

Transfer Learning for Custom Datasets in the Small-Data Regime for Basement


Milestone 1: Environment Preparation

First step is to install a data anotation tool CVAT locally in our laptop.The document below cointains instruction for insalling on MAC OS with following system specifictions :

Processer	6-Core Intel i7
Processer Speed	2.6 Ghz
Memory	16GB
System Version	macOS 12.4
Kernal Version	Darwin 21.5.0

Quick installation guide

Install and run Docker Desktop on Mac

1. Downloaded **Docker.dmg** from this [link](#)
2. Double-click **Docker.dmg** to open the installer, then drag the Docker icon to the Applications folder.
3. Double-click **Docker.app** in the **Applications** folder to start Docker.
4. The Docker menu () displays the Docker Subscription Service Agreement window. Select **Accept** to continue.
5. Docker Desktop starts after you accept the terms.

Install Git

For me I already had **git** installed. If you don't have it installed already you can find instructions [here](#).

Download and install Google Chrome

Google Chrome is the only browser which is supported by CVAT.

1. Go to [Download Chrome](#)
2. Click Download Chrome.
3. Double-click **GoogleChrome.dmg** to open the installer, then drag the Google Chrome icon to the Applications folder.
4. Double-click **GoogleChrome.app** in the **Applications** folder to start Google Chrome.

Installing CVAT

1. Open a terminl Window.
2. Clone CVAT source code from the [GitHub repository](#) with Git. The following command will clone the latest develop branch:

```
git clone https://github.com/opencv/cvat
```

3. Move into CVAT folder .

```
cd cvat
```

4. Run docker containers. It will take some time to download the latest CVAT release and other required images like postgres, redis, etc. from DockerHub and create containers.

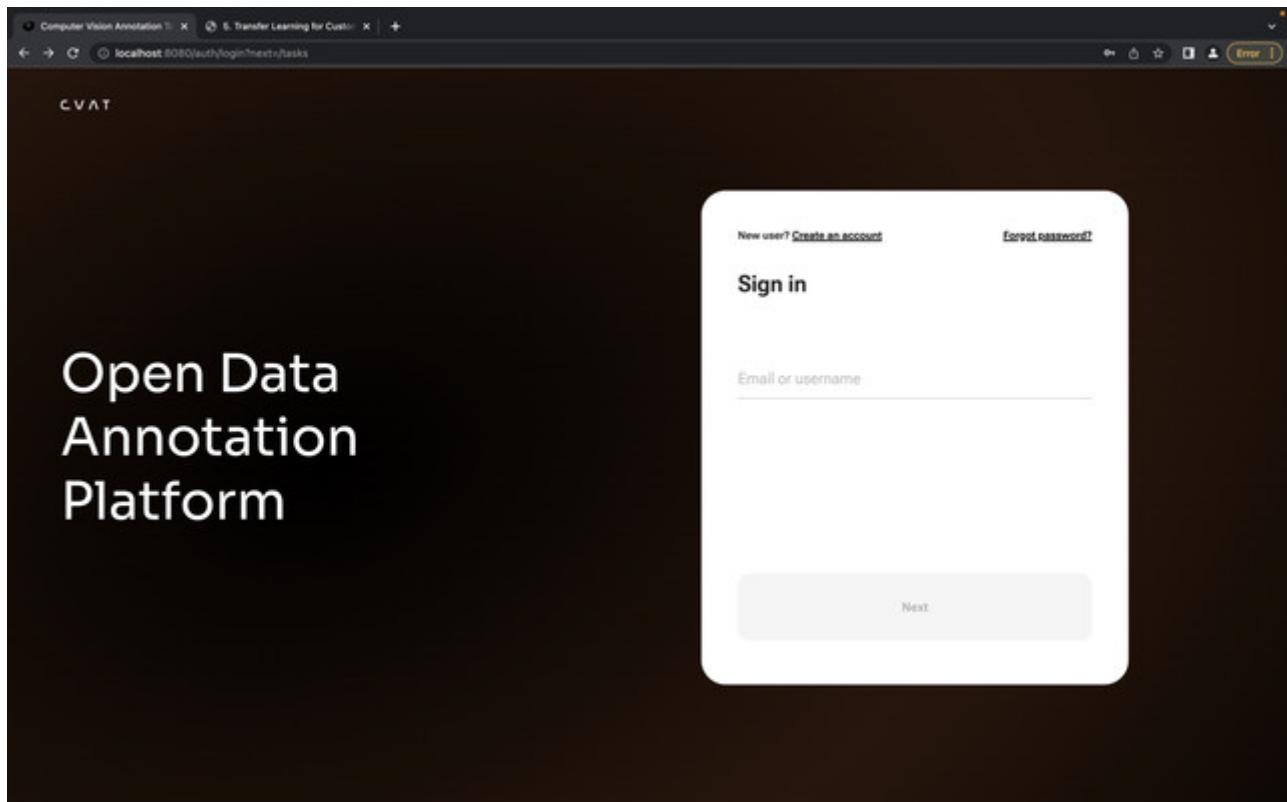
```
docker-compose up -d
```

5. You can register a user but by default it will not have rights even to view list of tasks. Thus you should create a superuser. A superuser can use an admin panel to assign correct groups to other users. Please use the command below:

```
docker exec -it cvat_server bash -ic 'python3 ~/manage.py createsuperuser'
```

6. Choose a username and a password for your admin account.
7. Open the installed Google Chrome browser and go to localhost:8080. Type your login/password for the superuser on the login page and press the *Login* button. Now you should be able to create a new annotation task.

Login Page



Home Page

