custom environments

Creating the environment

1. Open a new Terminal

2. in case the environment should be available permanently

```
conda config --add envs_dirs /home/jovyan/.conda_envs
```

3. create environment with conda

```
conda create --name myenv
```

4. initialize bash shell

```
conda init bash
```

5. restart shell

```
source ~/.bashrc
```

6. activate environment:

```
conda activate myenv
```

Activating an environment

these steps need to be executed to activate an environment

1. initialize bash shell

```
conda init bash
```

2. restart shell

```
source ~/.bashrc
```

3. activate environment:
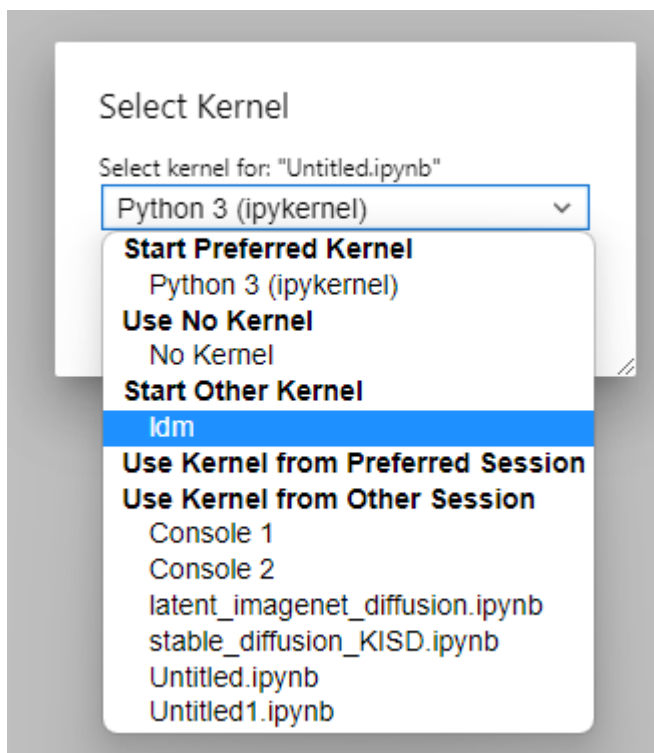
```
conda activate myenv
```

Exporting environment to custom Kernel image

First, **activate** your virtual environment *previous step* and install ipykernel:

```
pip install --user ipykernel
```

We need to **manually add the kernel** if we want to have the virtual environment in the Jupyter Notebook. That is why we need to add it by running this code.

```
python -m ipykernel install --user --name=myenv
```


when creating a new notebook, you can choose your new kernel image

If you have finished with the virtual environment and did not need it anymore, you could **remove** it using this command:

```
jupyter kernelspec uninstall myenv
```

Installing packages in user space

So that pip installs don't get lost after restart

```
pip install --user package_name
```