kernda

Jupyter kernels + conda.

A match made ...out of necessity

Eric Dill Jupyterday Triangle 2018-11-13

!conda

Why isn't it working in Jupyter?

I have a scikit-learn conda environment

```
conda create scikit-learn ipykernel -n sklearn
 conda info -e
 conda environments:
#
                        /Users/edill/miniconda
base
                       /Users/edill/miniconda/envs/sklearn
sklearn
```

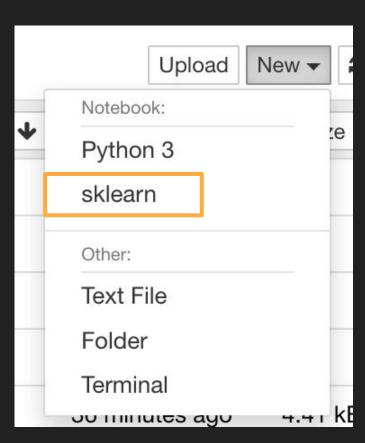
I have a scikit-learn Jupyter kernel

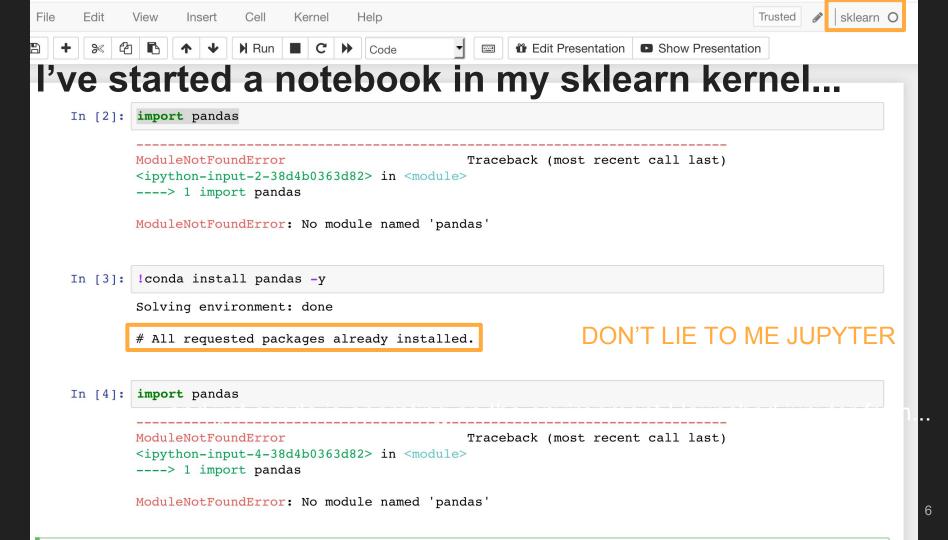
```
Installed kernelspec sklearn in
/Users/edill/Library/Jupyter/kernels/sklearn

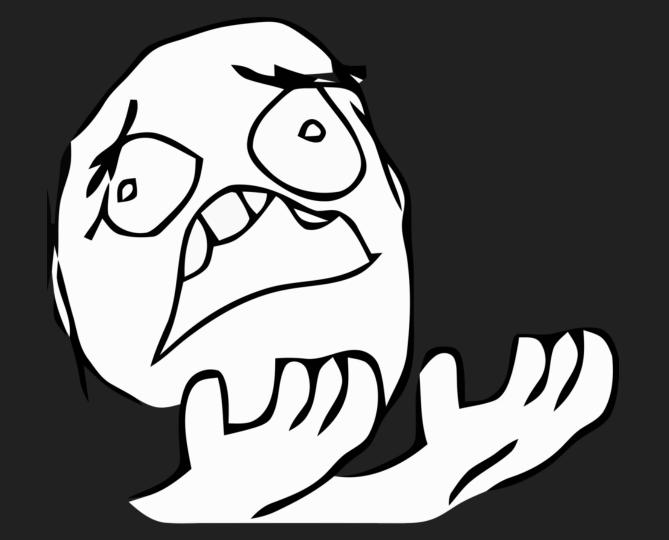
$ jupyter kernelspec list
Available kernels:
    python3 /Users/edill/Library/Jupyter/kernels/python3
    sklearn /Users/edill/Library/Jupyter/kernels/sklearn
```

\$ python -m ipykernel install --user --name sklearn

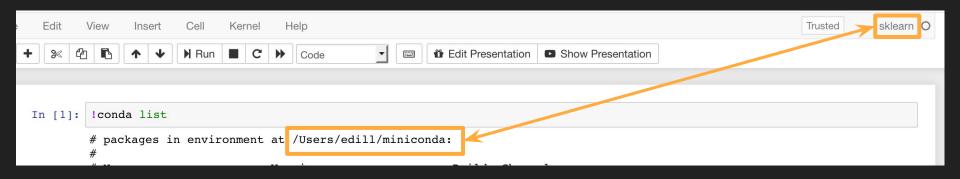
I've launched the notebook server





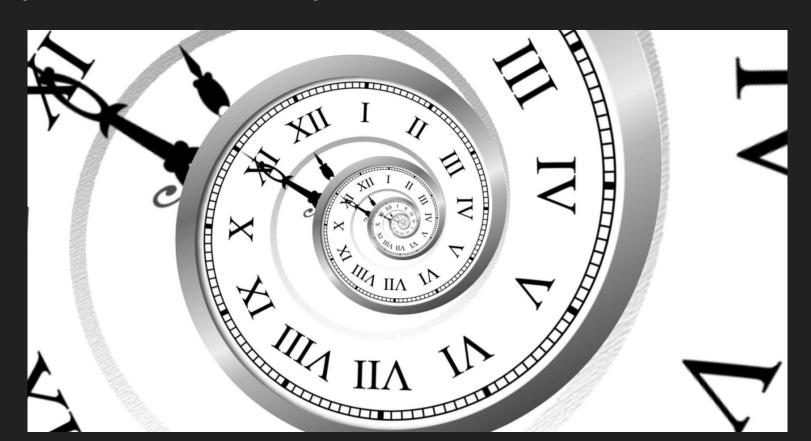


If you're lucky...



...you'll realize the problem immediately

If you're not so lucky...



So ...why isn't !conda working?

```
cat /Users/edill/Library/Jupyter/kernels/sklearn/kernel.json
"argy":
"/Users/edill/miniconda/envs/sklearn/bin/python",
 "ipykernel launcher",
                                         Ah. Of course conda isn't
 "-f",
                                         working. There's no source
 "{connection file}"
                                         activate sklearn in here!
"display name": "sklearn",
"language": "python"
```

So I just need to activate my conda env?

Ok I'll just use the Jupyter terminal

```
jupyter
 edill@0557 B -/dev/spylon master B conda activate sklearn
(sklearn) edill@0557 3 ~/dev/spylon master
                                                conda install pandas
Solving environment: done
## Package Plan ##
  environment location: /Users/edill/miniconda/envs/sklearn
  added / updated specs:
    - pandas
The following packages will be downloaded:
    package
                                          build
                              py37h6440ff4 0
    pandas-0.23.4
                                                        9.2 MB
    pytz-2018.7
                                                        244 KB
                                                        9.5 MB
                                         Total:
The following NEW packages will be INSTALLED:
    pandas: 0.23.4-py37h6440ff4 0
    pytz: 2018.7-py37 0
Proceed ([y]/n)?
```

I'm lazy

Hawill spend hours writing code to prevent 15 seconds of manual clicking

I will try and convince someone else to spend hours writing code to prevent 15 seconds of my manual clicking

□ thanks Peter Parente! □

kernda!

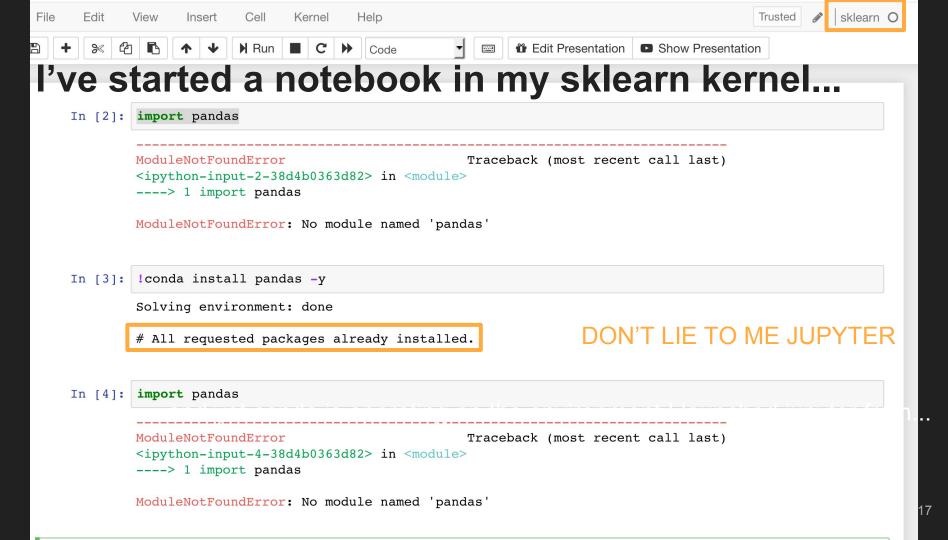
Jupyter <u>kern</u>el + co<u>nda</u>

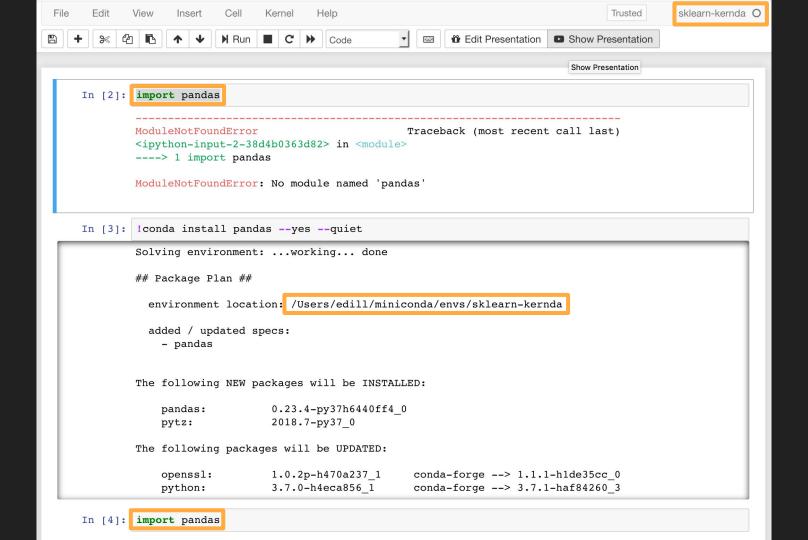
Before kernda

```
"argv": [
"/Users/edill/miniconda/envs/sklearn/bin/python",
"-m",
"ipykernel launcher",
"-f",
"{connection file}"
"display name": "sklearn",
"language": "python"
```

After kernda

```
"arqv": [
   "bash",
   "-c",
   "source \"/Users/edill/miniconda/bin/activate\"
\"/Users/edill/miniconda/envs/sklearn-kernda\" && exec
/Users/edill/miniconda/envs/sklearn-kernda/bin/python -m
ipykernel launcher -f '{connection file}' "
  "display name": "sklearn-kernda",
  "language": "python"
```





Thanks to Peter Parente, primary author!

conda install -c conda-forge kernda

https://github.com/Valassis-Digital-Media/kernda