Seismic School App

Dynamo Scripts User Manual

Bryden Wood

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GENERAL NOTES

FILES INCLUDED

3 dynamo scripts:
1. Seismic School App - Import_01.dyn
2. Seismic School App - Import_02.dyn
3. Seismic School App - Import_03.dyn

Revit Project File Template: Seismic School App - Project Template
Low-Res Clusters Folder (18 - Revit Families)
Line Types Folder (33 - Revit Families)

REVIT/DYNAMO SETTINGS

Make sure to have the following versions installed:

- Revit: 2018
- Dynamo: 2.0.2

Download the following packages for Dynamo:

- Clockwork v.2.1.2
- LunchBox v.2018.7.6
- archilab v.2019.2.15
- spring nodes v.202.1.0
- BlackBox v.2016.8.5

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GENERAL NOTES

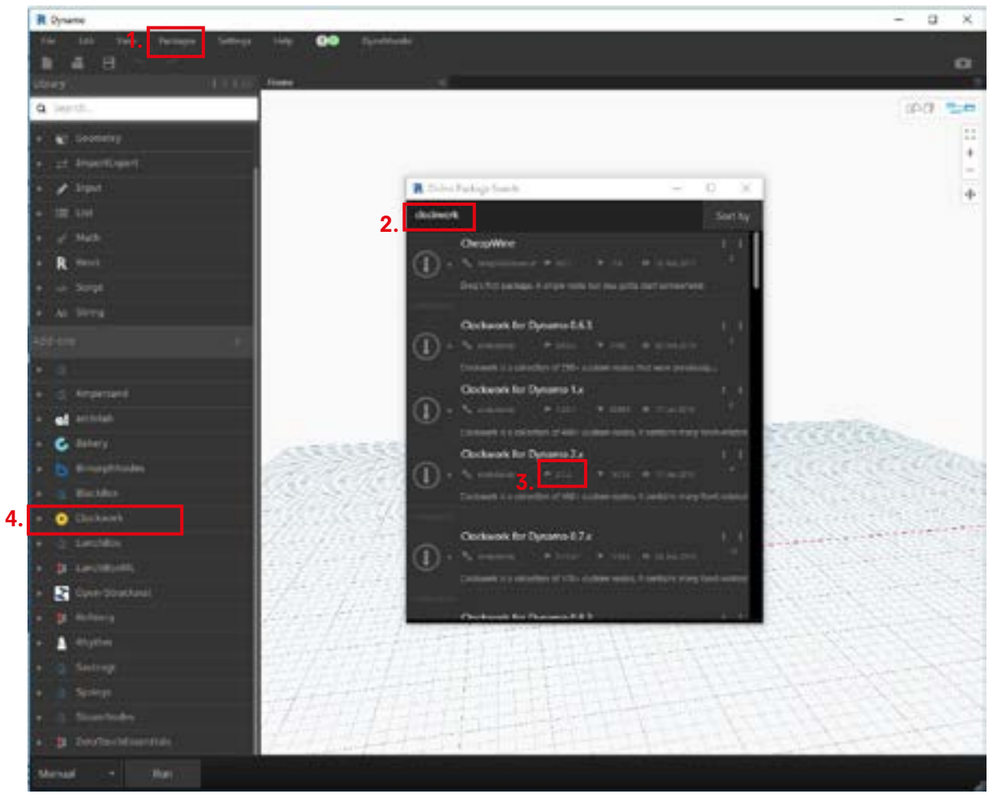
DYNAMO SETTINGS

Before running the script, please read the following instructions:

1. Process to install new Dynamo packages

1. From Dynamo Menu > Packages (refer to 1 in the picture below) > Search for a Package > Type in the name of the package (refer to 2 in the picture below) > Select the flag icon (refer to 3 in the picture below) > Install the requested version.
2. Close and reopen Dynamo.

The new package should appear in the left part of the menu in the section Add-ons (refer to 4 in the picture below).
Please verify the version of the packages installed: from Dynamo Menu > Packages > Manage Packages.



2. Run Model Setting

Set the Run Model to “MANUAL” as shown in the picture below. Everytime a script is run press the botton “RUN”.

3. Geometry working range

By default it should be set on “LARGE”.
Please verify this setting: from Dynamo Menu > Settings > Geometry scaling > Large > Apply changes

4. Preview

By default it should be set on “OFF”.
Please verify this setting: from Dynamo Menu > View > Background 3D preview > Available pre-views > Turn off Revit background preview.

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ORGANISATION OF A DYNAMO SCRIPT

All the documents produced by Bryden Wood - Creative Technology Team present this legend in the left part of the script.
Please read carefully before running the script.

Document information

All the information about the authors, dynamo file, description and comments are contained in this part.

Document dependencies

The associated revit files (if required) and the dynamo packages necessary to run the script are contained in this part.

Organisation of the script

All scripts are organised in groups of components, whose function is identified by the following colours:

- INPUTS: green group indicates input. **This component can be changed by the user.**
- WORKING/PROCESS: Blue group indicates the working of the script. **No changes can be made by the user.**
- OUTPUTS: Yellow group indicates relevant outputs. **No changes can be made by the user unless specified.**
- CHECKING: Orange indicates checking nodes to ensure the script has run correctly. **To be checked by the user at the end of each process.**
- GRAPHIC OUTPUT: Purple group indicates the graphic output as preview in Dynamo. **No changes can be made by the user unless specified.**

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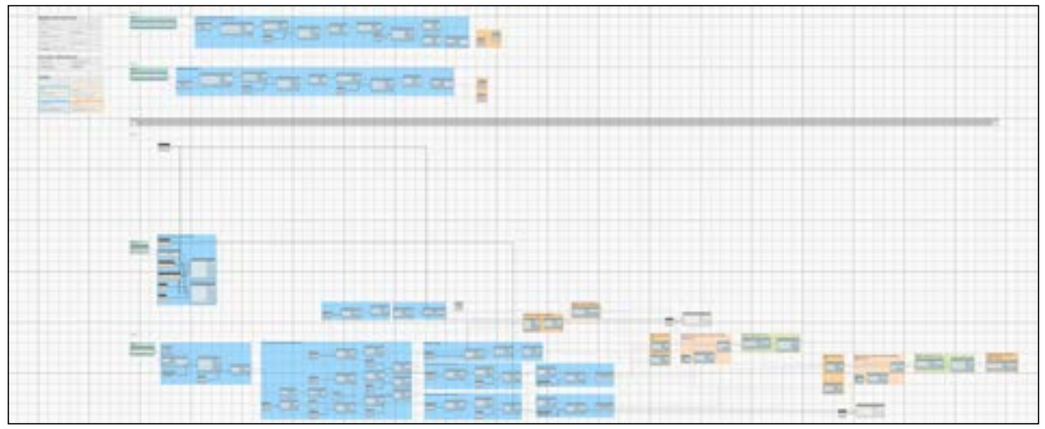
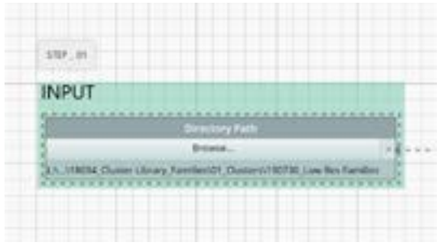
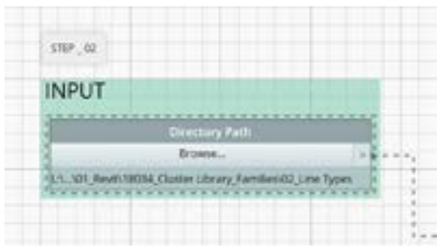
DYNAMO SCRIPTS

01_IMPORTING SELECTED DESIGN INTO NEW PROJECT FILE

DYNAMO FILE	Seismic School App - Import_01.dyn
DEPENDENCIES	Seismic template selected in creating a new Revit project file
ASSOCIATED FILES	Low-Res Clusters Folder, Line Types Folder and Excel File produced from App
DESCRIPTION	This script enables the importing of all the clusters' families into the project file and recreating the selected design. Steps are to be 'RUN' in order 



STEP 01:
- Browse and select the Low-Res Clusters folder.
- Unfreeze Node by right clicking the node and unticking "Freeze"
- Run Script



STEP 01:
- Freezing Step 01 - Browse and select the Line-Types folder.
- Unfreeze Node by right clicking the node and unticking "Freeze"
- Run Script

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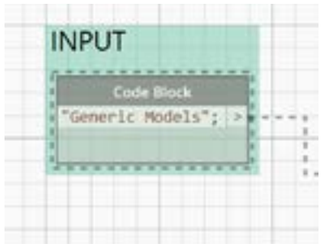
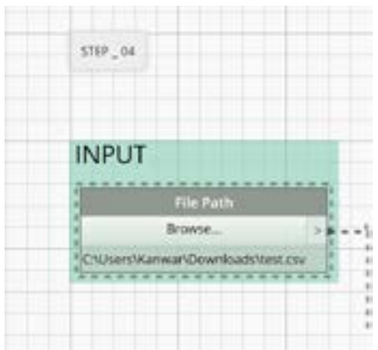
DYNAMO SCRIPTS

01_IMPORTING SELECTED DESIGN INTO NEW PROJECT FILE



STEP 03:
- Freezing Step 02 - Unfreeze Node



STEP 04:
- Browse and select the Excel file downloaded
- Unfreeze Node by right clicking the node and unticking “Freeze”
- Select a 3D View in Revit - Run Script

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DYNAMO SCRIPTS

02_REBUILDING CLUSTERS - WALLS, WINDOWS AND DOORS

DYNAMO FILE	Seismic School App - Import_02.dyn
DEPENDENCIES	Seismic School App - Import_01.dyn - Dynamo Script must be run in 3D View
ASSOCIATED FILES	
DESCRIPTION	This Script enables the rebuilding of the clusters in Revit after being placed. Import_02 rebuilds walls, doors and windows. 

- All Wall Types must be Unfrozen
- Run Script

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DYNAMO SCRIPTS

03_REBUILDING CLUSTERS - FLOORS

DYNAMO FILE	Seismic School App - Import_03.dyn
DEPENDENCIES	Seismic School App - Import_01.dyn - Dynamo Script must be run in 3D View
ASSOCIATED FILES	
DESCRIPTION	This Script enables the rebuilding of the clusters in Revit after being placed. Import_03 rebuilds floors. 

- All Floor Types must be Unfrozen
- Run Script

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