


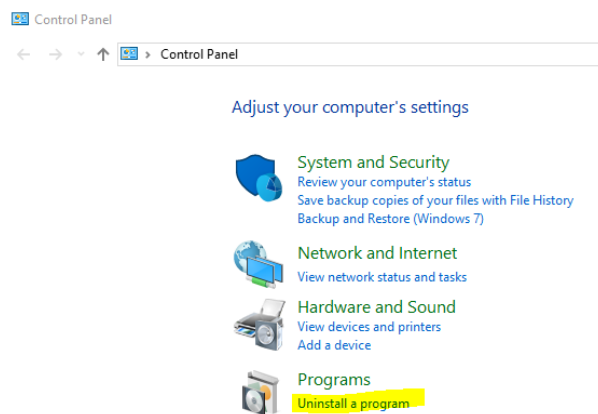
TROUBLE SHOOTING CONFLICTS BETWEEN ARCGIS PRO'S DEEP LEARNING PACKAGE AND GOOGLE GEEMAP

The ArcGIS Pro Deep Learning package has a conflict with certain open-source Python packages such as Google's geemap. A series of tests indicate the ArcGIS Pro Deep Learning package and geemap cannot co-exist in the same Python environment. Therefore, it's recommended install these in two separate Python environments.

If you have already installed the ArcGIS Pro Deep Learning package from a zip file downloaded from its GitHub repository (<https://github.com/Esri/deep-learning-frameworks>), it's almost certain the deep learning package was installed under the base default Python environment. We will have to manually uninstall it before we can install other packages.

Part 1. Uninstall arcgis pro deep learning package from control panel


1. Go to windows search box  and type in control panel.
2. Launch the Control Panel
3. Navigate to Programs--Uninstall a program.



4. Next scroll through the window to find arcgis pro deep learning
5. Right-click the item and select Uninstall/Change. Follow the prompts choosing to remove the software.

Part 2, Clean the problematic cloned environment

There are cases where you might have already cloned the base Python environment containing the deep learning package. This will conflict with geemap. Following these steps will remove the problematic environment.

6. Go to  Start – ArcGIS – Python Command Prompt (right-click) – More – Run as Administrator (you may need to type in your administrator password)
7. When the python prompt appears, type `conda env list`
8. Press ENTER

You will likely see something like the following figure. Screen capture and save or print this as we will refer to it later.

```
(arcgispro-py3_clone) C:\Users\Di\AppData\Local\ESRI\conda\envs\arcgispro-py3_clone>conda env list
# conda environments:
#
base                C:\Program Files\ArcGIS\Pro\bin\Python
arcgispro-py3       C:\Program Files\ArcGIS\Pro\bin\Python\envs\arcgispro-py3
arcgispro-py3_clone * C:\Users\Di\AppData\Local\ESRI\conda\envs\arcgispro-py3_clone
arcgispro_py3_dl    C:\Users\Di\AppData\Local\ESRI\conda\envs\arcgispro_py3_dl
```

Use the environment list to help to identify which of the python environments you want to remove.

9. Make sure the active environment is the ArcGIS Pro default environment (NOTE: the active environment is designated by the *). If you are not sure, you can use the following command `proswap arcgispro-py3`.

Now the active environment should be `arcgispro-py3`.

10. To remove a cloned environment (`arcgispro-py3_clone`) use the command:
`conda remove --name arcgispro-py3_clone -all`

Type “y” if prompt. Wait a few minutes while the removal process runs.

11. Next, type `conda env list` again at the Python prompt to make sure that `arcgispro-py3_clone` is NOT shown in the environment list.

12. Go to the screen capture we saved earlier.

13. Find the directory corresponding to the cloned environment we just deleted.

14. Use windows file explorer to navigate to this folder

`C:\Users\[YOUR USERNAME]\AppData\Local\ESRI\conda\envs\`

Be sure this folder does not contain an `arcgispro-py3_clone` folder. If it does, manually delete it.

Your computer is now clean and ready to get a fresh start making a new cloned environment.

Please refer to the Cloning the Deep Learning Environment document at

https://giscenter.isu.edu/pdf/PDF_NASA_RECOVER2/CloningDeepLearningEnvironment.pdf if you are interested in setting up a separate python environment for the ArcGIS Deep Learning Package.