

Base URL: **<https://api.flickr.com>**

Service specific URL:

[/services/rest/?format=json&nojsoncallback=1&method=flickr.photos.search](#)

API KEY: **6a8e0794c29c9c6641e639af0f2e0754** (as **api_key** query param)

Search Tag: **"User entered search tag"** (as **tags** query param)

Sample request URL:

https://api.flickr.com/services/rest/?method=flickr.photos.search&tags=trees&api_key=6a8e0794c29c9c6641e639af0f2e0754&format=json&nojsoncallback=1

How to construct the image URL from response:

R.string.url_builder:

https://farm%d.staticflickr.com/%s/%s_%s_b.jpg

In Java:

```
String url = String.format(mContext.getString(R.string.url_builder),  
    photo.getFarm(), photo.getServer(), photo.getId(), photo.getSecret());
```

How to load images into an image view using Picasso:

```
Picasso.with(mContext).load(url).into(imageView);
```

Useful libraries:

```
compile 'com.squareup.retrofit2:retrofit:2.3.0'
```

```
compile 'com.squareup.retrofit2:converter-jackson:2.3.0'
```

```
compile 'com.fasterxml.jackson.core:jackson-databind:2.8.6'
```

```
compile 'com.squareup.picasso:picasso:2.5.2'
```

Develop an Android app, which displays a list of images from the API response based on the tag that the user searches for. You can use any of the ListView, RecyclerView, or GridView as you wish. Feel free to use Activities, Fragments, and other Android components as you see fit. You are free to use any other libraries than what are suggested above to develop this application. You can use Google if you need a refresher on some concepts, but act responsibly.

Sample Response:

```
{
  "photos": {
    "page": 1,
    "pages": 5,
    "perpage": 100,
    "total": 500,
    "photo": [
      {
        "id": "40090230661",
        "owner": "52752495@N03",
        "secret": "e6cfe49d3b",
        "server": "4764",
        "farm": 5,
        "title": "'The Vanishing' - Old Man of Storr",
        "ispublic": 1,
        "isfriend": 0,
        "isfamily": 0
      },
      {
        "id": "25220604127",
        "owner": "10641418@N00",
        "secret": "76848e3134",
        "server": "4765",
        "farm": 5,
        "title": "Talla Reservoir",
        "ispublic": 1,
        "isfriend": 0,
        "isfamily": 0
      },
      .
      .
      .
    ]
  },
  "stat": "ok"
}
```