Workflow to create OpenSim .trc and .mot files using MOtoNMS GUI

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1. Folder organization, location of c3d files

MyData\InputData\Subject_name\Session_name

- Static.c3d
- Walk 1.c3d
- Walk 2.c3d
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- 2. Create laboratory set up file (if not yet available) in notepad++
 - 1st axis: direction of motion
 - · 2nd axis: vertical axis
 - 3rd axis: right hand rule
 - + define type and orientation of force plates
- 3. Create markerset set up file (if not available) in notepad++
- 4. Create EMG protocol set up file (if not available) in notepad++
- 5. Create acquisistion.xml file
 - Set MATLAB path to src\AcquisitionInterface folder → Run mainAcquisitionInterface.m
 - · Select folder which contains c3d files
- 6. Create mat files
 - Set MATLAB path to src\C3D2MAT_btk folder → Run C3D2MAT.m
 - Select folder which contains c3d files
- 7. Create EMG label file using notepad++ (SetupFiles\DataProcessing\EMGsLabels)
- 8. Create OpenSim files

Dynamic Files

- Set MATLAB path to src\DataProcessing folder → Run ElaborationInterface.m
- · Select folder which contains c3d files

Static Files

- Set MATLAB path to src\StaticElaboration folder → Run StaticInterface.m
- Select static c3d file