

# 3DReid

Dynamo scripts for Revit 2023



A guide for users

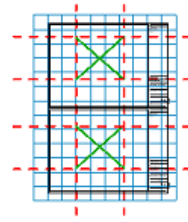
Latest issue: Jan 2024

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## Align views across multiple sheets

This script will use a template view to align other views on other sheets so long as they have the **same scope box** applied as the selected sheet. If you wish to align several views on a sheet, run the script multiple times selecting one view per run.



**They must have different scope boxes for this to work.**

Step #	Instruction	Comments
1	Make sure the chosen view is in the correct place on one sheet. This will be your 'template'.	For ease, make sure this sheet is your active sheet and is visible (not hiding behind your dynamo) and that the view is <b>not active</b> .
2	Run the script and click the "OK" button in the pop-up window, then left click on the view in Revit you want to use to align other views with.	Hit the escape key if you can't select your view.
3	In the next pop-up select all views you wish to align by ticking the tick box next to the view name.  Then click the, "YAY align!" button.	Your template view will not appear in this pop-up.  There are "Tick All" and "Tick None" buttons below the list.
4	A final pop-up will appear with a count of how many views have been aligned.  Click the "Close" button.	
5	Please check your new sheets carefully.	<b>If the title blocks have been moved the views may not appear in the exact same place as the original sheet.</b>

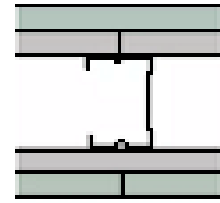
We hope you love this script!

Please give feedback, suggestions and praise! >>> [computational.team@3dreid.com](mailto:computational.team@3dreid.com) <<< E-mail

## Create a Revit wall using a British Gypsum (BG) code

This script will create a wall in Revit using a code from British Gypsum's 'Internal Partitions and Walls' White Book.

**Currently it only works for internal partitions and walls.**



Step #	Instruction	Comments
1	<b>Run the script.</b>	You can have your BG code ready, or you can click one of the links on the first pop-up to take you to the White Book online or our downloaded version to select the code.
2	Enter the BG code into the box in the pop-up window and click the "Proceed" button.	
3	Read the next pop-up carefully.  If you're happy you've selected the correct wall type then tick the tickbox and then click the 'OK' button.	If you've got the wrong wall type click the "Cancel" button.
4	If the script is successful, you will see a final pop-up which tells you what your new wall type is called along with other important information.	
5	In Revit carefully check your wall type and tweak as required.	Some components will not be modelled. These can be added manually or shown in detail drawings only.

We hope you've enjoyed this script!

## Duplicate multiple sheets

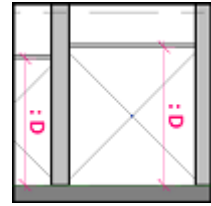
This script will duplicate sheets selected by ticking checkboxes in a pop-up. Everything on the sheet can be copied including the title-block information and any views placed on the sheets.

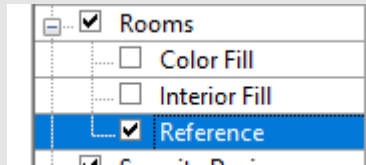


Step #	Instruction	Comments
1	Ensure the correct Revit model is active and then run the script.	Have a sheet/ view open of the model containing the sheets you want to copy.
2	From the pop-up menu, select the sheets you wish to copy (click the checkbox next to the sheet name)	
3	Decide if you also want views to be copied (with or without detailing) by ticking or unticking the boxes next to those options.	<div>Copy views <input checked="" type="checkbox"/> With Detailing <input checked="" type="checkbox"/></div>
4	Proceed by clicking on the "Agree and copy" button.	Your chosen sheets will be duplicated with the prefix, "_DYNCOPY". If the duplication process is not successful, then a pop up will appear with troubleshooting suggestions. <b>Please check these before contacting the Dynamo team.</b>
5	Read the final pop-up then click "Close".	
6	Marvel at your shiny new sheets. Do not forget to rename them & any relevant views.	You will feel happy you let Dynamo do the work and realise automation is awesome.

## Fix room heights

This script will adjust all room heights so the top is in line with the soffit/ ceiling directly above the room location point.



Step #	Instruction	Comments
1	Ensure none of your room cross hairs are underneath a bulkhead or low beam. (Turn on cross hairs in VV/ Rooms /Reference).	
2	Run the script and click the, "Fix room heights" button.	Dynamo will automatically adjust all your room heights.
3	Please read the final pop-up carefully as it contains information about your rooms.	

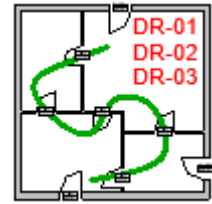
## Number – Automatically number internal doors (per level)

This script will automatically number internal doors per level using drawn area plans. It will also number if there are no area plans available.

Step #	Instruction	Comments
1	Have your door/window or wall plan open in Revit before running this script.	It is preferable to tag all your doors in this plan too (so you can easily check the numbering afterwards)
2	Run the script and a pop-up will appear with a drop down menu.	
3	From the drop-down menu select which type of Area Plan you'd like to use to number your doors.	If you have no area plans the script will use room numbers. If you have no areas or rooms the script will use "XXX" as a prefix.
4	A final pop-up will appear giving you a count of doors renumbered. Close the window and Revit will automatically update all your door marks.	
5	Check your numbering carefully. This is only a script and may not always be perfect!	

## Number – Doors and Windows along a drawn a spline

This script will allow you to select a spline in your Revit view, input a start number and prefix and number all doors or windows along the spline in sequence.

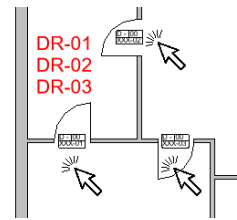


Step #	Instruction	Comments
1	In your Revit floorplan (preferably your door location plan) draw a spline running through all the doors you want to number.	It is also preferable to tag all your doors in this plan too (so you can easily check the numbering afterwards)
2	Run the script and select either, "Doors" or "Windows" from the first pop-up. Then click the, "Continue" button	You can also click cancel or click on the help button.
3	Read the second pop up, click, "Close" and then in the Revit window click on your spline.	
4	In the third pop-up enter a 3 character prefix and enter a start number. for example: L01-01 or ABC-21 Then click, "Renumber!"	
5	Check the final pop-up to see if the expected number of doors have been renumbered.	
6	Close the pop-up and check your numbering in Revit.	



## Number – Doors, Walls and Windows by clicking

This script will allow you renumber doors, walls or windows in a view by clicking on them and then inputting a start number and prefix in the pop-up window.




Step #	Instruction	Comments
1	Have your door/window or wall plan open in Revit before running this script.	It is preferable to tag all your doors in this plan too (so you can easily check the numbering afterwards)
2	Run the script and select either, "Doors", "Walls" or "Windows" from the first pop-up. Then click the, "Continue" button	You can also click cancel or click on the help button.
3	Read the second pop up, click, "Close" and then in the Revit window click on your items in the order you wish them to be numbered. Hit the Escape key when you've finished clicking.	
4	In the third pop-up enter a 3 character prefix and enter a start number. for example: L01-01 or ABC-21 Then click, "Renumber!"	
5	Check the final pop-up to see if the expected number of doors have been renumbered.	
6	Close the pop-up and check your numbering in Revit.	

## Open AutoCAD DWG from Revit

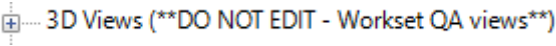
This script will open a DWG in AutoCAD 19 by clicking on it in Revit.



Step #	Instruction	Comments
1	Run the script and read the pop-up.	There is useful information on pop-ups but sadly not many people read them.
2	In your Revit window click on the DWG(s) you want to open.  When you have clicked on your DWG(s) hit the Escape key (Esc).	
3	Wait for AutoCAD to open and dream of the day AutoCAD is a distant memory.	If ACAD does not open and you did not get any warning pop-ups please check you have AutoCAD 19 installed on your machine.

## QA views - Create a 3D view per workset

This script will create a 3D view for every workset in your model and only show items in that workset.

Step #	Instruction	Comments
1	Click run and you will be greeted with a pop-up.  Click on "Make my views!"	We have preset a default type name but you can change this if required by typing into the box.
2	Use these views to keep your worksets organised.  A clean, well organised model is a happy model.	Your views will be in this sub-folder in Revit 

Don't forget to synchronise and make a note (see image below) that you've just run a dynamo script.

