

Setup on GreenPlanet and TSCC

Login to the remote clusters and then do the following:

Install Anaconda

While in your HOME directory

Download the Anaconda installation file

```
wget https://repo.continuum.io/archive/Anaconda3-4.3.1-Linux-x86\_64.sh
```

Install Anaconda (this may take 15-30mins)

```
bash Anaconda3-4.3.1-Linux-x86_64.sh -b
```

When it asks you to add Anaconda to your bash shell PATH, select **YES**.

Check that Anaconda installed properly by running the command

`python` . It's output should look something like:

```
Python 3.6.0 |Anaconda 4.3.0 (64-bit)| (default, Dec 23 2016  
[GCC 4.4.7 20120313 (Red Hat 4.4.7-1)] on linux  
Type "help", "copyright", "credits" or "license" for more in  
>>>
```

Install some extra packages into a virtual

environment

All our software needs to be run on **Python 3.5** so we will create a virtual environment and install some extra packages we will need down the line.

Create a virtual environment called `py35` with:

```
conda create -n py35 python=3.5
```

Activate the virtual environment with:

```
source activate py35
```

The terminal will look like something below to indicate you're in the virtual environment:

```
[limn1@tscc-login2 ~]$ source activate py35  
(py35) [limn1@tscc-login2 ~]$
```

Now, install the extra packages we will need down the line (this could take another 15mins):

```
conda install numpy matplotlib  
conda install nb_conda -c conda-forge  
conda install -c omnia -c omnia/label/dev -c mobleylab openm
```

Install OpenEye toolkits

While still in your py35 virtualenv

Make a license folder in your **HOME** directory:

```
mkdir licenses
```

Your path should look like `/home/USERNAME/licenses`.

Upload/copy the `oe_license.txt` file into the `licenses` folder.

Add to your `~/.bash_profile` the following line:

```
export OE_LICENSE='$HOME/licenses/oe_license.txt'
```

Install the OpenEye toolkits with:

```
pip install -i https://pypi.anaconda.org/OpenEye/simple OpenEye-  
toolkits
```

Verify the installation with:

```
oecheminfo.py
```

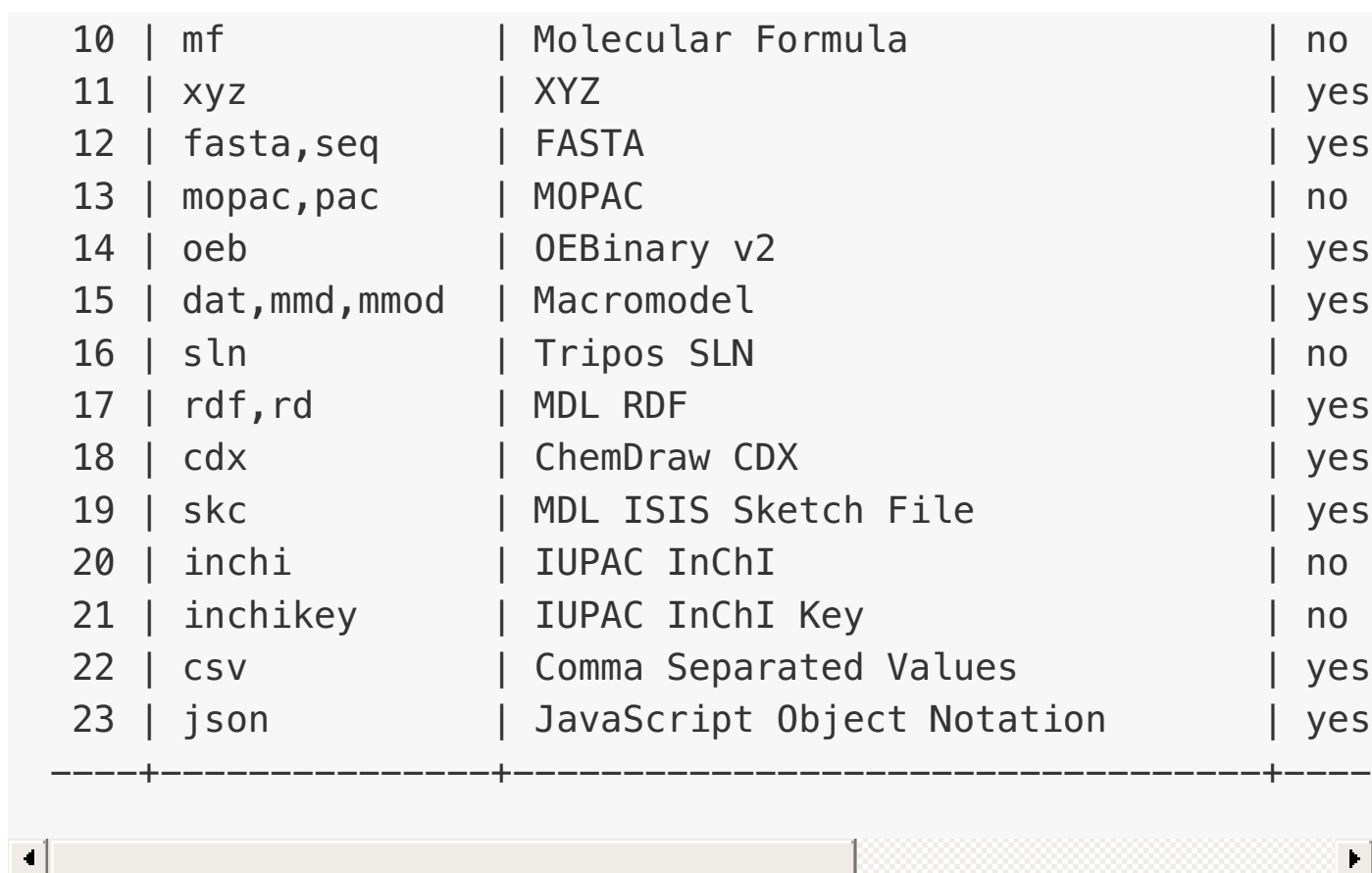
The output should look something like:

```
Installed OEChem version: 2.1.1 platform: linux-g++4.x-x64 b
```

```
Examples: /home/limn1/anaconda3/envs/dev/lib/python3.5/site-  
Doc Examples: /home/limn1/anaconda3/envs/dev/lib/python3.5/s
```

code	ext	description	read
1	smi	Canonical stereo SMILES	yes
2	mdl,mol,rxn	MDL Mol	yes
3	pdb,ent	PDB	yes
4	mol2,syb	Tripos MOL2	yes
5	usm	Non-Canonical non-stereo SMILES	yes
6	ism,isosmi	Canonical stereo SMILES	yes
7	mol2h	MOL2 with H	yes
8	sdf,sd	MDL SDF	yes
9	can	Canonical non-stereo SMILES	yes

10		mf		Molecular Formula		no
11		xyz		XYZ		yes
12		fasta,seq		FASTA		yes
13		mopac,pac		MOPAC		no
14		oeb		OEBinary v2		yes
15		dat,mmd,mmod		Macromodel		yes
16		sln		Tripos SLN		no
17		rdf,rd		MDL RDF		yes
18		cdx		ChemDraw CDX		yes
19		skc		MDL ISIS Sketch File		yes
20		inchi		IUPAC InChI		no
21		inchikey		IUPAC InChI Key		no
22		csv		Comma Separated Values		yes
23		json		JavaScript Object Notation		yes
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[Recommended] Install Bash on Windows (Locally)

On your local Windows laptop

Follow the guide linked [here](#)

If the BASH terminal guide works and you can successfully use BASH commands (i.e `cd` , `ls`). Do let me know, this is a pretty big deal and will help other people who aren't on MacOS/Linux. Now, try repeating the steps above to see if we can get Anaconda/OpenEye installed on your local machine too.

If you run into too many issues along the way and it's become a headache, don't worry about it. I'm not requiring you do this, but this may help alleviate some issues when running on a Windows machine

and prevent problems when trying to translate between running on different OS. This feature is still in BETA and I have not tried it out myself. So I'm really hoping it works out on your machine. This will replace PuTTY so that your terminal can more closely mimic the command terminal found on Linux/macOS machines or when you login to remote clusters.