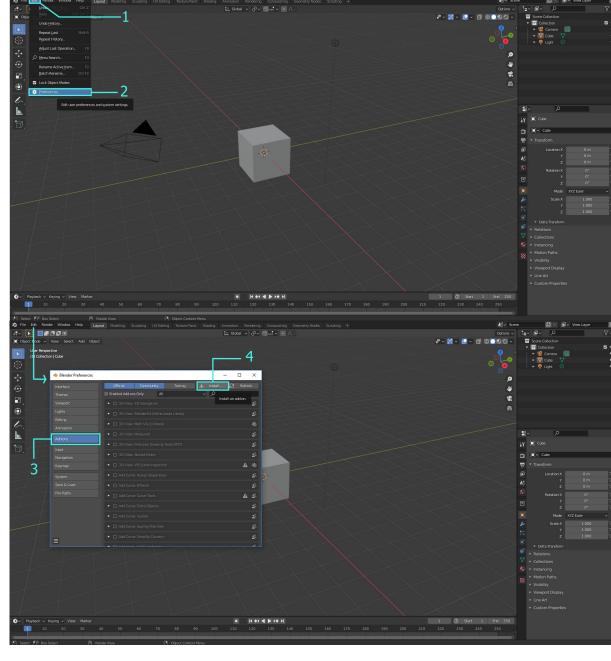
Blender Freed Add-On

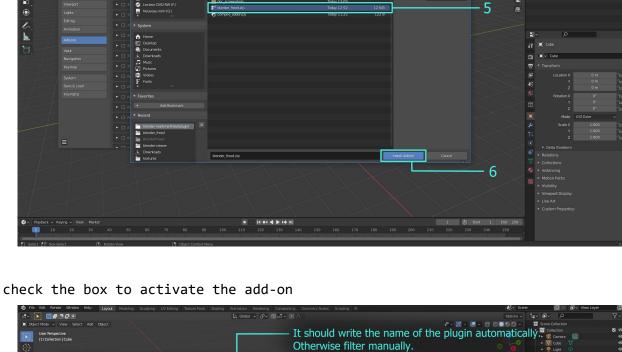
I - Installation

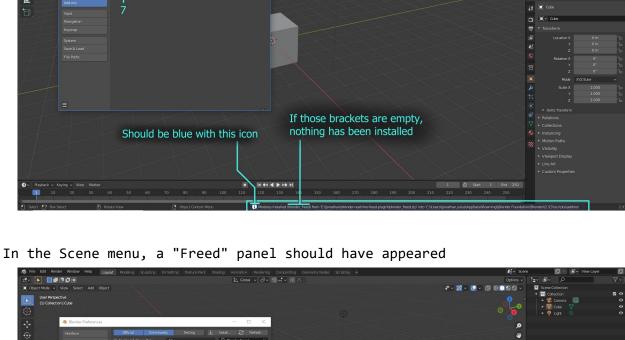
in Blender, go to edit → preferences → add-on



select the zip file and click "install add-on"

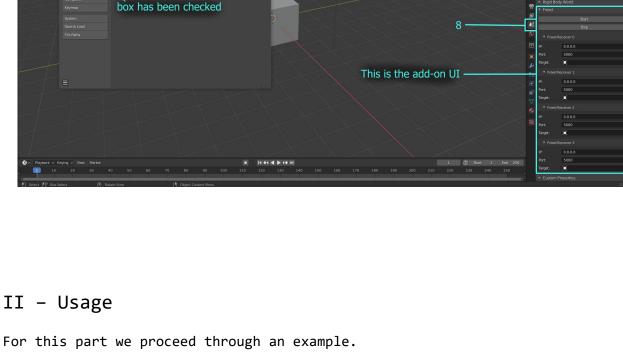
click the "install" button





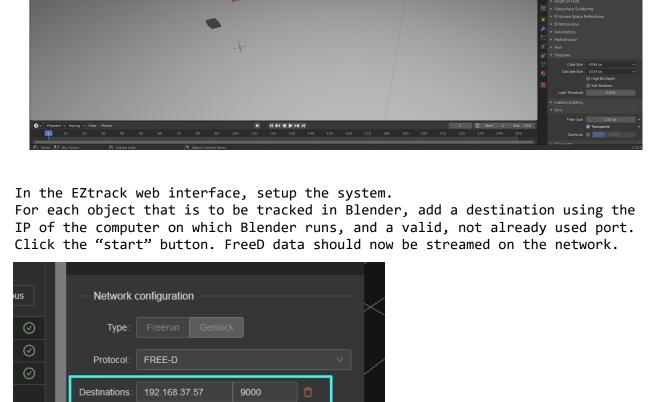
The plugin should have appeared here

Use this button to uninstall



for scenery:

Let there be a camera. We add two base stations to show FreeD data can be used on other objects than cameras in this add-on. There is also a floor and a light



The Blender add-on can only listen to 4 FreeD sources for now. For this example, the camera tracker data, calibrated to the camera sensor, is

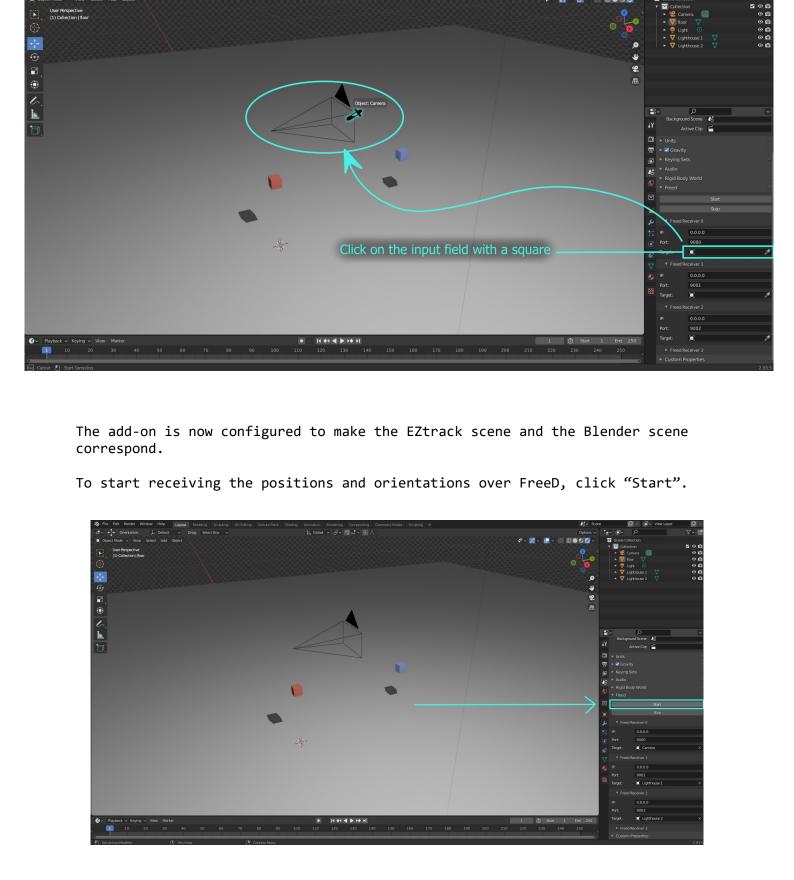
sent on port 9000. The Master base station is on 9001 and the auxiliary

Put the same port as in EZtrack Same for the other receivers

We don't use receiver 3 in this example

lighthouse on 9002. In blender, navigate to the Scene menu and fill in the fields for each FreeD Receiver. Each receiver should correspond to a unique sender in EZtrack. Go to the Scene menu Can stay 0.0.0.0 in most cases. Points to localhost

192.168.37.183 192.168.37.33



Note how the values get keyframed

All linked objects take the position and orientation of the EZtrack rigs:

Values are updated in real-time. A few options if there is lag: - switch to viewport shading - put all elements non-essential to the pre-visualisation in collections in which essential elements are not. Deactivate those collections (not just hide, check the box next to the eye on the right) - have low-poly geometry. Use a multi-res modifier on minimal subdivision setting. If this is not enough, use a low-poly proxy object from which you can later transfer the animation onto the real object. Note that the position and rotation are keyframed automatically at each update. This means that it is possible to record the tracking by clicking the play button. The tracking will thus be synchronised with the animations happening in the scene. Beware however, for animation can greatly reduce performance. If the viewport runs bellow an average of 24fps, it might be necessary to disable some of the animations during tracking, especially on dense meshes. Shape keys have a particularly strong impact. Unbaked physics simulations would be foolish.

To stop tracking, hit the "Escape" key, or click the "Stop" button in the UI.

Stop receiving FreeD data.

9000

0.0.0.0

▼ Freed Receiver 1

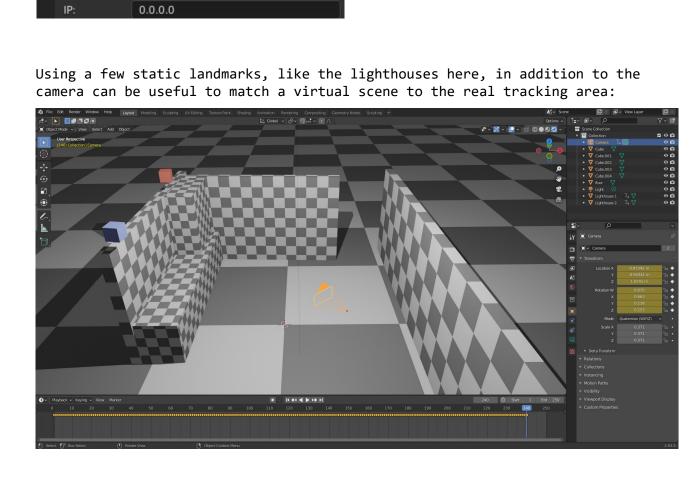
Camera

IP:

Port:

Target:

Port: 9001 [■] Lighthouse 1 Target: Freed Receiver 2



III - Compilation Run compile_addon.py from the root of the git repository. This will generate a zip file which can be installed in Blender.