

JAVASCRIPT DEVELOPMENT

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HELLO!

1. Pull changes from the `svodnik/JS-SF-16-resources` repo to your computer
2. Open the `11-advanced-apis` folder in your editor
3. If you haven't already, sign up for a Postman account at <https://getpostman.com>, and optionally download the Postman app.

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.

AGENDA

- Get oriented with Flickr
- Implement geolocation
- Set up Postman
- Create and send API call
- Handle API response

ADVANCED APIS

WEEKLY OVERVIEW

WEEK 6

Asynchronous JS & callbacks / Advanced APIs

WEEK 7

Project 2 lab / Prototypal inheritance

WEEK 8

Closures & this / CRUD & Firebase

EXIT TICKET QUESTIONS

1. Today felt really fast; not sure I got everything
2. Maybe not putting coding exercises at the end of class to make sure we have enough time
3. I've found myself referencing the solution code more and more as we do exercises. What's the balance you think we should make between trying to power through the exercise and checking the solution code if we get stuck?
4. can we go over async flow w/ fetch one more time please?

JAVASCRIPT DEVELOPMENT

ADVANCED APIS

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

BUILDING OUR APP

Our app



- Get user's location

2

- Create request containing user's location info



flickr.com server



- Parse API response
- Add returned images to view

3

ENDPOINTS

Basics

Authentication

- GET oauth/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



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



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 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
- Instead of landscapes, return photos from a different category (see tags at <https://www.flickr.com/photos/tags/>)
- Use DOM manipulation to add a message on the web page when no results are available

Bonus: 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>).



EXERCISE

Project 2: Feedr

- **GitHub repo to fork:**

<https://git.generalassemb.ly/vodnik/feedr>

- **Project overview & instructions:**

<https://pages.git.generalassemb.ly/vodnik/JSD16/pages/feedr.html>

Exit Tickets!

(Class #11)

LEARNING OBJECTIVES – REVIEW

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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.
- Integrate string and variable values using template literals

Q&A