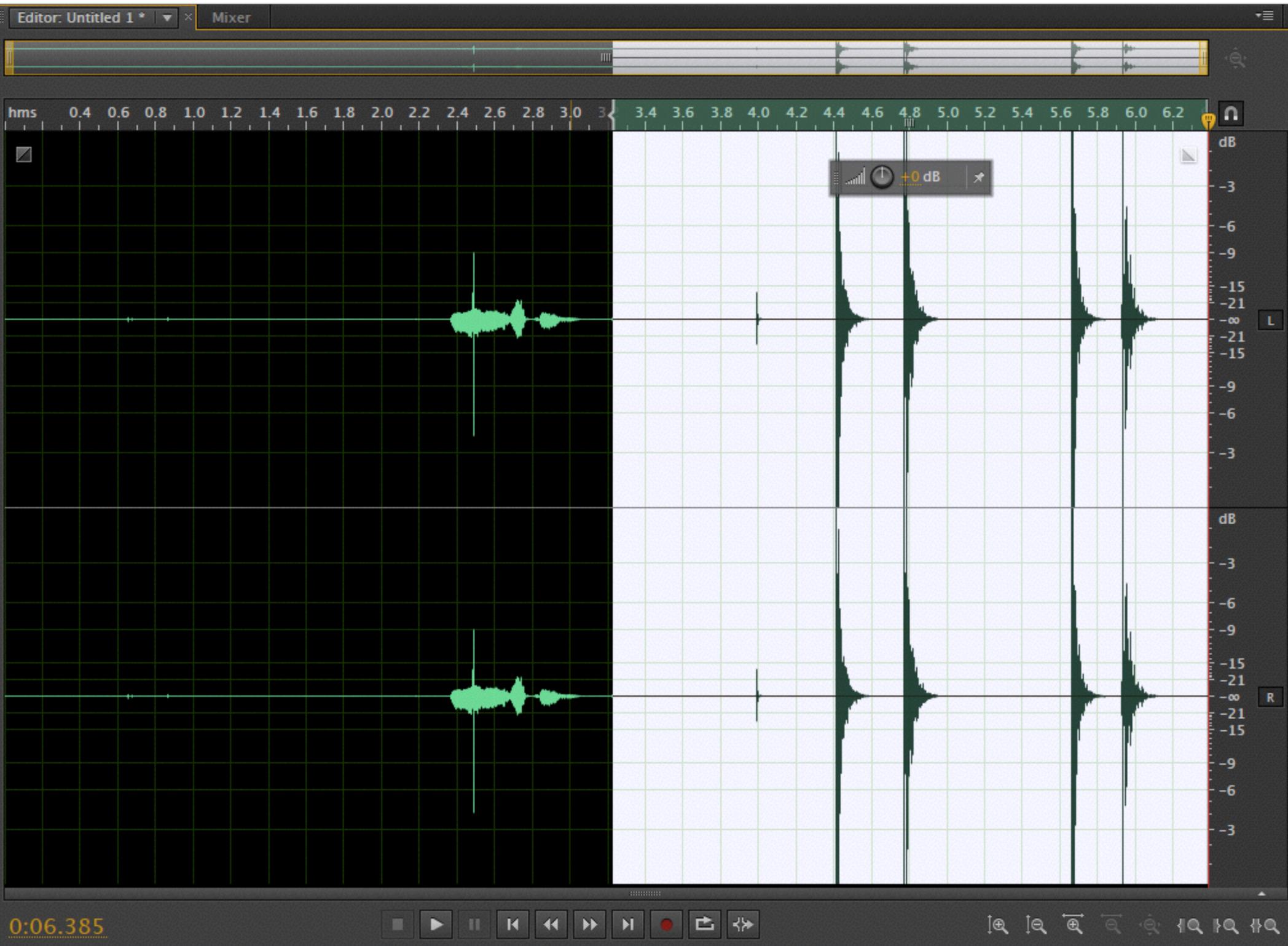
[Learn more about file formats](#)

Options...

Compatibility

Hide extension

New Folders



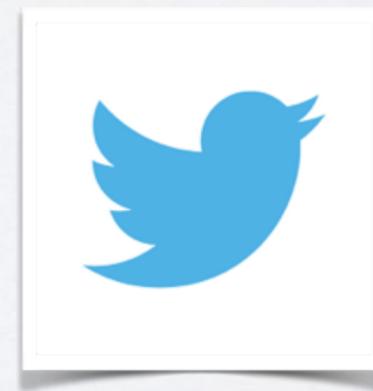
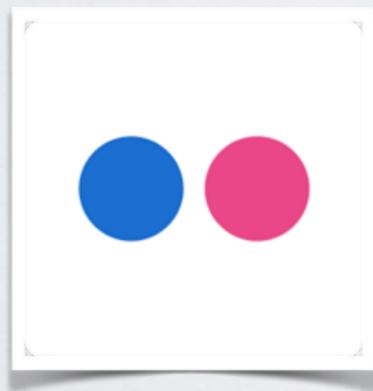
# Game APIS

- Compatibility between configurations
- DirectX, OpenGL and Mantle
- Interfacing by making draw calls



# WEB APIS

<http://www.programmableweb.com>



```
src="https://maps.googleapis.com/maps/api/js?key=
sensor=true">
$.getJSON("https://api.flickr.com/services/rest/?method=flickr.photos.search&api_key=
&user_id=127371566@N05&has_geo=1&extras=geo&format=json&
jsoncallback=?", displayImages3);

    //Get the url for the image.
    var photoURL = 'http://farm' + item.farm + '.static.flickr.com/' +
item.server + '/' + item.id + '_' + item.secret + '_n.jpg';
    htmlString = '';
    var contentString = '<div id="content">' + htmlString + '</div>';

    //Create a new info window using the Google Maps API
    var infowindow = new google.maps.InfoWindow({
        //Adds the content, which includes the html to display the image
        content: contentString,
    });

    //Using the Google Maps API to create the map.
    var myLatLngCenter = new google.maps.LatLng(57.703347,11.955871);
    var mapOptions = {
        center: myLatLngCenter,
        zoom: 14,
        mapTypeId: google.maps.MapTypeId.ROADMAP
    }
```



DEMO

# WHAT IS AN SDK?

- **S**oftware **D**evelopment **K**it
- Package of pre-written code that developers can re-use in order to minimize the amount of unique code that they need to develop themselves



# CASPER SUITE SDK



Release Notes.pdf



Documentation &  
Resources



JSS API



Self Service API

# WHAT IS SOAP?



# WHAT IS SOAP?

- **S**imple **O**bject **A**ccess **P**rotocol
- Basic Messaging Framework
- Communication Protocol over HTTP
- Developed by Microsoft
- XML-based only



A red bar of soap is shown in a white soap dish. The word "EIGHT" is embossed on the soap bar. The background is dark.

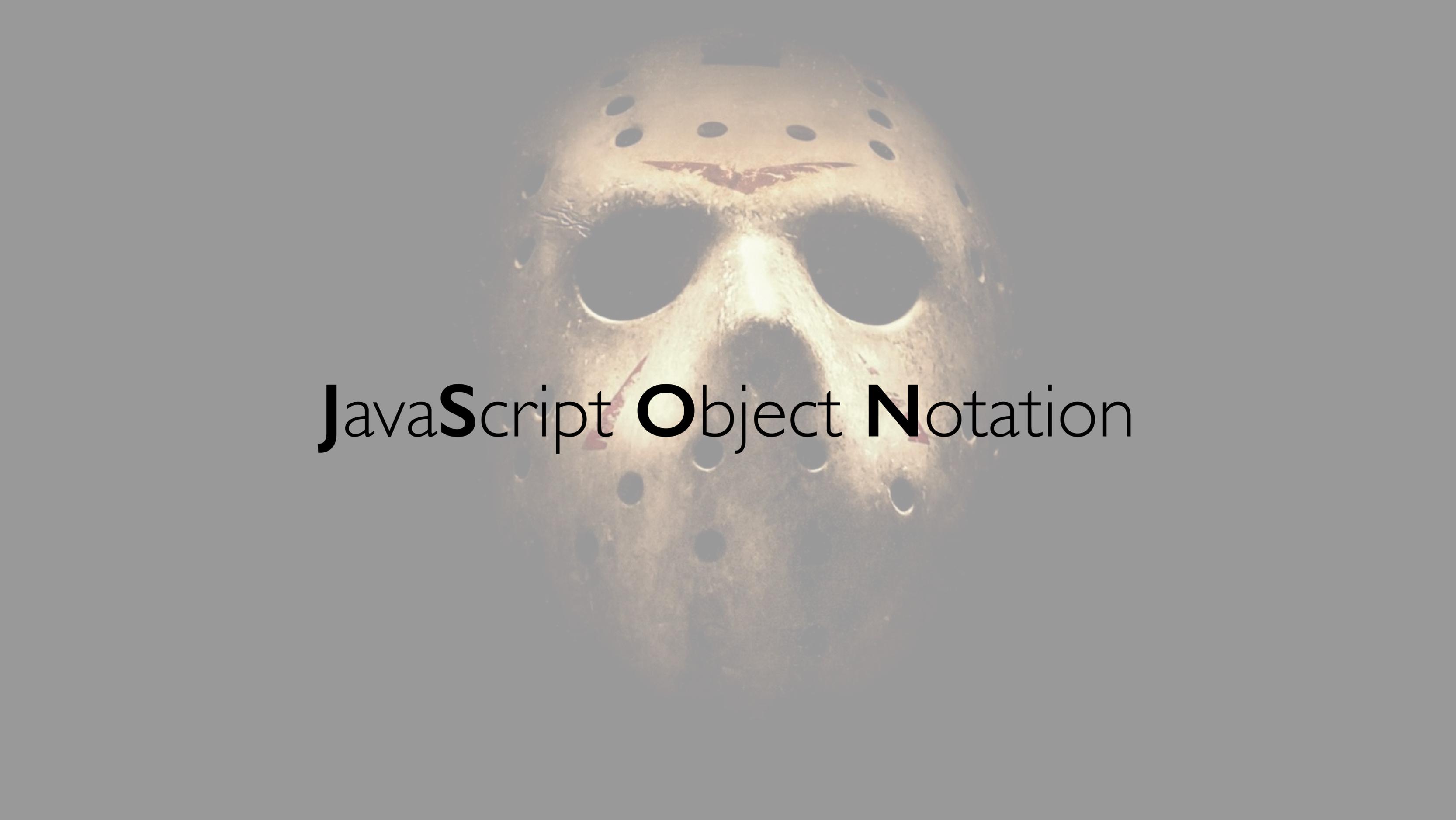
“XML IS WRONG, JSON IS THE  
WAY FORWARD!”



WHAT'S JSON....







# JavaScript **O**bject **N**otation

# XML

```
<speakers>
  <speaker>
    <firstName>Tycho</firstName> <lastName>Sjögren</lastName>
  </speaker>
  <speaker>
    <firstName>Arek</firstName> <lastName>Dreyer</lastName>
  </speaker>
  <speaker>
    <firstName>Marko</firstName> <lastName>Jung</lastName>
  </speaker>
</speakers>
```

# JSON

```
{ "speakers":  
  { "speaker": [  
    { "firstName": "Tycho", "lastName": "Sjögren" },  
    { "firstName": "Arek", "lastName": "Dreyer" },  
    { "firstName": "Marko", "lastName": "Jung" }  
  ] }  
}
```

# CONVERTING XML TO JSON

- <https://github.com/parmentf/xml2json>
- Not native, requires npm to install
- Ruby is your friend

# XML → JSON

```
#!/usr/bin/ruby
```

```
require 'rubygems'  
require 'active_support/core_ext'  
require 'json'
```

```
xml = File.open(ARGV.first).read  
json = Hash.from_xml(xml).to_json
```

```
File.open(ARGV.last, 'w+').write json
```

WHAT IS REST?



- Representational State Transfer
- Architectural Style behind WWW
- Unique URI represents an object
- RESTful web services

# CONSTRAINTS

- Code-on-Demand
- Uniform Interface
- Stateless
- Cacheable
- Client-Server
- Layered System



# JSS REST API Resource Documentation

## /accounts

Show/Hide | List Operations | Expand Operations

GET	/accounts	Finds all accounts
GET	/accounts/userid/{id}	Finds users by id
POST	/accounts/userid/{id}	Creates a new user by id
PUT	/accounts/userid/{id}	Updates an existing user by id
DELETE	/accounts/userid/{id}	Deletes a user by id
GET	/accounts/username/{name}	Finds users by name
GET	/accounts/groupid/{id}	Finds groups by id
POST	/accounts/groupid/{id}	Creates a new group by id
PUT	/accounts/groupid/{id}	Updates an existing group by id
DELETE	/accounts/groupid/{id}	Deletes a group by id

<https://jss.jamfsw.com/jss/api/>

```
#!/bin/bash -x
API_User='apiwrite' # Replace with your username
API_Pass='apiwrite' # Replace with your password
MAC_Address=$1 # Lowercase colon separated MAC address of the new Mac
Numeric_Site_ID='1' # Replace with desired Site or leave as -1 to not set a Site
JSS='127.0.0.1:8443'
read -r -d '' XML_Chunk <<EOF
<?xml version="1.0" encoding="UTF-8"?>
<computer>
  <general>
    <name>${MAC_Address}</name>
    <mac_address>${MAC_Address}</mac_address>
    <site>
      <id>${Numeric_Site_ID}</id>
    </site>
  </general>
  <hardware>
    <os_name>Mac OS X</os_name>
  </hardware>
</computer>
EOF
echo "$XML_Chunk" | curl -T - --user "${API_User}":"${API_Pass}" --request POST
https://${JSS_FQDN}/JSSResource/computers/id/0
```

DEMO

WHAT IS THE DIFFERENCE  
BETWEEN SOAP & REST?

# JSS EXTENSION ATTRIBUTE DEMO

```
#!/bin/bash
```

```
#
```

```
#Determine Computer Name
```

```
COMPUTER=`scutil --get ComputerName`
```

```
#Determine Machine ID based on Computer Name
```

```
ID=`curl -k -s -u apiread:apiread
```

```
https://127.0.0.1:8443/JSSResource/computers/name/$COMPUTER | xpath computer/general/id |
```

```
awk 'gsub(/<id>|<\/id>/,x) '`
```

```
#!/bin/bash
#
#Determine Computer Name
COMPUTER=`scutil --get ComputerName`

#Determine Machine ID based on Computer Name
ID=`curl -k -s -u apiread:apiread
https://127.0.0.1:8443/JSSResource/computers/name/$COMPUTER | xpath computer/general/id|
awk 'gsub(/<id>|<\/id>/,x) '`
```

```
<?xml version="1.0" encoding="UTF-8"?><computer><general><id>1</id><name>MacSysAdmin</name><mac_address>A8:20:66
:31:DC:C1</mac_address><alt_mac_address>88:53:95:28:3F:39</alt_mac_address><ip_address>127.0.0.1</ip_address><se
rial_number>C07JN09CDY3H</serial_number><udid>C84D13E0-6394-51D9-B10F-DB9877528876</udid><jamf_version>9.4</jamf
_version><platform>Mac</platform><barcode_1/><barcode_2/><asset_tag/><remote_management><managed>true</managed><
management_username>admin</management_username><management_password deprecated="9.23">*****</mana
gement_password><management_password_md5 since="9.23">97bf34d31a8710e6b1649fd33357f783</management_password_md5>
<management_password_sha256 since="9.23">56965e2a1a995c74da500088947af11dfa27951cc350d0b97d0633075969c31b</manag
ement_password_sha256></remote_management><mdm_capable>>false</mdm_capable><report_date>2014-09-14 13:00:34</repo
rt_date><report_date_epoch>1410692434793</report_date_epoch><report_date_utc>2014-09-14T13:00:34.793+0200</repo
rt_date_utc><last_contact_time>2014-09-17 17:10:26</last_contact_time><last_contact_time_epoch>1410966626203</las
t_contact_time_epoch><last_contact_time_utc>2014-09-17T17:10:26.203+0200</last_contact_time_utc><initial_entry_d
ate>2014-09-12</initial_entry_date><initial_entry_date_epoch>1410495278300</initial_entry_date_epoch><initial_en
```

```
<id>1</id>
```

```
#!/bin/bash
#
#Determine Computer Name
COMPUTER=`scutil --get ComputerName`

#Determine Machine ID based on Computer Name
ID=`curl -k -s -u apiread:apiread
https://127.0.0.1:8443/JSSResource/computers/name/$COMPUTER | xpath computer/general/id|
awk 'gsub(/<id>|<\/id>/,x) '`

#Determine username based on Machine ID
USERNAME=`curl -k -s -u apiread:apiread
https://127.0.0.1:8443/JSSResource/computers/id/$ID | xpath //location/username| awk
'gsub(/<username>|<\/username>/,x) '`
```

dbirsan



```
JIRAISSUES=`curl -s -u apiread:apiread
http://localhost:8088/rest/api/2/search?jql=project%20=%20CTS%20AND%20created%20%3E=%20-
30d%20%20%20AND%20reporter%20in%20%28$USERNAME%29 | ruby -e "require 'rubygems';require
'json'; jj JSON.parse(STDIN.gets)" | grep '"CTS-' | awk 'gsub(/"/,/,"x)' | awk 'gsub(/"key":
"/, "http://localhost:8088/browse/") '`
```

```
{"expand": "schema, names", "startAt": 0, "maxResults": 50, "total": 6, "issues": [{"expand": "operations, editmeta, changelo
g, transitions, renderedFields", "id": "10005", "self": "http://localhost:8088/rest/api/2/issue/10005", "key": "CTS-6", "
fields": {"issuetype": {"self": "http://localhost:8088/rest/api/2/issuetype/3", "id": "3", "description": "A task that
needs to be done.", "iconUrl": "http://localhost:8088/images/icons/issuetypes/task.png", "name": "Task", "subtask": fa
lse}, "components": [], "timespent": null, "timeoriginalestimate": null, "description": "h4. Now it's your turn!\n{color
:#707070}Now that you know the basics of JIRA, there is so much more you can do, JIRA administrators can do the
following:{color}\n\n* {color:#707070}Create your own project - return to [View All Projects|http://localhost:80
```

```
"key": "CTS-6",
"key": "CTS-5",
"key": "CTS-4",
"key": "CTS-3",
"key": "CTS-2",
"key": "CTS-1",
```

```
http://localhost:8088/browse/CTS-6
http://localhost:8088/browse/CTS-5
http://localhost:8088/browse/CTS-4
http://localhost:8088/browse/CTS-3
http://localhost:8088/browse/CTS-2
http://localhost:8088/browse/CTS-1
```

```
echo "<result>$JIRAISSUES</result>"
```

DEMO

DEMO - XCODE - TWITTER

