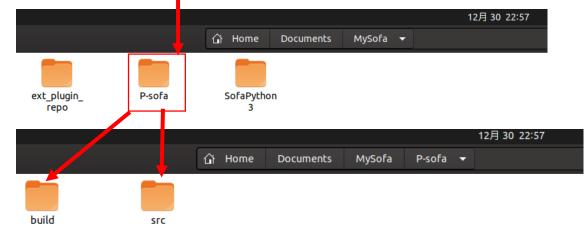
First, I install sofa for Ubuntu 19.10 by following this link:

https://www.sofa-framework.org/community/doc/getting-started/build/linux/

and your video suggestion on yotube:

https://www.youtube.com/watch?v=5pbT49t9M_k&t=4s

The installed sofa is in this folder include 2 small folders: build and src



Then, I applied out of tree build by following this link:

https://github.com/SofaDefrost/plugin.SofaPython3/blob/master/README.md

Out-of-tree build

This plugin should compile with out-of-tree builds. You might need to add the Sofa's installation path to the CMake prefix path. If you compiled Sofa in directory *\$SOFA_ROOT/build*, consider doing an install step (make install, ninja install, etc.) and adding this installation path (example cmake -DCMAKE_PREFIX_PATH=\$SOFA_ROOT/build/install . .).

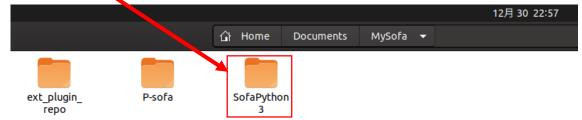
Changing the python path

The compilation of SofaPython3 plugin and bindings are tied to the python core library found during the CMake stage. To change the python version used for the compilation, you can either:

1. Provide the python executable path	h with Python_EXE	CUTABLE cmake	-DPython_EXECUTABLE=	/usr/loca
/bin/python3				
2. Provide the python root path with	Python_ROOT_DIR	cmake -DPytho	n_ROOT_DIR=/usr/local	

To see all the hints that can be provided to CMake, see the official CMake documentation on Python : https://cmake.org /cmake/help/latest/module/FindPython.html

The plugin.SofaPython3 is put in this folder (next to the Sofa folder:P-sofa)



However, when open the SofaPython3 folder, there are only smaller folders: Cmakefiles and cmakeCache.txt

					12	月 30 22:39	
		습 Home	Documents	MySofa	SofaPython3	build 👻	
CMakeFiles	CMakeCach e.txt						

Then, by following the instruction in out of tree build for installing plugin.SofaPython3, I change the path in Cmake, there is no error when I clicked configure and generate.

	CMake 3.13.4 - /home/ho-lab/Documen	its/MySofa/P-so	ofa/build		_ 0 😣
<u>F</u> ile <u>T</u> ools <u>O</u> ptions <u>H</u> elp					
Where is the source code:	/home/ho-lab/Documents/MySofa/P-sofa/src				Browse <u>S</u> ource
Where to build the binaries:	/home/ho-lab/Documents/MySofa/P-sofa/build				• Browse <u>B</u> uild
Search: cmake -DPython_EX	ECUTABLE	Grouped 🗸	Advanced		Remove Entry
Name	Value				
cmake -DPython_EXECUTAB	LE /usr/bin,	n/python3			
	CMake 3.13.4 - /home/ho-lab/Document	ts/MySofa/P-so	ofa/build		🛛
<u>F</u> ile <u>T</u> ools <u>Options</u> <u>H</u> elp					
Where is the source code:	/home/ho-lab/Documents/MySofa/P-sofa/src				Browse <u>S</u> ource
Where to build the binaries:	/home/ho-lab/Documents/MySofa/P-sofa/build				Browse <u>B</u> uild
Search: cmake -DCMAKE_PF	REFIX_PATH	Grouped 🗸	Advanced	🕈 Add Entry	Remove Entry
Name	Value				
cmake -DCMAKE_PREFIX_P/	ATH /home/h	ho-lab/Documen	nts/MySofa/	SofaPython3	
1	CMake 3.13.4 - /home/ho-lab/Documen	ts/MySofa/P-so	ofa/build		_ 0 😣
<u>F</u> ile <u>T</u> ools <u>O</u> ptions <u>H</u> elp)				
Where is the source code:	/home/ho-lab/Documents/MySofa/P-sofa/src				Browse <u>S</u> ource
Where to build the binaries:	/home/ho-lab/Documents/MySofa/P-sofa/build				Browse <u>B</u> uild
Search: cmake -DPython_R	OOT_DIR	Grouped V	Advanced	🕈 <u>A</u> dd Entry	Remove Entry
Name	Value				
cmake -DPython_ROOT_DI	R /usr/bin	1			

Finally, I ran the sofa in the folder P-sofa/../bin/runSofa which initially installed sofa, and load my calculation. The error appeared as follows:

[INFO]	[SceneCheckerVisitor] Validating node "root" with checks: [SceneCheckAPIChange, SceneCheckDuplicatedName, SceneCheckMissingRequiredPlugin, SceneCheckUsingAlias]
[INFO]	[SceneCheckAPIChange] No 'APIVersion' component in scene. Using the default APIVersion level: 17.06
	[PythonScript] ImportError: No module named Core
	"simulationDragForce.py", line 9, in <module></module>
imp	ort Sofa.Core
	[SofaPython] Script (file:simulationDragForce) import error
	[SofaPython] scene script load error.
LWARNIN	G] [RealGUI] Failed to load /home/ho-lab/Documents/Pho.Nguyen/Soft eel/simulationDragForce.py