The VGG Image Classification (VIC) Engine

- Performs a visual search over a dataset of images with categories
- Automatically computes an image classifier to find images matching your query within the dataset
- Input can be a text string or an image
- It can be used to make your images searchable
How to make your images searchable

1. Start VIC
2. Remove previous demo images (if present) and copy your own
3. Login to the administrative tools
4. Stop the backend engine
5. Remove previous backend data
6. Start the processing of your images
7. Wait for the image processing pipeline to finish
8. Start the backend engine
9. Search your images!
1. Start VIC

Start VIC using *Kitematic* as described in

**Mac**: http://www.robots.ox.ac.uk/~vgg/software/vic/docker_deployment_mac.html

**Windows**: http://www.robots.ox.ac.uk/~vgg/software/vic/docker_deployment_win.html

**Linux**: Start VIC using the command-line or the helper scripts, as described in

http://www.robots.ox.ac.uk/~vgg/software/vic/docker_deployment_linux.html
2. Copy your own images

Remove any previous file in [MY_FOLDER]/vgg/mydata/images/mydataset and [MY_FOLDER]/vgg/mydata/metadata/mydataset and copy your own (WARNING: Remove the contents of the folders but not the folders themselves)
3. Login

Use the “Sign In” link in the top-left corner of the VIC home page to go to the login page. If you are already signed in, use the “Admin Tools” link and go to Step 4.

Use the credentials

user: admin
passwd: vggadmin
4. Stop the image classification engine

Go to the Manage Backend Service tab and Stop the backend service
5. Remove previous backend data

If you removed files as in step #2, you should remove the existent backend data. Go to the Manage Backend Data, and under CLEAR BACKEND DATA make sure the Input Type is set to Positive Images and then press the Clear button. This is NOT necessary if you are just adding new images.
6. Start the processing of your images

Go to the Manage Backend Data, and under DATA INGESTION make sure the Input Type is set to Positive Images and then press the Ingest button.
7. Wait for the image processing pipeline to finish

Wait until your images are processed (100 images if you used the sample images)
8. Start the image classification engine

Go to the Manage Backend Service tab and Start the backend service
9. Go back to the search page

Click on the Home link to go back to the main page and start a query!
Remember to Stop VIC

Stop VIC using *Kitematic* as described in

**Mac**: http://www.robots.ox.ac.uk/~vgg/software/vic/docker_deployment_mac.html  
**Windows**: http://www.robots.ox.ac.uk/~vgg/software/vic/docker_deployment_win.html

For Linux: Stop VIC using the command-line or the helper scripts, as described in  
http://www.robots.ox.ac.uk/~vgg/software/vic/docker_deployment_linux.html
Data Ingestion Tips

1. If `[MY_FOLDER]/vgg/mydata/images/mydataset` is empty or if you just want to **ADD A FEW IMAGES** to your dataset, you can also press the “Choose Files” button shown in step #6, and select manually the files you want to add. Note that you can only select files, not folders. The new files will be automatically copied to `[MY_FOLDER]/vgg/mydata/images/mydataset`.

2. If you want to add a large number of images, and you choose the method described in step #6 for the data ingestion, you will experience a huge delay before the screen changes to that in step #7. This is because the source directory is scanned to acquire the paths to the files. If the dataset is too large you will get a timeout message from your Internet Browser. To avoid this, create a text file (with extension “.txt”) with the paths to your image files, relative to the folder `[MY_FOLDER]/vgg/mydata/images/mydataset`. After that use the “Choose Files” button shown in step #6 and specify the text file you created. This will avoid the folder scanning and the data ingestion will start immediately.
Metadata Tips

1. The format of the metadata file is described in the README file at https://gitlab.com/vgg/vgg_frontend