

Shark Feed



Using the Flickr search API create an infinite scrolling list of shark photos. Tapping on any of the photos in the shark feed should open a full screen photo lightbox with a button to download the original photo and to open the photo on Flickr.

Must-have features

- Infinite scrolling.
- Pull to refresh.
- Lightbox to view high quality image when tapping on a photo.
- Saving of original photo to camera roll from a button in the lightbox.
- Handling device rotation throughout the app.

Nice-to-have features (this list is not exhaustive; be creative!)

- Load low quality photos before loading the larger appropriate quality to improve performance.
- Zooming in the lightbox view.Pre-fetching of photo pages and photos.
- Showing photo info in the lightbox (title, description, user) etc.
- Custom animation for the transition into the lightbox.
- Opening Flickr page for photo from a button in the lightbox.

Do (iOS)

- Use Objective-C.
- Use a UICollectionView for the infinite scrolling feed.
- Use NSURLSession to fetch responses from the Flickr search API.
- Use Auto Layout (OK to use third-party wrappers)
- Support iOS 9.

Don't (iOS)

- Use third party libraries (other than simple helpers such as Auto Layout wrappers).

Do (Android)

- Use RecyclerView.
- Support at least API level 17.

Don't (Android)

- Use ListViews.

Most Importantly:

Write great code! More important than features is a well thought out architecture, clean interfaces and generally readable code. Write code that you are proud of.

API Details

- **API Key:** 949e98778755d1982f537d56236bbb42
- **Full Flickr public API documentation:** <https://www.flickr.com/services/api/>
- **Flickr Search API documentation:**
<https://www.flickr.com/services/api/flickr.photos.search.html>
Use the following to get a JSON response of the first page of shark search results and URLs to thumbnail, medium, large and original (if available) images.
https://api.flickr.com/services/rest/?method=flickr.photos.search&api_key=949e98778755d1982f537d56236bbb42&text=shark&format=json&nojsoncallback=1&page=1&extras=url_t,url_c,url_l,url_o
- **Flickr Photo Info documentation:**
<https://www.flickr.com/services/api/flickr.photos.getInfo.html>
Use the following to get a JSON response of information about a photo with a photo id.
https://api.flickr.com/services/rest/?method=flickr.photos.getInfo&api_key=949e98778755d1982f537d56236bbb42&photo_id=22337474460&format=json&nojsoncallback=1

Assets:

<https://www.dropbox.com/sh/2h78gbdeyxfekls/AABEihLVKUZXaldKcPHhqLwha?dl=0>

Example:

Launch



Grid



Pull to refresh



Lightbox



