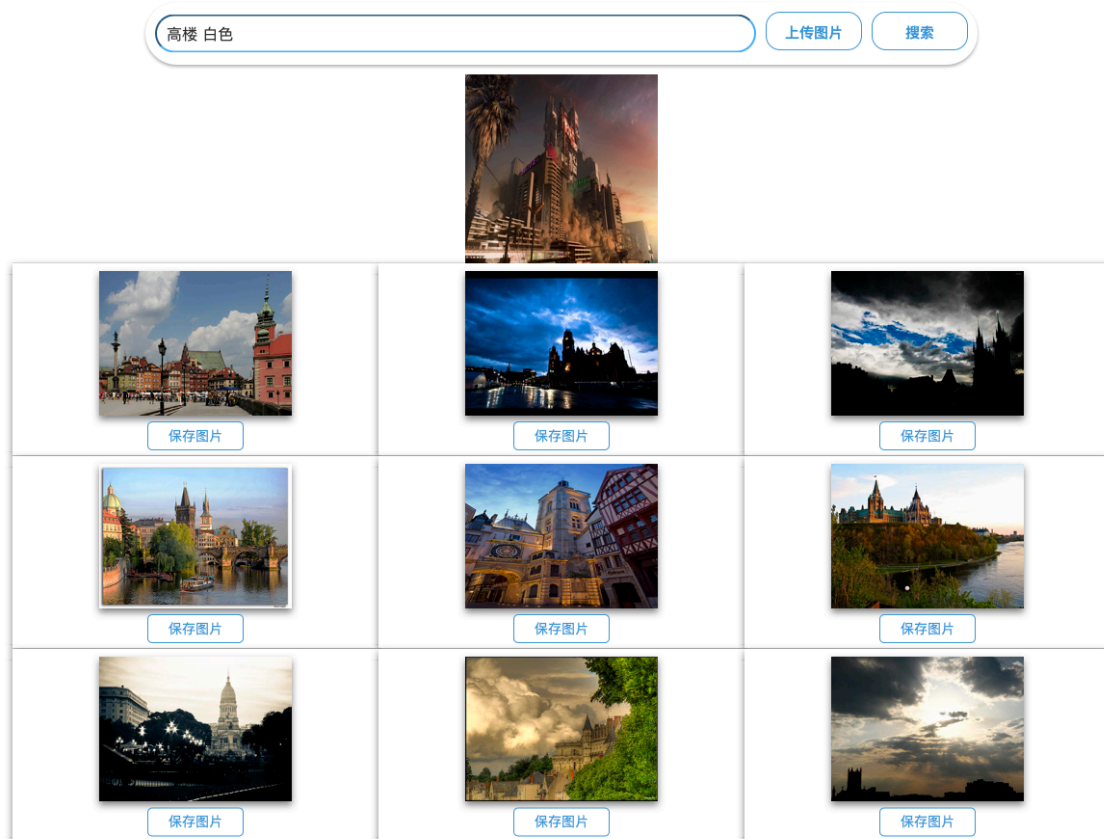


# Lab3 Information Retrieval

## IMAGE SEARCH DEMO



## Use

- Download [imagenet](#) folder, extraxt and keep it in server directory
- Download datasets for [footwares](#), [apparels](#) keep them inside a directory under upload folder. Final folder strcture will be as below

```

1      root folder
2      |
3      └── lib
4      |
5      └── server
6          ├── rest-server.py
7          ├── imagenet
8          ├── static
9          ├── templates
10         ├── uploads
11             ├── dogs_and_cats
12                 ├── shoes
13                 ├── sandals
14                 ├── slippers
15                 └── boots

```

- To run the code, you should install `conda` environment like the following:

```
1 | pip install -r requirements.txt
```

On the other hand, you should also download and unzip [database.zip](#) in `server`.

After installing the essential package, you can run the code as follows:

```
1 | cd server
2 | python image_vectorizer.py
```

- Start the server as follows:

```
1 | python rest_server.py
```

Then you can visit the website: <http://127.0.0.1:5000/>

## Task Requirements

The requirements of an image search task is as follows:

1. **Formulation:**
  - It contains an input box to upload an image.
  - Users can preview the query image in the searching window.
2. **Initiation:** It has a search button.
3. **Preview:** Provide an overview of the results.
4. **Refinement:** Allow changing search parameters when reviewing results.
5. **Use:** Users can take some actions, like add selected images to collection.

## Functionality

### Formulation

- Upload the image



- Preview the image uploaded

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上传图片

搜索



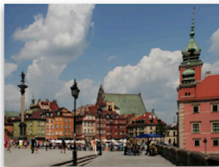
## Initiation

Click the search button for result:

搜索

## Preview:

- The overview of the results:



保存图片



保存图片



保存图片



保存图片



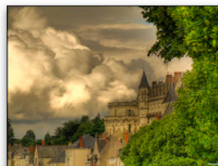
保存图片



保存图片



保存图片



保存图片



保存图片

## Refinement

Change searching parameters.

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## Use:

- Save an image:

