

JAVASCRIPT DEVELOPMENT

Sasha Vodnik, Instructor

HELLO!

- 1. Pull changes from the svodnik/JS-SF-14-resources repoto your computer
- 2. Open the 11-advanced-apis > starter-code folder in your code editor
- 3. If you haven't already,
 - download Postman from https://getpostman.com
 - sign up for a Flickr account at https://flickr.com (or sign in with an existing Yahoo account)

LEARNING OBJECTIVES

At the end of this class, you will be able to

- Request data from a web service.
- Implement the geolocation API to request a location.
- Use Postman to construct and test an API request.
- Process a third-party API response and share location data on your website.
- Search documentation needed to make and customize third-party API requests.

ADVANCED APIS 4

AGENDA

- Configure Flickr account
- Implement geolocation
- Set up Postman
- Create and send API call
- Handle API response

ADVANCED APIS

WEEKLY OVERVIEW

WEEK 7

Advanced APIs / Project 2 lab

WEEK 8

Prototypal inheritance / Closures & this

WEEK 9

CRUD & Firebase / Deploying your app

EXIT TICKET QUESTIONS

- 1. Is error handling similar to defens[ive] programming?
- 2. How does throwing errors work
- 3. I don't understand promises, and fetch also felt lightly covered.

Fetch

```
fetch(url).then(function(res) {
  if(res.ok) {
    return res.json();
  } else {
    throw 'problem';
}).then(function(data) {
  // DOM manipulation
}).catch(function(error) {
  // handle lack of data in UI
```

```
jQuery .get()
```

```
$.get(url).done(function(data) {
  // DOM manipulation
.fail(function(error) {
    handle lack of data in UI
```

HOMEWORK REVIEW

HOMEWORK — GROUP DISCUSSION



TYPE OF EXERCISE

Pairs

TIMING

6 min

- 1. Share your solutions for the homework.
- 2. Share 1 thing you found challenging. If you worked it out, share how; if not, brainstorm with your group how you might approach it.

JAVASCRIPT DEVELOPMENT

ADVANCED APIS

ADVANCED APIS 1'

BUILDING OUR APP

- 1. Get user's location
- 2. Create request to Flickr with user's location info
- 3. Parse API response and add returned images to view

ADVANCED APIS

BUILDING OUR APP

Our app



Get user's location



 Create request containing user's location info





- Parse API response
- Add returned images to view



ENDPOINTS

Basics

Authentication

- GET pauth/authenticate
- GET oauth/authorize
- POST oauth/access_token
- POST oauth/invalidate_token
- POST oauth/request_token
- POST oauth2/invalidate_token
- POST oauth2/token

Accounts and users

Create and manage lists

- GET lists/list
- GET lists/members
- GET lists/members/show
- GET lists/memberships
- GET lists/ownerships

EXERCISE



OBJECTIVE

Search documentation needed to make and customize third-party API requests.

TIMING

4 min

- 1. Read the documentation for at least 2 endpoints ("API methods") from the list at https://www.flickr.com/services/api/
- 2. Identify an endpoint that will let us find photos based on a user's location.

Get User's Location

Call the Flickr endpoint

Handle the Response

EXERCISE



OBJECTIVE

 Process a third-party API response and share location data on your website.

TIMING

15 *min*

- 1. Create a handleResponseSuccess callback function to do the following:
 - Iterate through your response data, creating an img element each time with the given image URL from the API.
 - Add the class image to the img element
 - Append the new img element to the element with the class images, which already exists in the HTML.

Customize Search Results

EXERCISE



OBJECTIVE

Search documentation needed to make and customize third-party API requests.

TIMING

until 9:20

Search the API documentation as necessary to modify your API request to do the following:

- Return 30 photos instead of the default 100
- Sort results by relevance

Bonus 1: Return URLs for larger images (Hint: Check out the extras argument at

https://www.flickr.com/services/api/flickr.photos.search.html and look at the Size Suffixes section at https://www.flickr.com/services/api/misc.urls.html).

Bonus 2: Instead of landscapes, return photos from a different category (see tags at https://www.flickr.com/photos/tags/)

Bonus 3: Rewrite your app to use the Flickr SDK (https://github.com/flickr/flickr-sdk)

Exit Tickets!

(Class #11)

ADVANCED APIS

LEARNING OBJECTIVES - REVIEW

- Request data from a web service.
- Implement the geolocation API to request a location.
- Use Postman to construct and test an API request.
- Process a third-party API response and share location data on your website.
- Search documentation needed to make and customize third-party API requests.

NEXT CLASS PREVIEW

In-class lab: Feedr

- Familiarize yourself with the API documentation for news sources.
- Fork and clone your starter code.
- Strategize ways to hide the loader and replace the content of the #main container with that of the API.
- Look up other news sources that might be useful for the project.

Q&A