

Dynamo Packages: Have You Tried These Yet?

Carl Storms

IMAGINiT Technologies, Solutions Consultant

John Pierson

Parallax Team, Design Technology Specialist



Session Handout & Presentation

Via Website

The screenshot shows a web browser window for 'Handouts – The BIMsider'. The URL in the address bar is <https://thebimsider.com/speaking-engagements/speaking-engagement-handouts/>. The page header includes links for 'ABOUT', 'BIM BOX', 'PODCASTS', 'SPEAKING' (which is circled in green), 'USER GROUPS', and 'VIDEOS'. A blue arrow points from the 'SPEAKING' menu item down to the 'HANDOUTS' link in a dropdown menu. Below this, there's a section titled 'Speaking Engagements – Handouts' with a sub-section for 'AU 2018' (circled in orange) and other links like 'BILT EUR 2018', 'BILT NA 2018', and 'Data Day 2018'. At the bottom, the website URL 'thebimsider.com' is displayed in large blue text. The page content also features social media icons for Facebook, Twitter, Instagram, LinkedIn, and YouTube, along with promotional banners for 'BILT EUR 2018' and 'AUTODESK UNIVERSITY'.

Via QR Code



Agenda

Introductions

Packages

Bonus

Questions

About The Speaker



**Carl Storms | Solutions Consultant
IMAGINiT Technologies | Building Solutions Division**

Calgary, Alberta, Canada

Email: cstorms@rand.com

Website: www.imaginit.com

Twitter: [@theBIMSider](https://twitter.com/theBIMSider)

Email: thebimsider@gmail.com

Blog: www.thebimsider.com

LinkedIn: www.linkedin.com/in/cstorms

Podcast: www.simplycomplex.sharedcoordinates.com

Podcast: www.blueprints.rip

Worked in Residential & Commercial Architecture

Worked in Commercial Construction (BIM/VDC)

Nearly 10 years as a Collegiate & Industry Instructor

Speaker at Multiple AU & RTC/BILT Conferences

Started working with CAD in 1993 (using since 1989)

Been involved in AEC Since 1998

Been utilizing BIM since 2008

With IMAGINiT Since 2012

About The Speaker



**John Pierson | Design Technology Specialist
Parallax Team**

Rio Rancho, New Mexico, USA

Email: JohnPierson@ParallaxTeam.com

Website: www.parallaxteam.com

Twitter: [@60secondrevit](https://twitter.com/60secondrevit)

Email: sixtysecondrevit@gmail.com

Blog: www.sixtysecondrevit.com

LinkedIn: www.linkedin.com/in/john-pierson

Podcast: www.simplycomplex.sharedcoordinates.com

Creator of several Dynamo Packages with Over 54,000 Downloads

Worked in Commercial Architecture

Speaker at Multiple AU & RTC/BILT Conferences

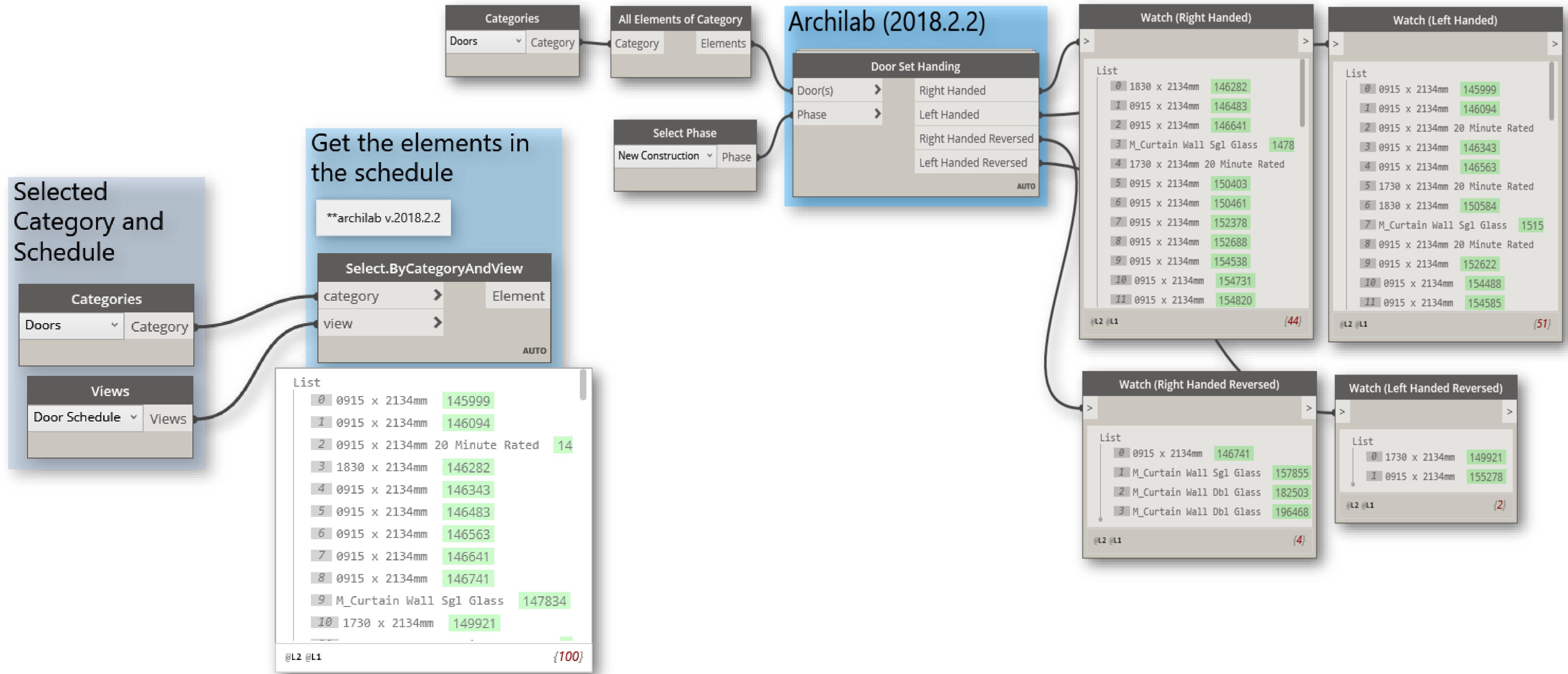
Working in BIM since 2010

Working/ Consulting with Parallax for Over 2 Years

Packages

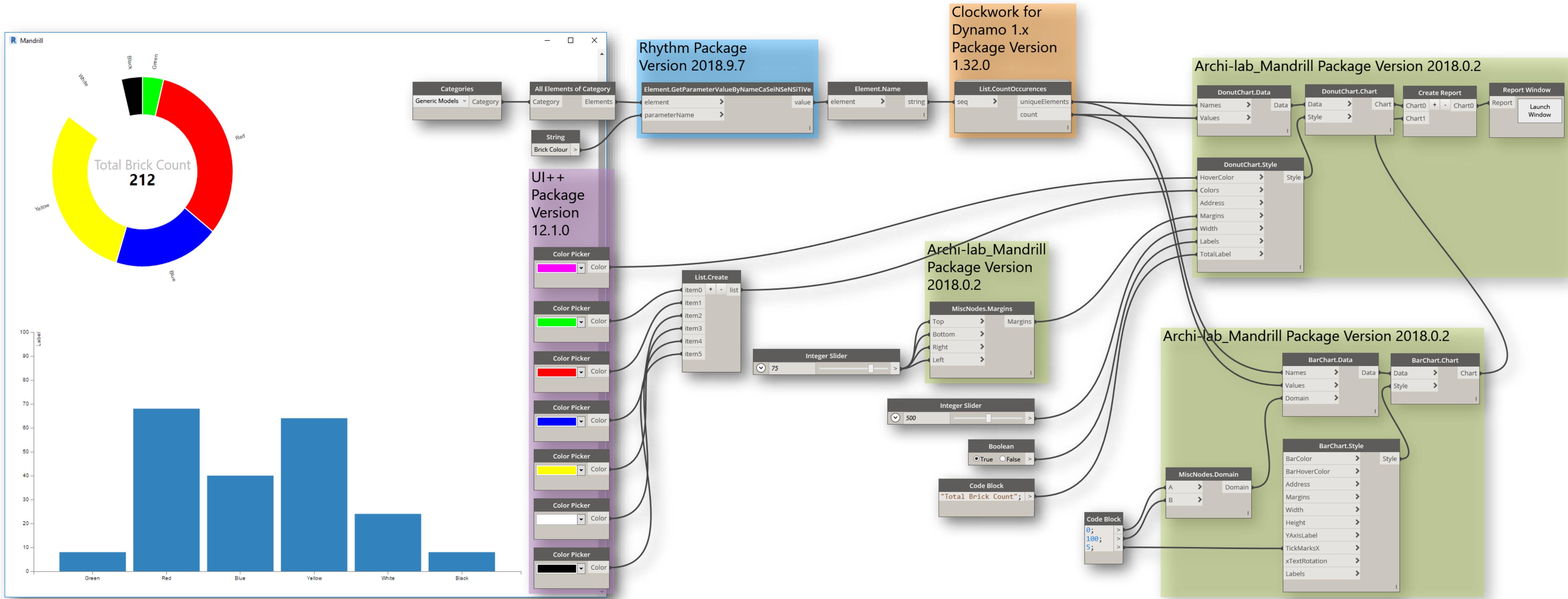


Author: Konrad Soban



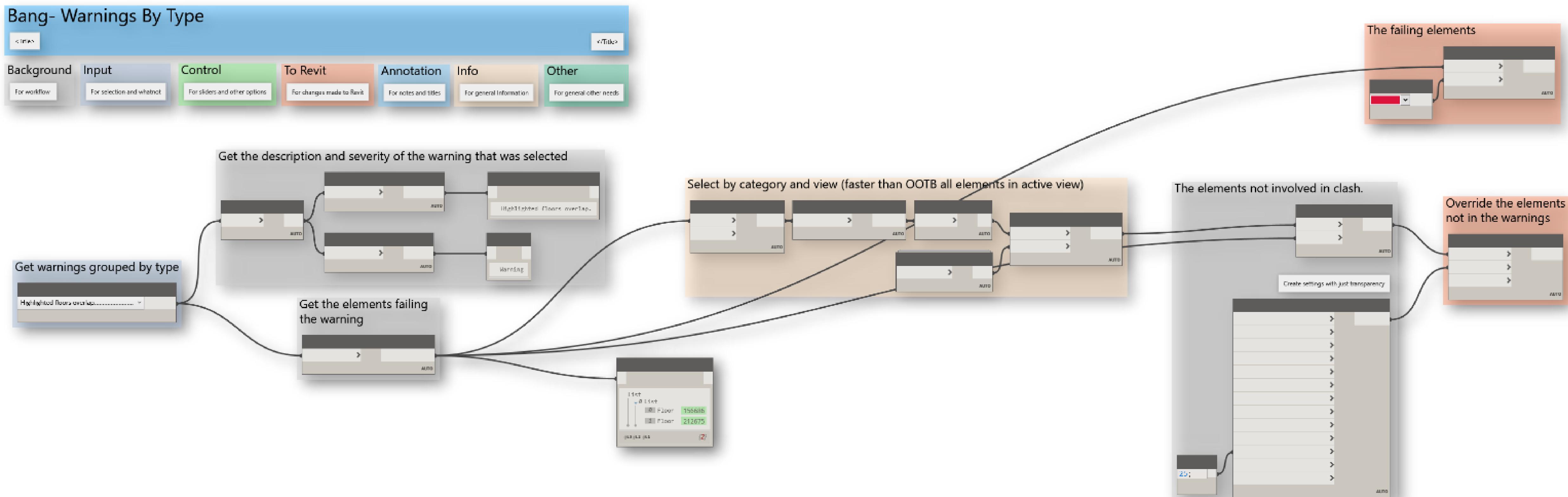
Archi-lab_Mandrill

Author: Konrad Soban



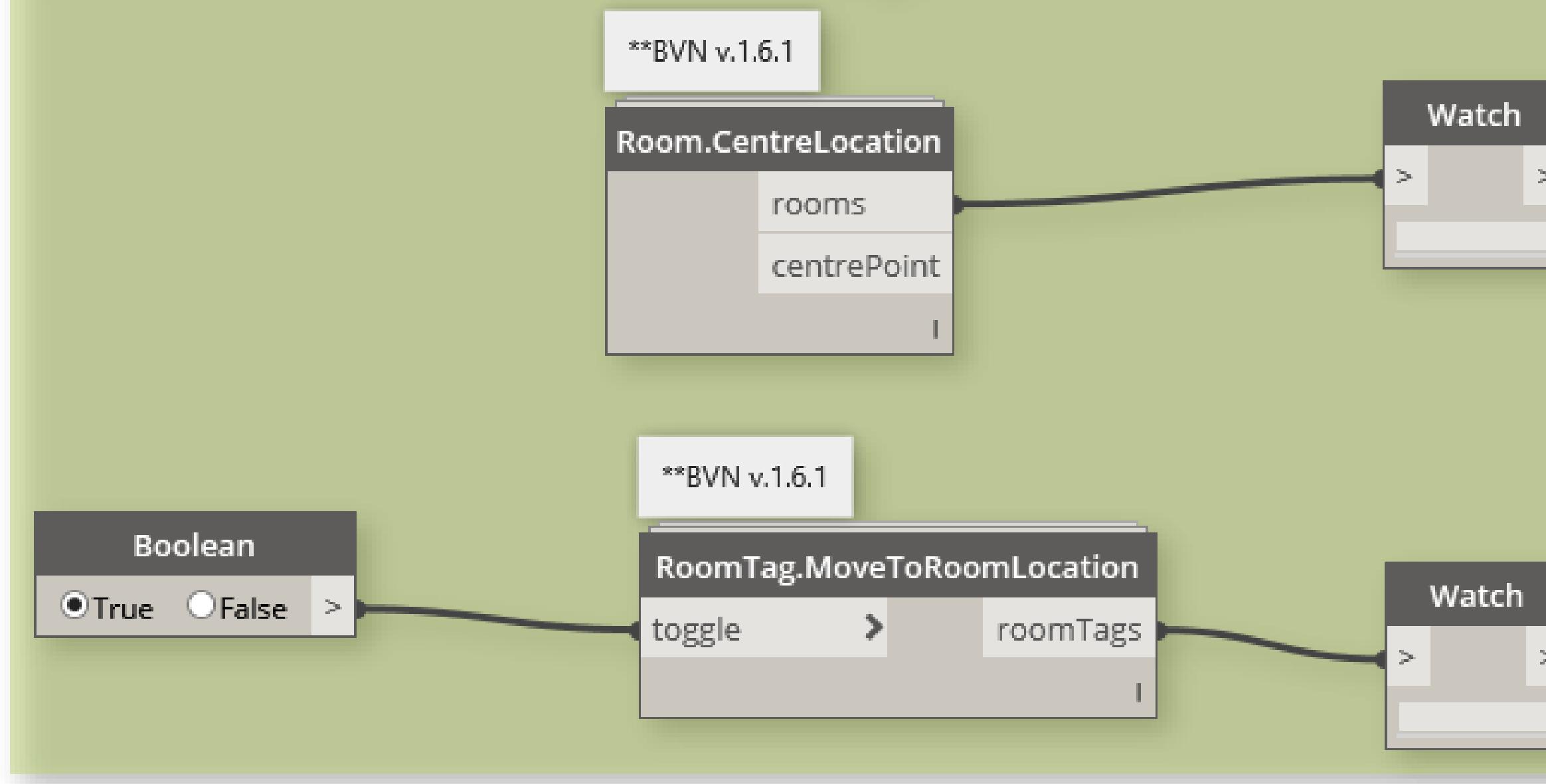
Bang!

Author: John Pierson

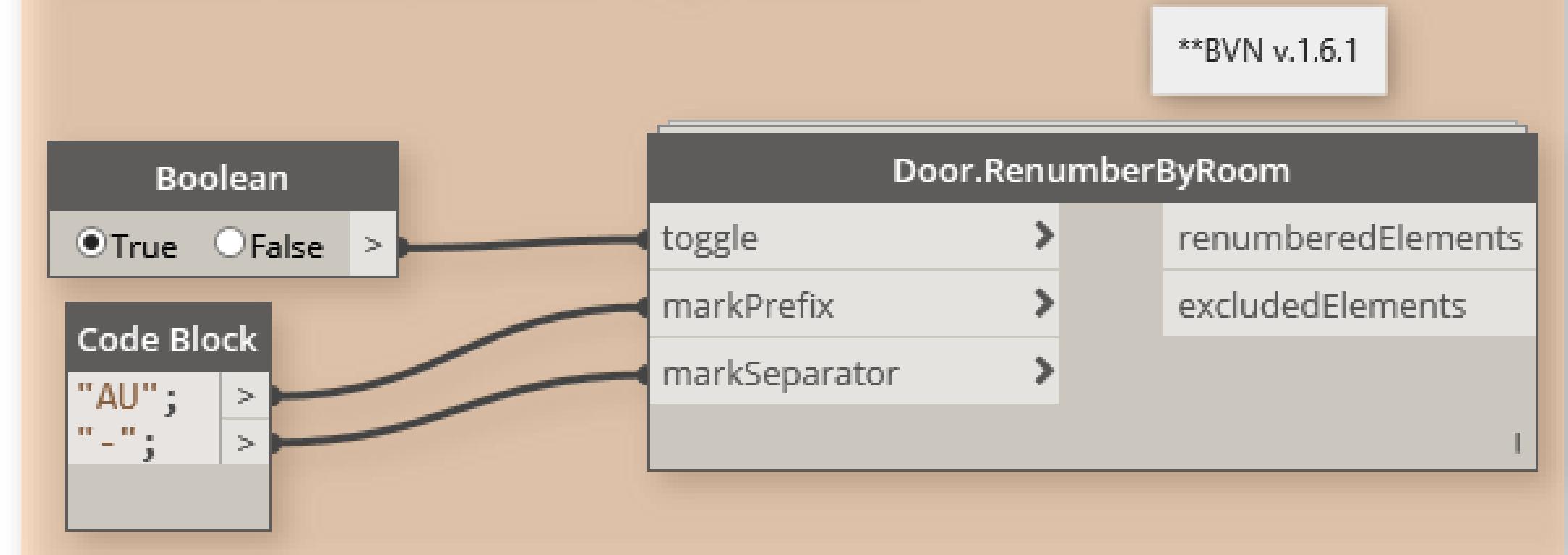


Author: BVN

Center rooms and room tags

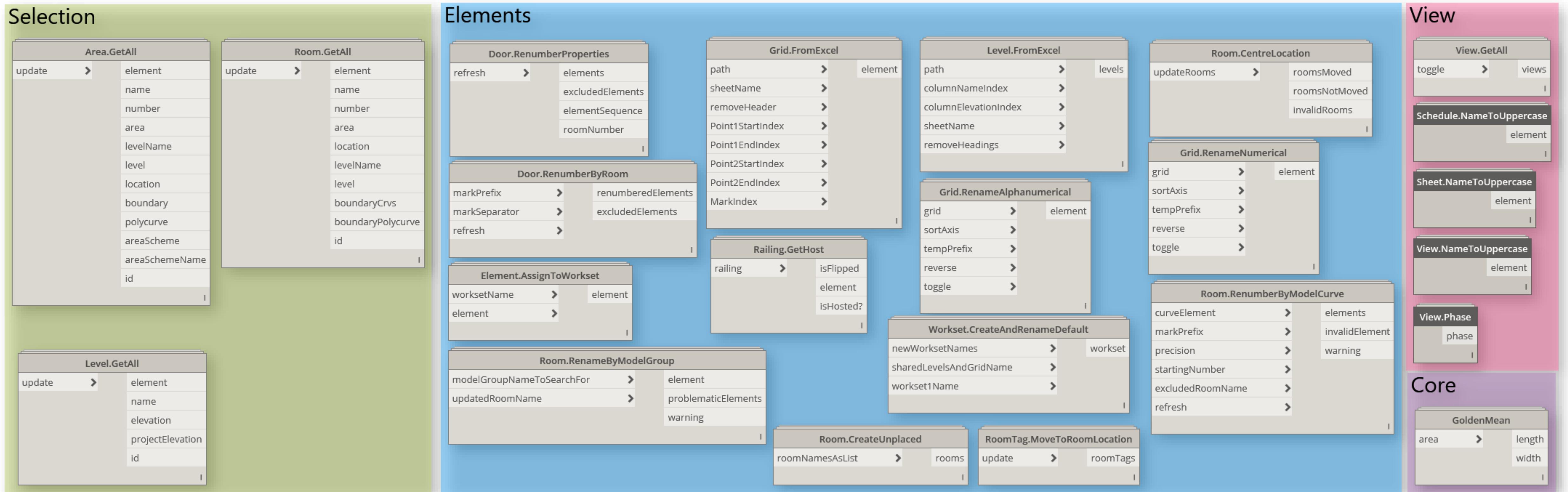


Doors renumber by room



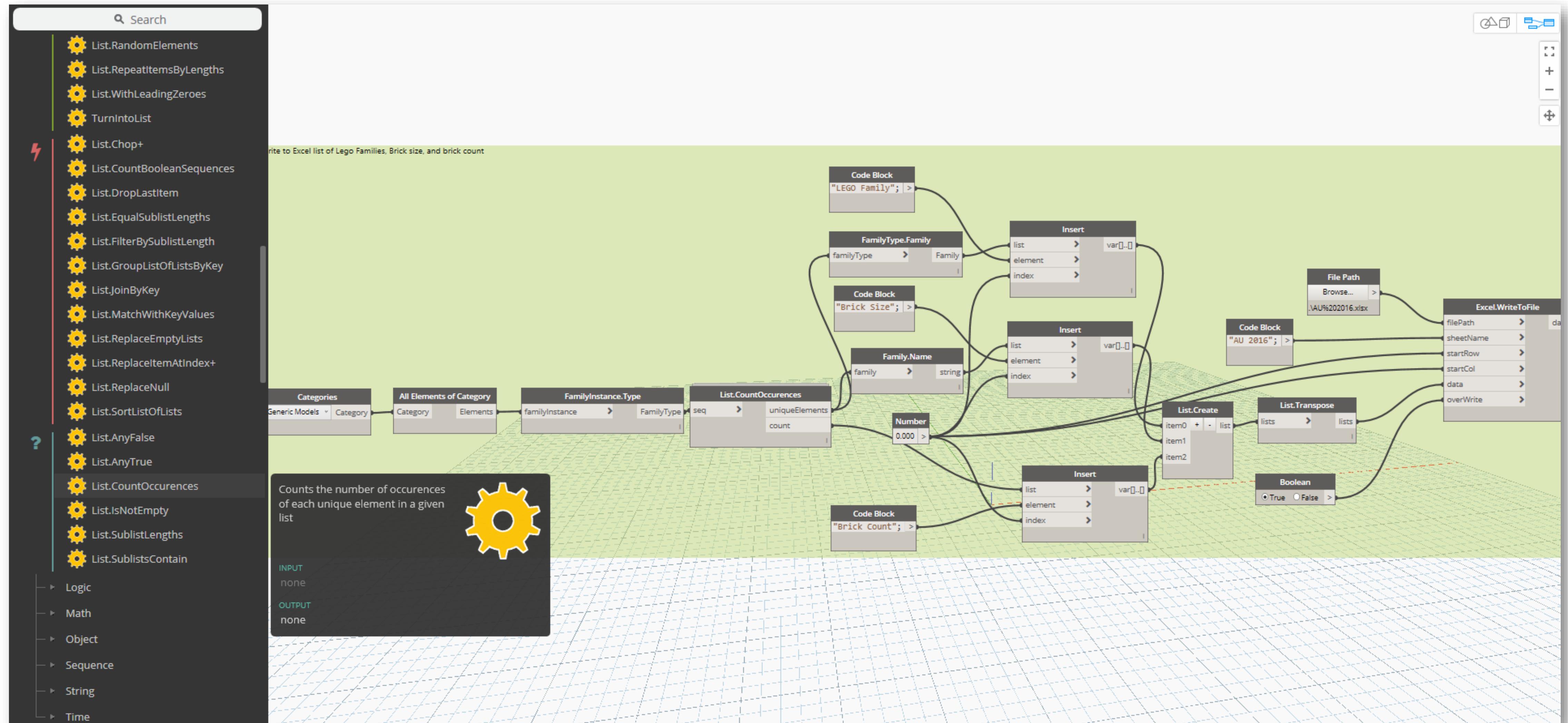
ParametricMonkey

Author: Paul Wintour



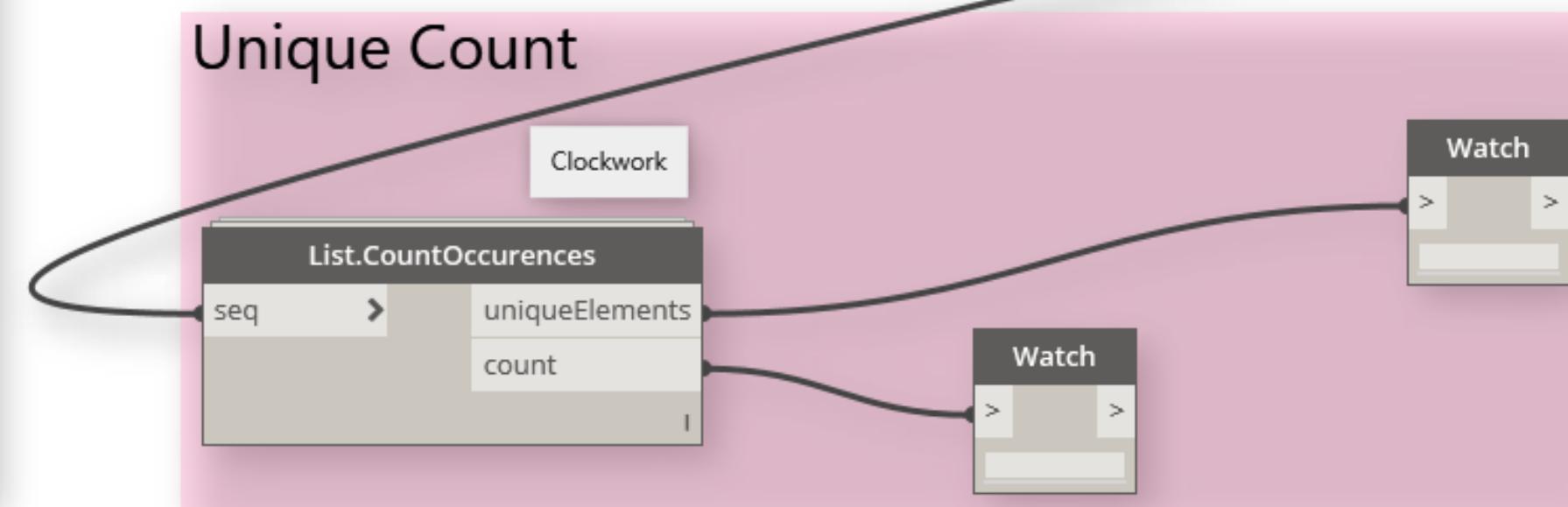
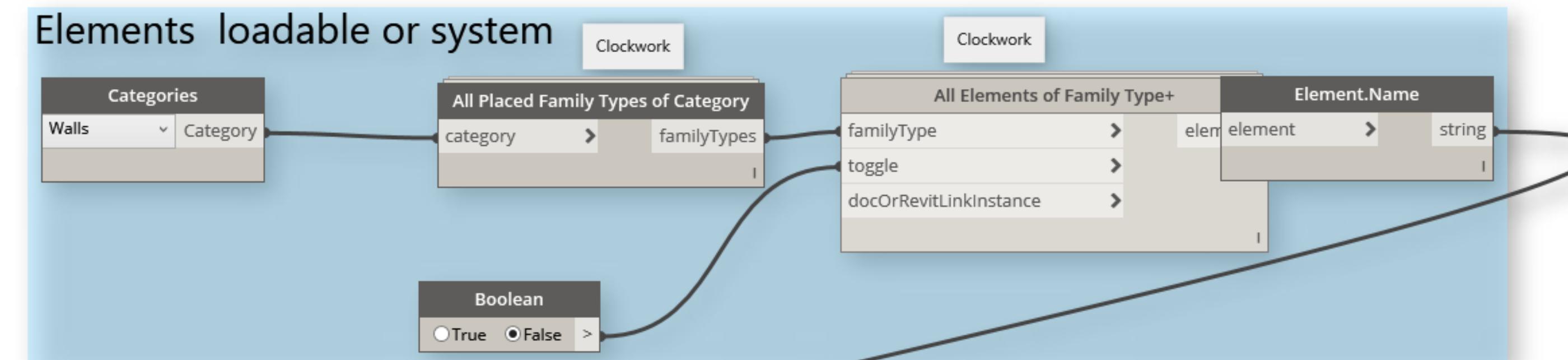
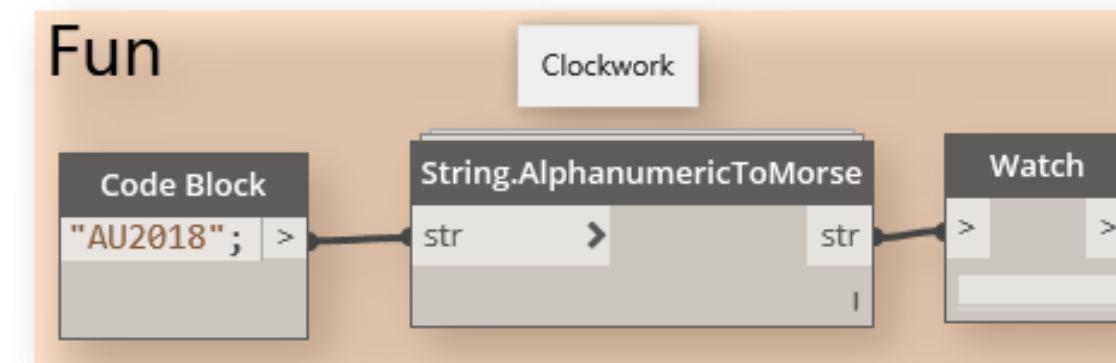
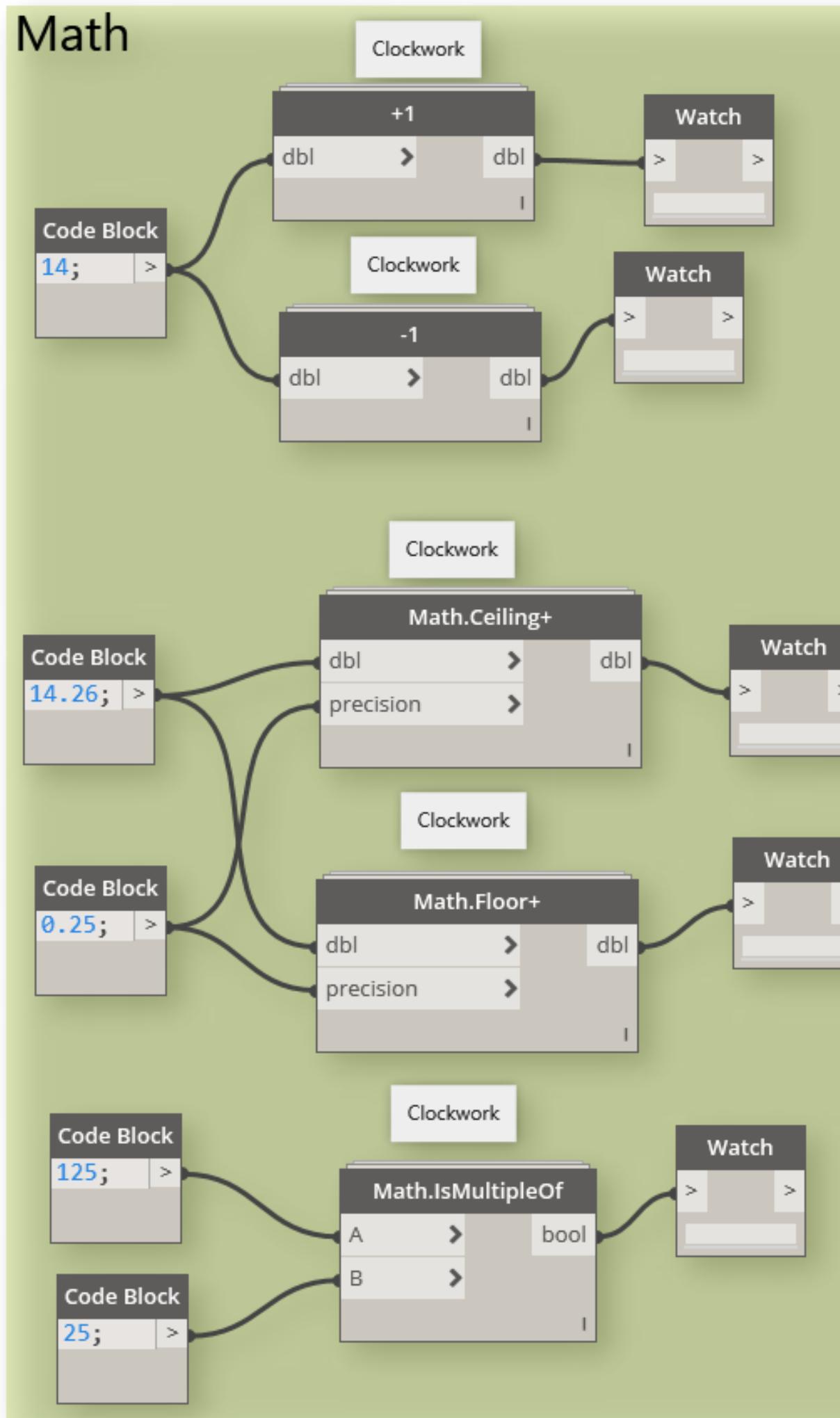
Clockwork for Dynamo 1.x

Author: Andreas Dieckmann



Clockwork for Dynamo 2.x

Author: Andreas Dieckmann



Connected_ByDesign

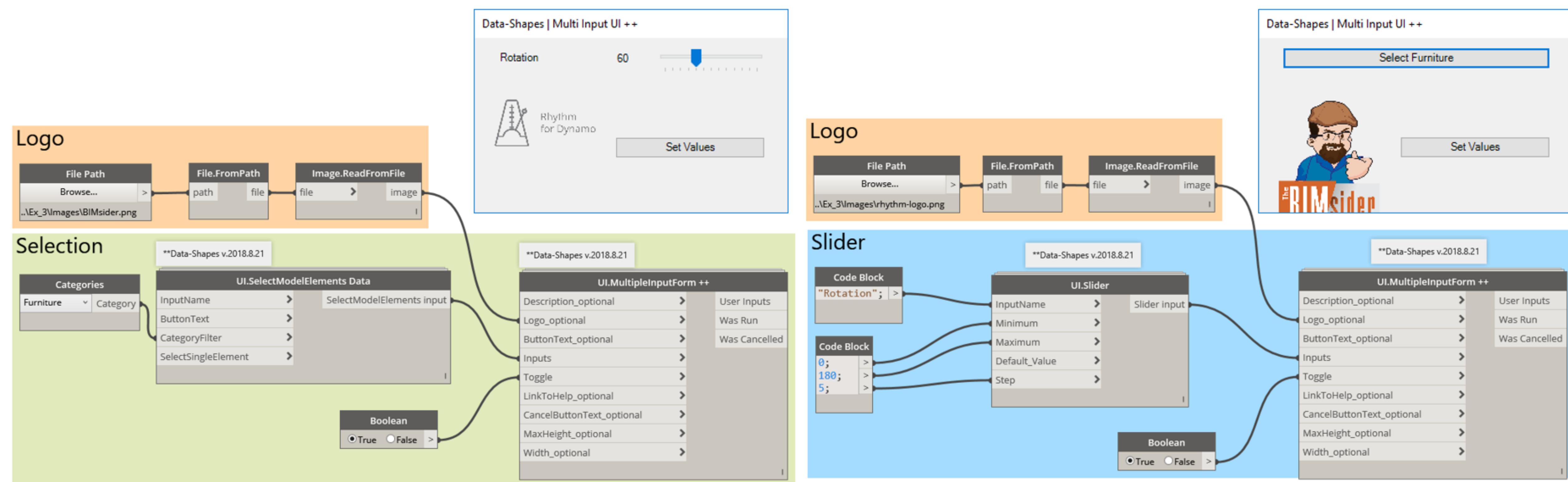
Author: Emmett Cruey

The screenshot shows the Chynamo interface with the following details:

- Library Tree:** A tree view on the left lists various Chynamo components. The "Connected_Design" folder is highlighted with an orange oval.
- Node Details:** A detailed view of the "List_CompareAndMatch+" node is shown on the right.
 - Inputs:** a_TakeFromList, b_ItemsToTake
 - Outputs:** a_Reduced List, b_Unmatched Items, c_In Both Lists, a_Index of Match, b_Index of Match
- Description:** The node description states: "Compares 2 lists and reports matching items, and unmatched from both lists_!!".
- Custom Node:** A blue-bordered box labeled "custom node" is visible on the right side of the node details panel.
- Input/Output:** The node has no inputs or outputs.

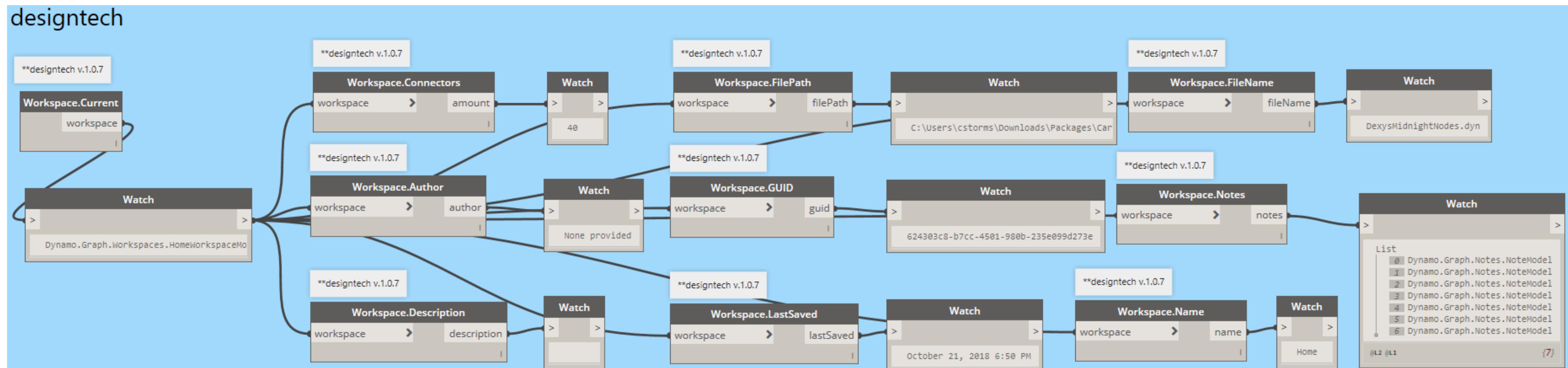
Data-Shapes

Author: Mostafa El Ayoubi



Designtech

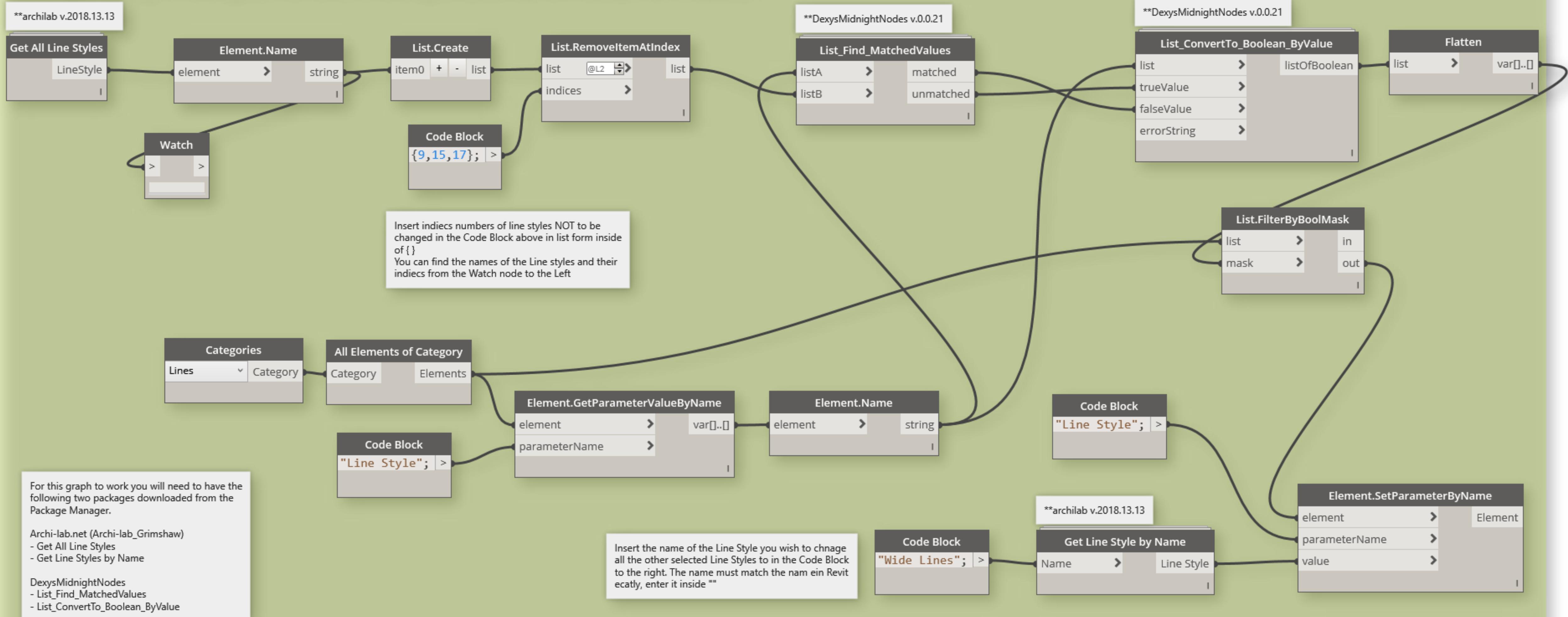
Author: Mark Thorley



DexysMidnightNodes

Author: Dexter Robinson

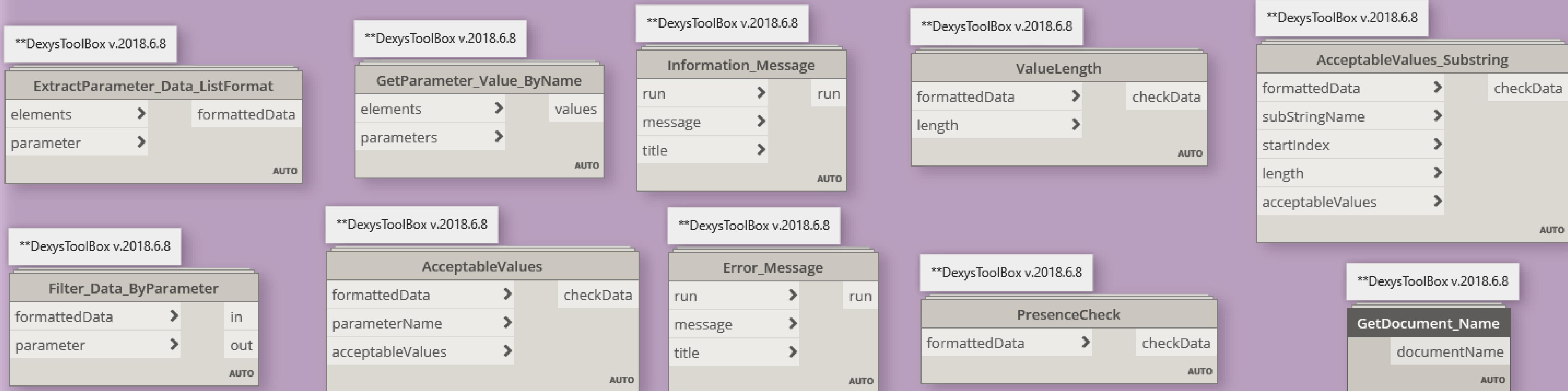
Change many line styles to one line style (works on detail & model)



DexysToolBox

Author: Dexter Robinson

DexysToolBox



DynaMonito

Author: Andreas Dieckmann

The screenshot displays the DynaMonito application interface with four main windows:

- DynaMonito** (Top Left): A sidebar menu with the following items:
 - Find and Fix Ungrouped
 - Isolate in Geometry Preview
 - Manage Dynamo Player Inputs and Outputs
 - My Graphs
 - New Workspace from Template
 - Package Directories
 - Search in Workspace
 - About DynaMonito
- DynaMonito - Manage Dynamo Player Inputs and Outputs** (Top Middle): A window with four buttons:
 - Set selected as input
 - Set selected as output
 - Reset selected inputs
 - Reset selected outputs

No Dynamo Player inputs in current workspace... No Dynamo Player outputs in current workspace...
- DynaMonito - Isolate In Geometry Preview** (Top Right): A window with four buttons:
 - Isolate selected in geometry preview
 - Add selected to geometry preview
 - Remove selected from geometry preview
 - Enable geometry preview for ALL nodes
- DynaMonito - Find and Fix Ungrouped** (Bottom Left): A window titled "Fix groupings" showing a list of ungrouped nodes:

All ungrouped nodes and text notes in current workspace:

 - All Warnings of Type [Node]
 - Categories [Node]
 - Dynamo.Version [Node]
 - Helpers.CurrentUserAppData [Node]
- DynaMonito - Search in Workspace** (Bottom Right): A search interface with a "Search Scope" section containing the following checked options:
 - Node nicknames
 - Original node names
 - Node categories
 - Node descriptions
 - Node tags
 - Text notes
 - Group titles

Juggernaught

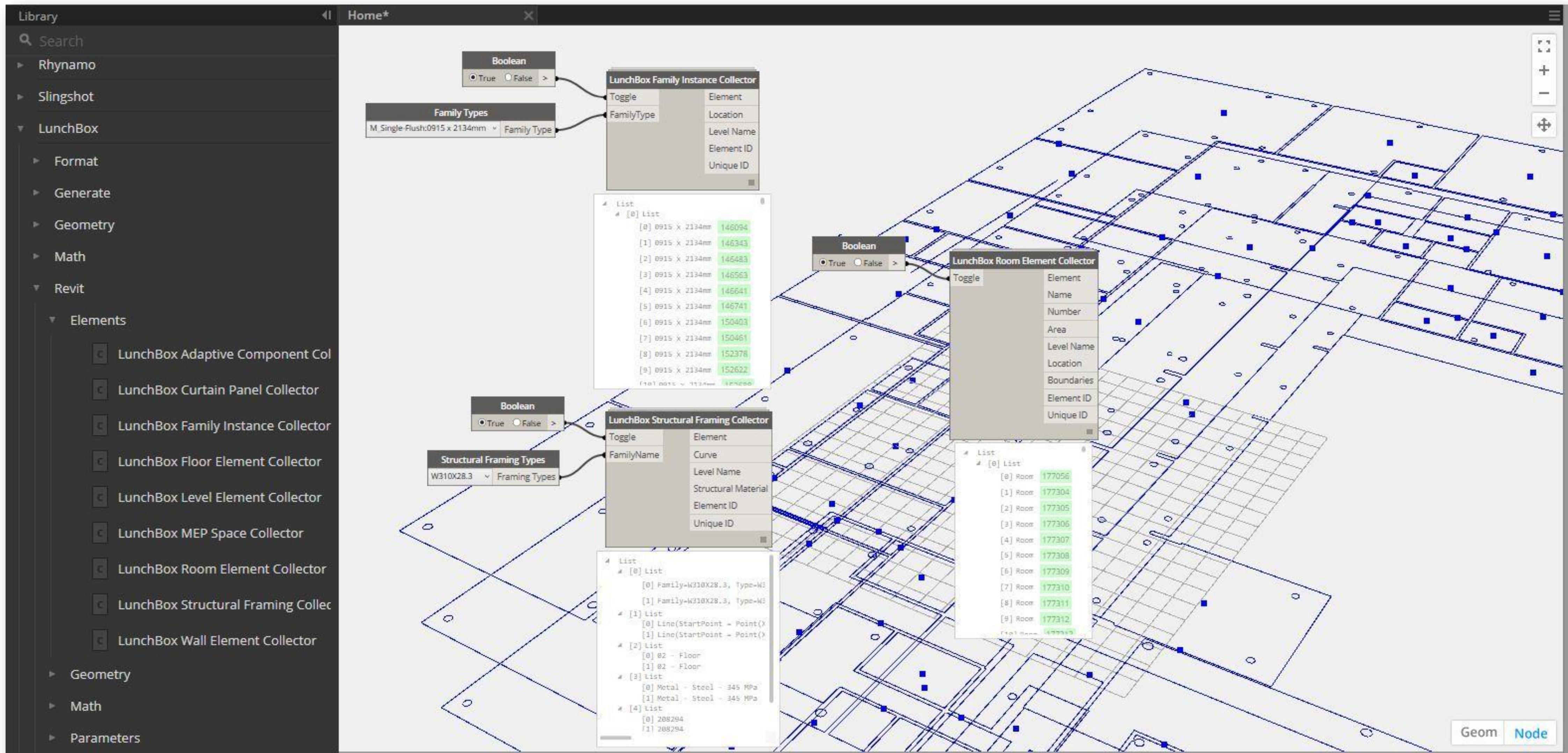
Author: Jeremy Graham

The image shows the Juggernaught interface, which is a collection of components for Dynamo. It includes:

- Sidebar:** Shows a tree view of available components:
 - infraBim
 - Juggernaught
 - Core
 - List
 - + SelectItem.ByList
 - Geometry
 - Revit
 - Kodestruct
 - KonstruDynamo
 - Ladybug
 - Landform
- Central Component Panel:** A large component labeled "Coolest Icon!" with a red arrow pointing to its icon. The icon is a red circle containing a stylized skull-like face with white eyes and a mouth.
- Core Panel:** Labeled "Juggernaught Core". It contains a component named "SelectItem.ByList" with two inputs: "List" and "List".
- Geometry Panel:** Labeled "Juggernaught Geometry". It contains components for calculating midpoints ("Point.MidPoint") and extracting XYZ coordinates ("Point.XYZ").
- Revit Panel:** Labeled "Juggernaught Revit". It contains components for getting room names and room numbers by point ("Get.RoomNameByPoint" and "Get.RoomNumberByPoint").

LunchBox for Dynamo

Author: Nathan Miller



Monocle

Author: John Pierson

The screenshot displays the Monocle for Dynamo extension interface. On the left, there's a sidebar with a logo of a cat wearing glasses, a thumbnail of two people, and text: "monocle for dynamo free tools from ParallaxTeam". A green oval highlights the text "Monocle for Dynamo - 'Turn Dynamo up to 11'". Below this are copyright details: "© 2018 Parallax Team" and a link "www.parallaxteam.com". The main window has a title bar "R" and a menu bar with "Monocle" highlighted. The "About" menu item is selected, showing options like "Alignifier3000", "Sticky Note", "Custom Colored Grouping", and "package usage doge". The central area shows "Packages In Use:" followed by a list: "Clockwork", "Revit", "archilab", "Springs", "Rhythm", and "Bang". To the right is a large image of a Shiba Inu dog with several red, purple, and blue text annotations: "wow", "much automation", "many nodes", "such efficiency", "productivity increase", and "such custom". Below the image are three buttons: "Send Package Usage to Clipboard", "Annotate Custom Nodes (add note)", and "Clear Custom Node Notes". At the bottom, it says "this tool is brought to you by parallaxteam (www.parallaxteam.com)". On the right side, there are two panels: "Custom Grouping" and "Alignifier3000". The "Custom Grouping" panel contains six color swatches with dropdown menus and lightning bolt icons. The "Alignifier3000" panel shows four pairs of node icons.

Monocle

About

Alignifier3000

Sticky Note

Custom Colored Grouping

package usage doge

R About

monocle for dynamo
free tools from **ParallaxTeam**

Monocle for Dynamo - "Turn Dynamo up to 11"

© 2018 Parallax Team
www.parallaxteam.com

Packages In Use:

Clockwork

Revit

archilab

Springs

Rhythm

Bang

wow

much automation

many nodes

such efficiency

productivity increase

such custom

Send Package Usage to Clipboard

Annotate Custom Nodes (add note)

Clear Custom Node Notes

this tool is brought to you by parallaxteam (www.parallaxteam.com)

Custom Grouping

title color group selection

Background

Input

Control

To Revit

Annotation

Info

PARALLAXTEAM

Alignifier3000

PARALLAXTEAM

This Dynamo Extension is super cool!

monocle for dynamo rules!

Doge for King

ParallaxTeam makes good stuff

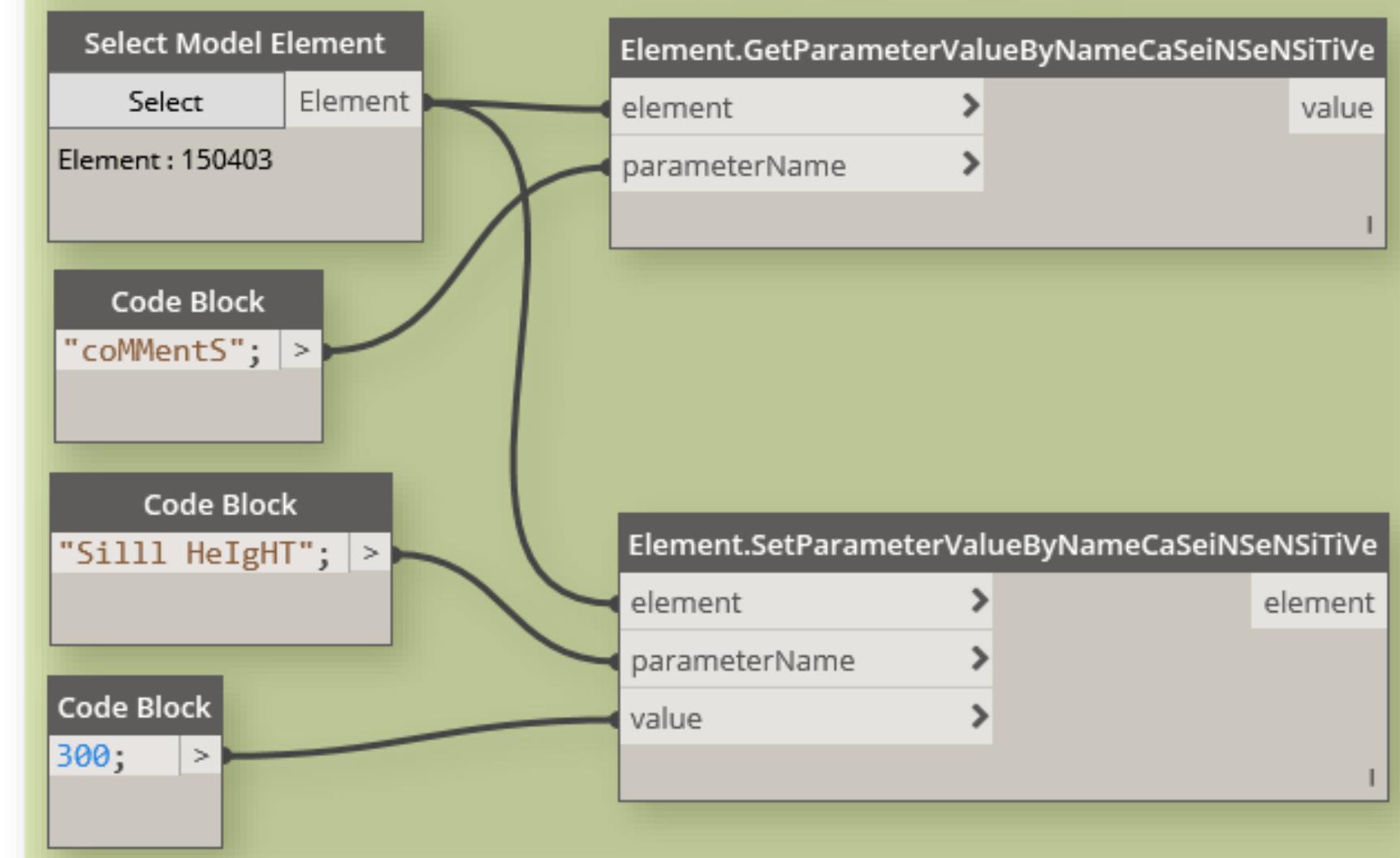
Rhythm

Author: John Pierson

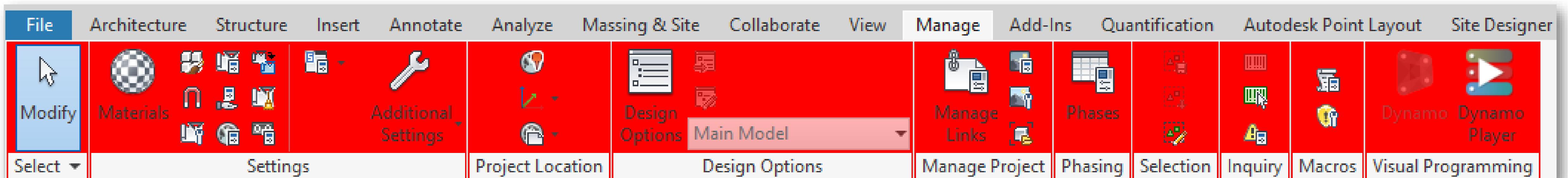
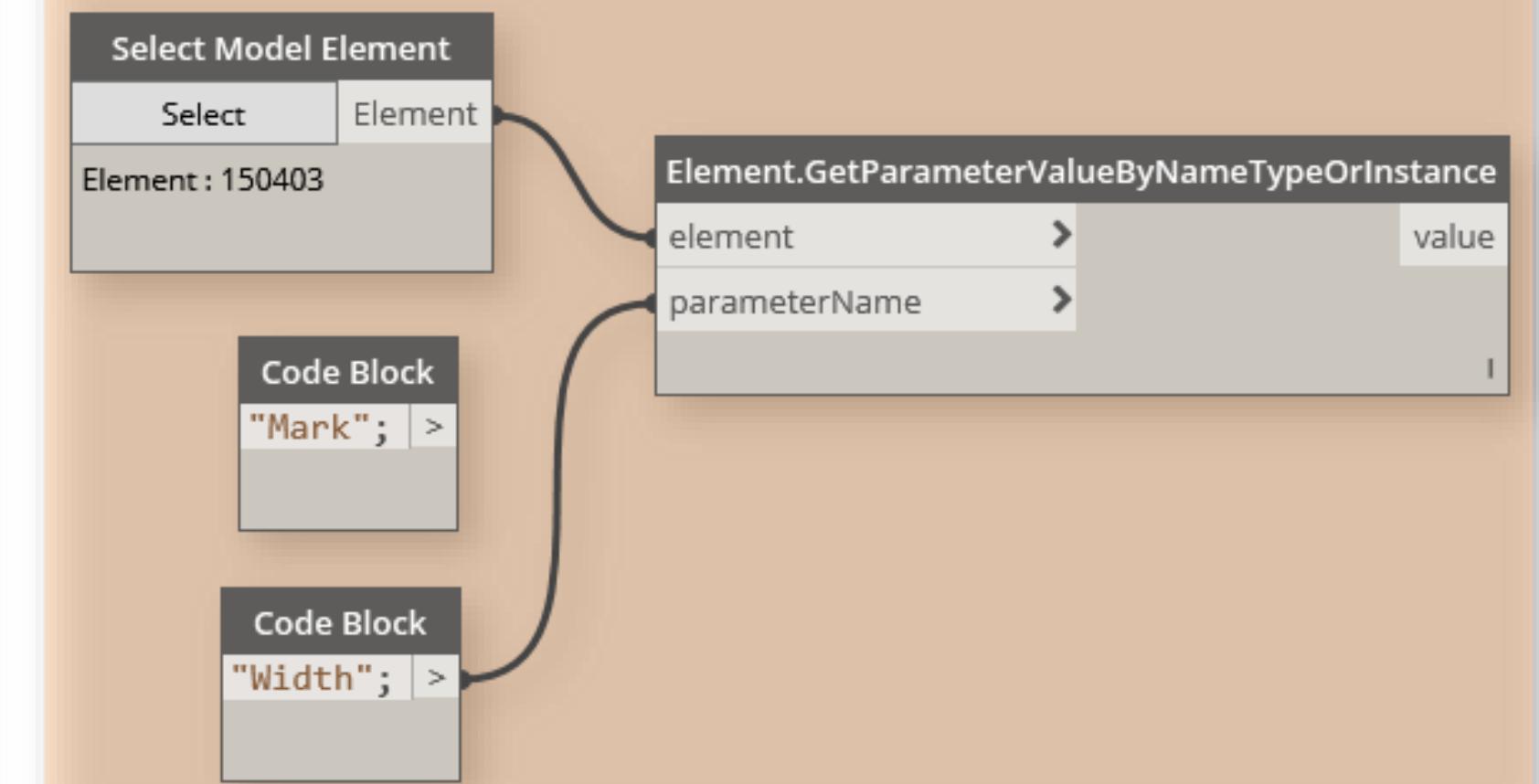
What color is your Ribbon?



Its OK to be Insensitive (cAsE that is)

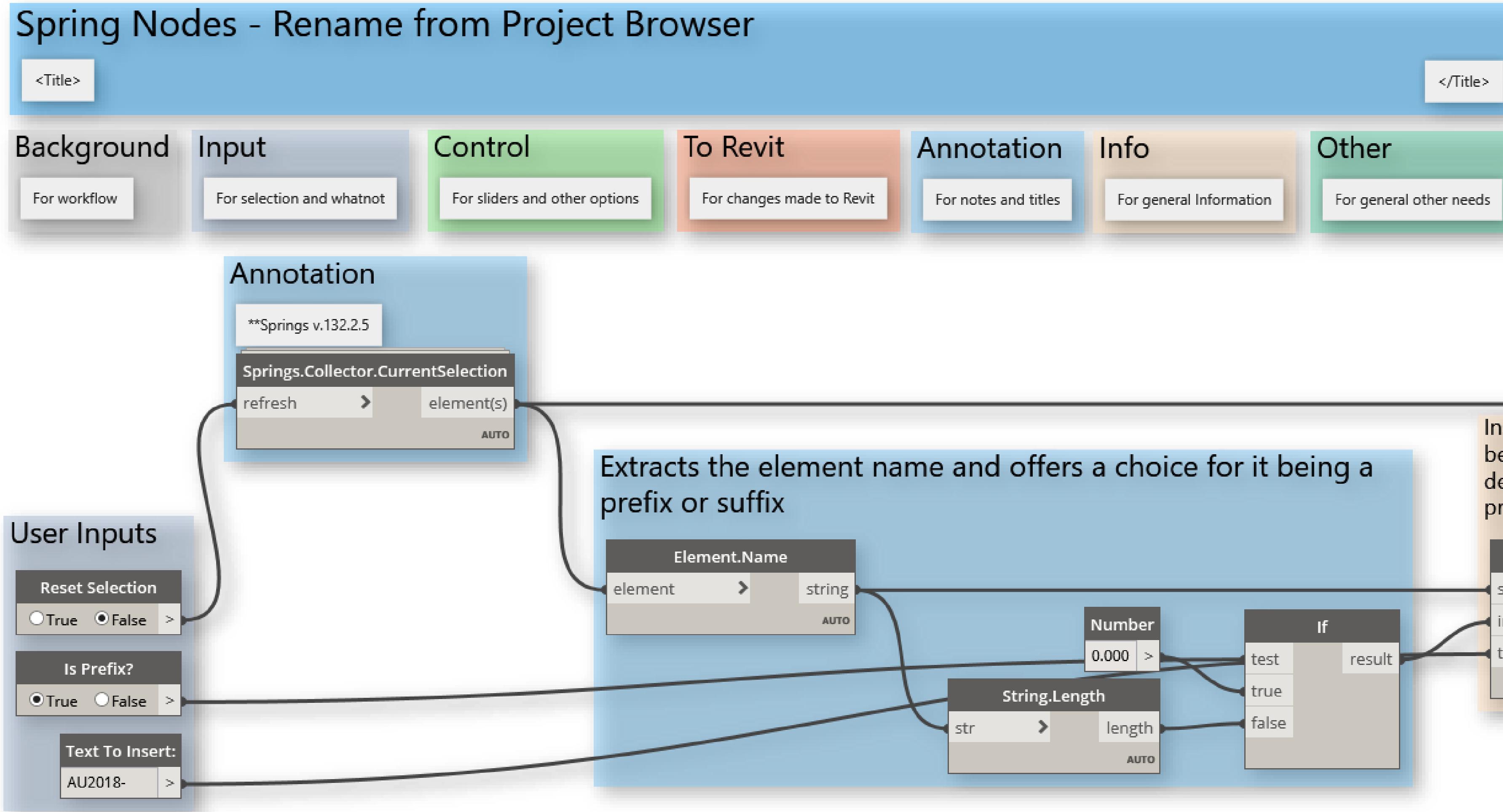


Either Or



Spring nodes

Author: Dimitar Venkov



SpringsUI

Author: Dimitar Venkov

dimven / SpringsUI

Watch 3

Star 3

Fork 0

I find MVVM hard and Dynamo's implementation of it confusing. The SpringsUI package represents some of my coding brain-farts and work-arounds that worked fine for me. It by no means reflects the *proper way* to do node model development but might hopefully give you some ideas on how to work around an issue.

HOW TO BUILD

- Have Dynamo installed
- If Dynamo is not in the default location (*C:\Program Files\Dynamic\Dynamic Core\1.3*), change the DynPath variable in the *csproj files.
- Have the package installed or use the contents of the included package folder
- Build

WombatDynamo

Author: Andrew Heumann & Brian Ringley

Wombat- Disallow Curtain Wall Joins

<Title>

</Title>

Background

For workflow

Input

For selection and whatnot

Control

For sliders and other options

To Revit

For changes made to Revit

Annotation

For notes and titles

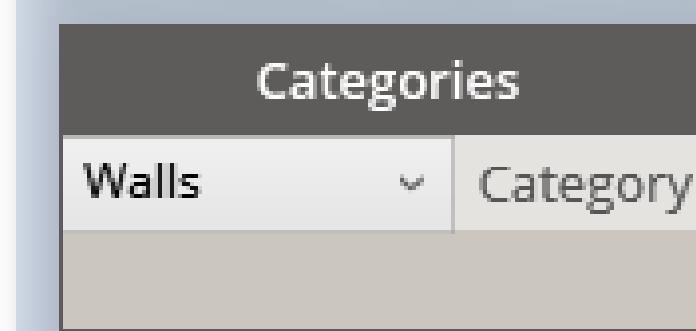
Info

For general Information

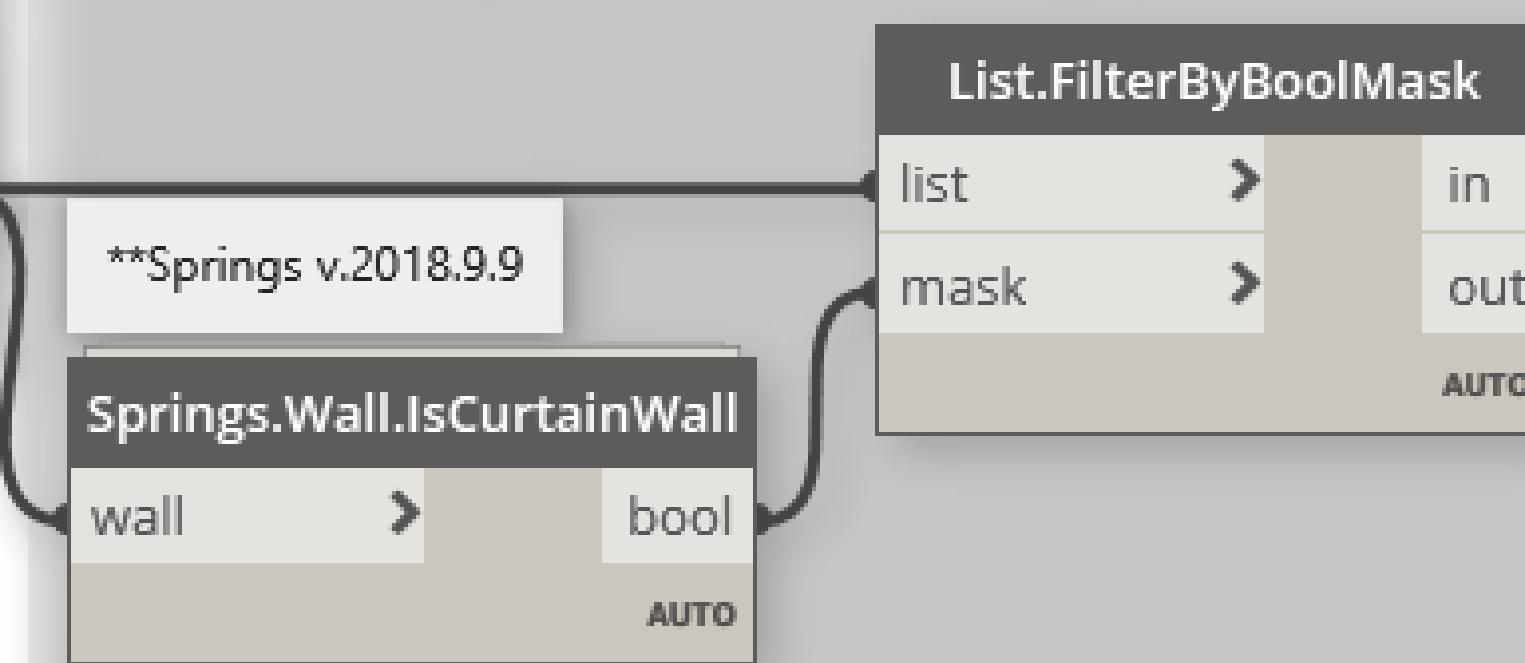
Other

For general other needs

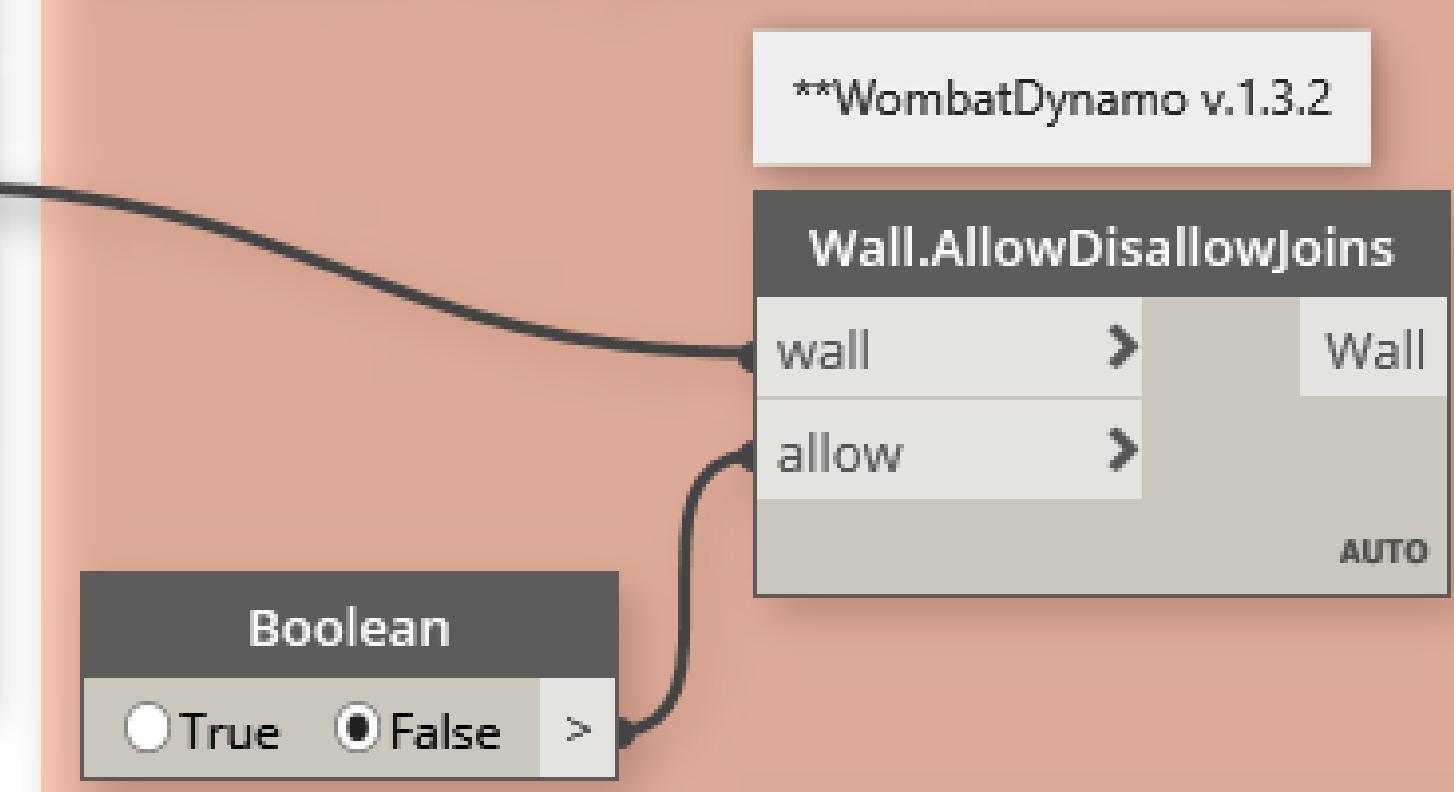
Constantly collects walls



Filters for just curtain walls



Disallow the joins at both ends

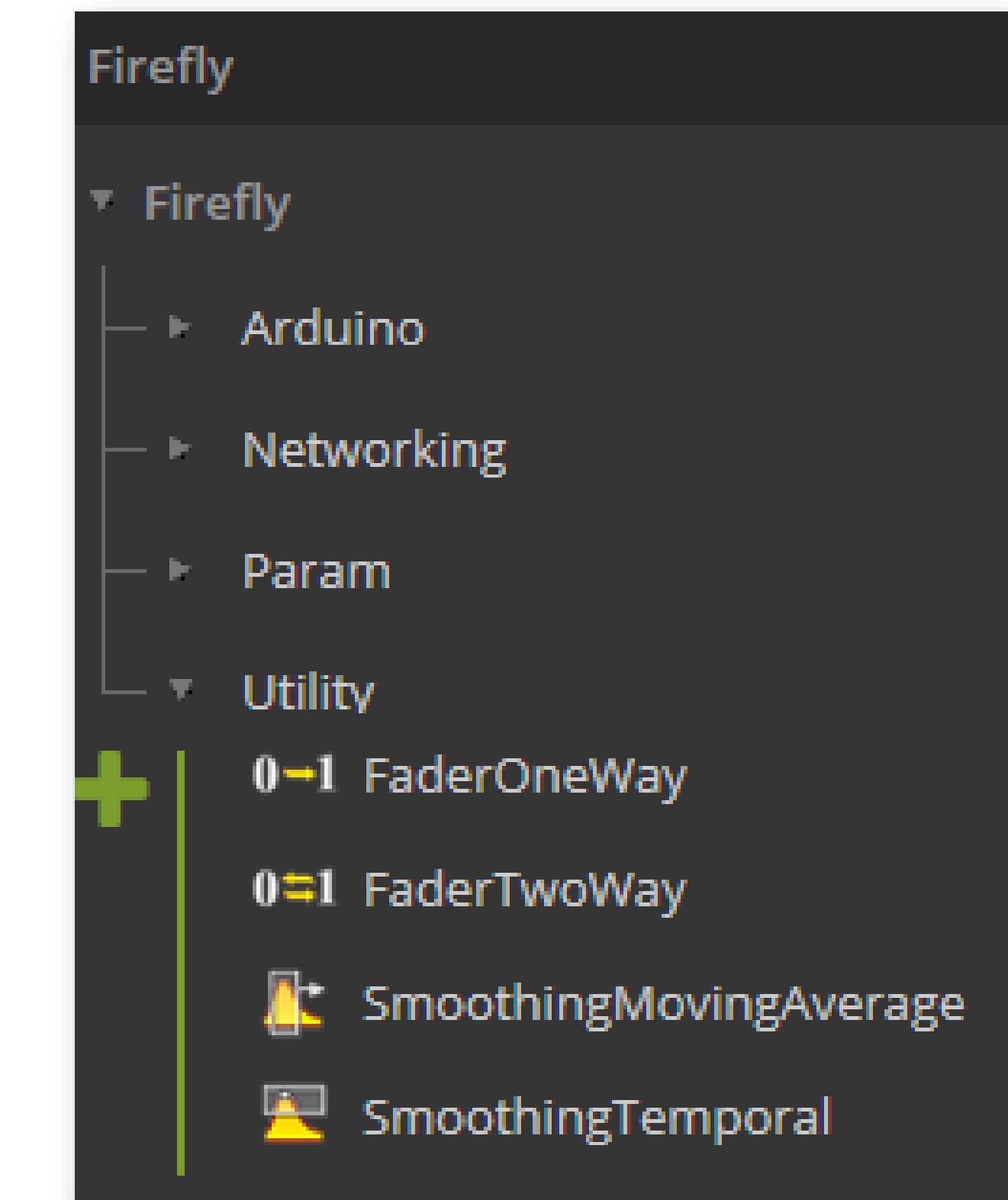
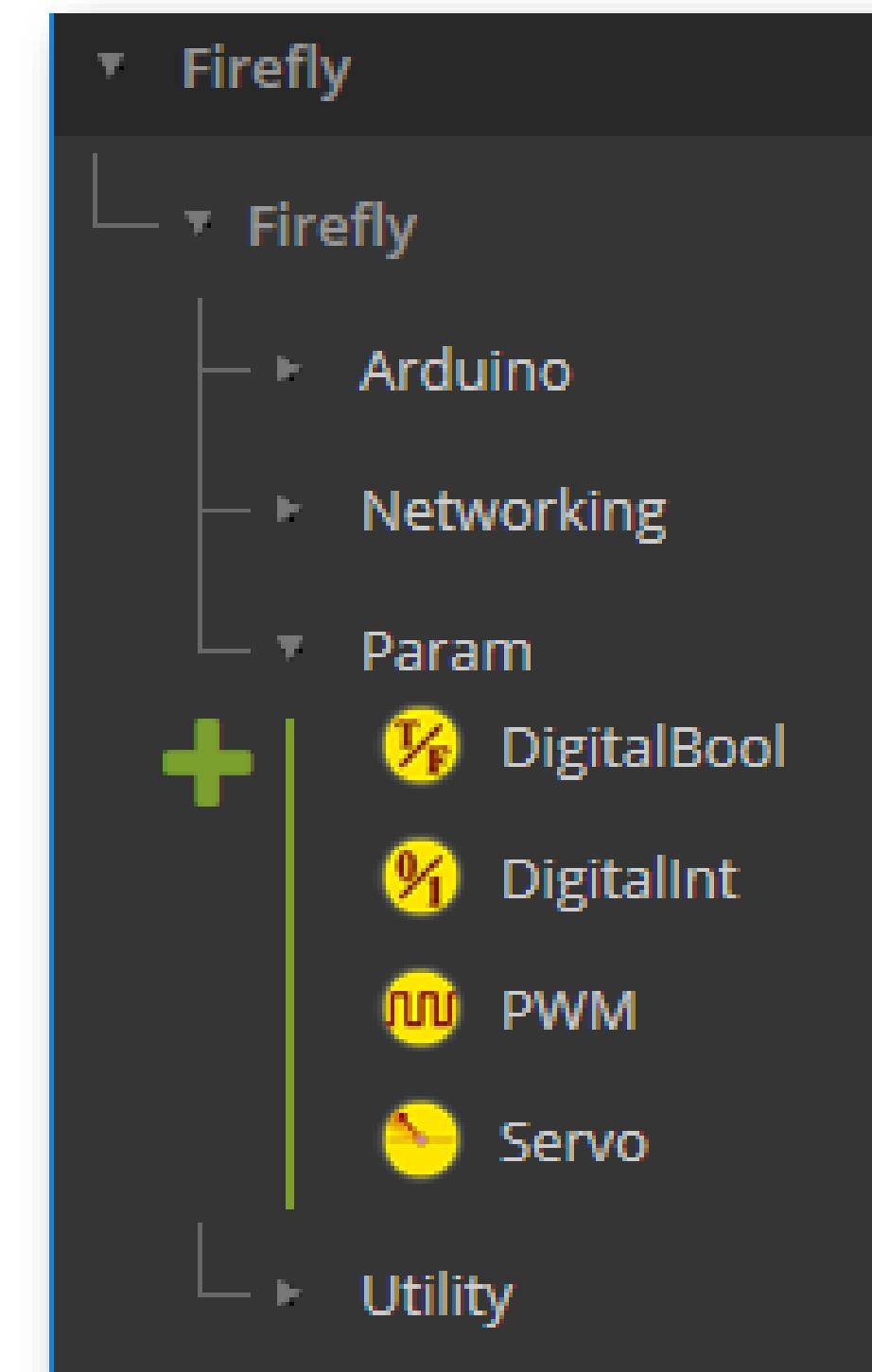
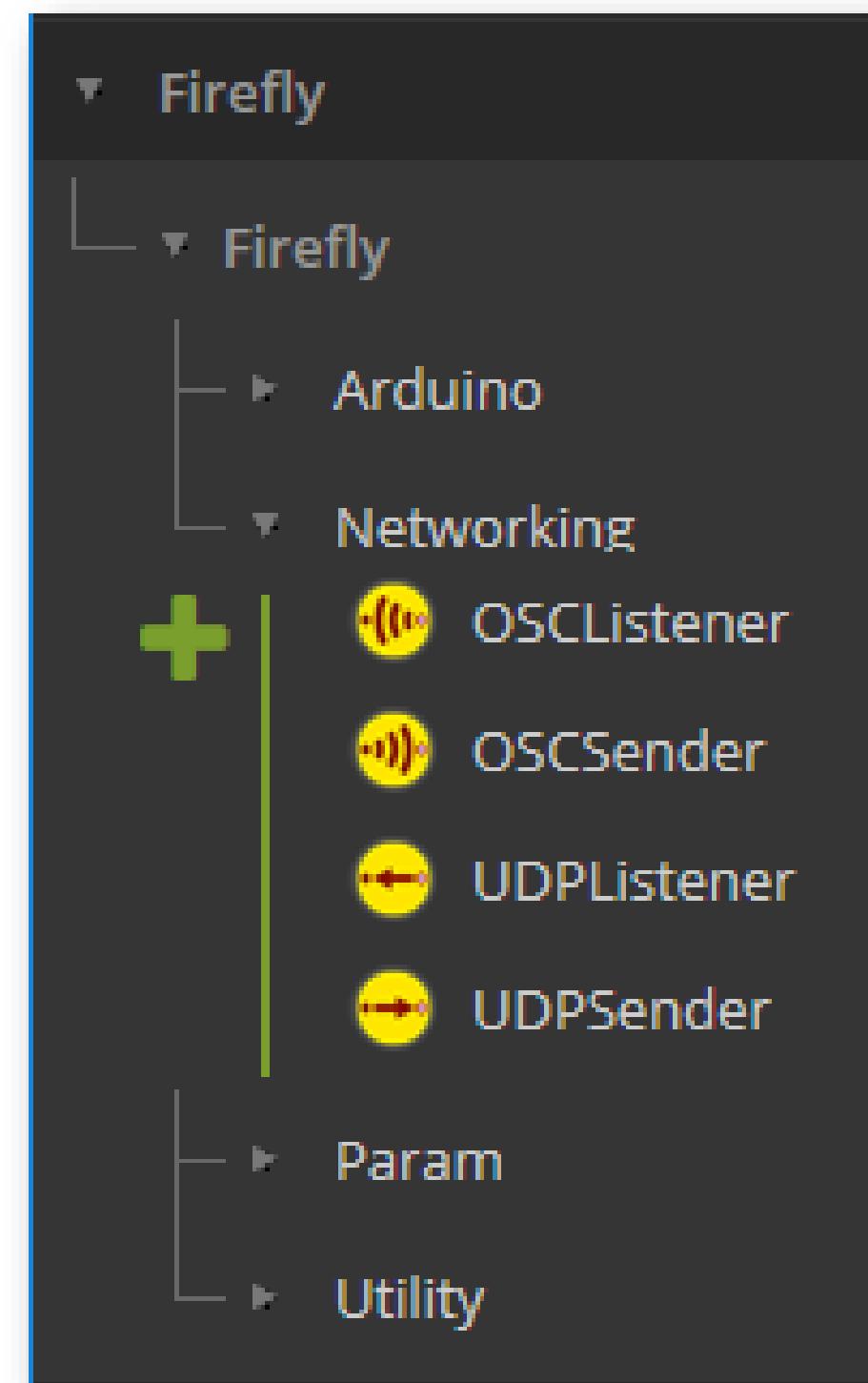
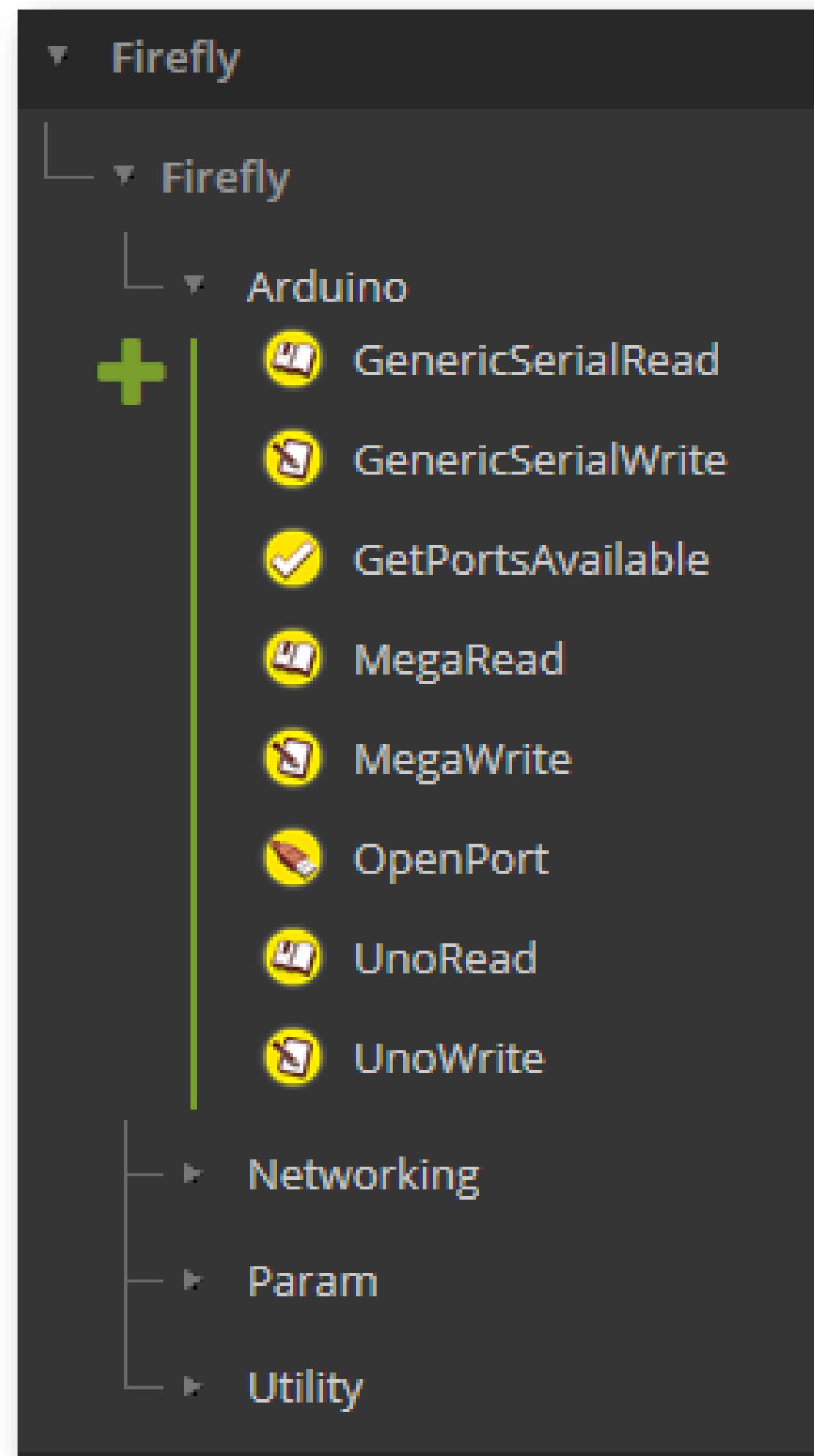


Bonus



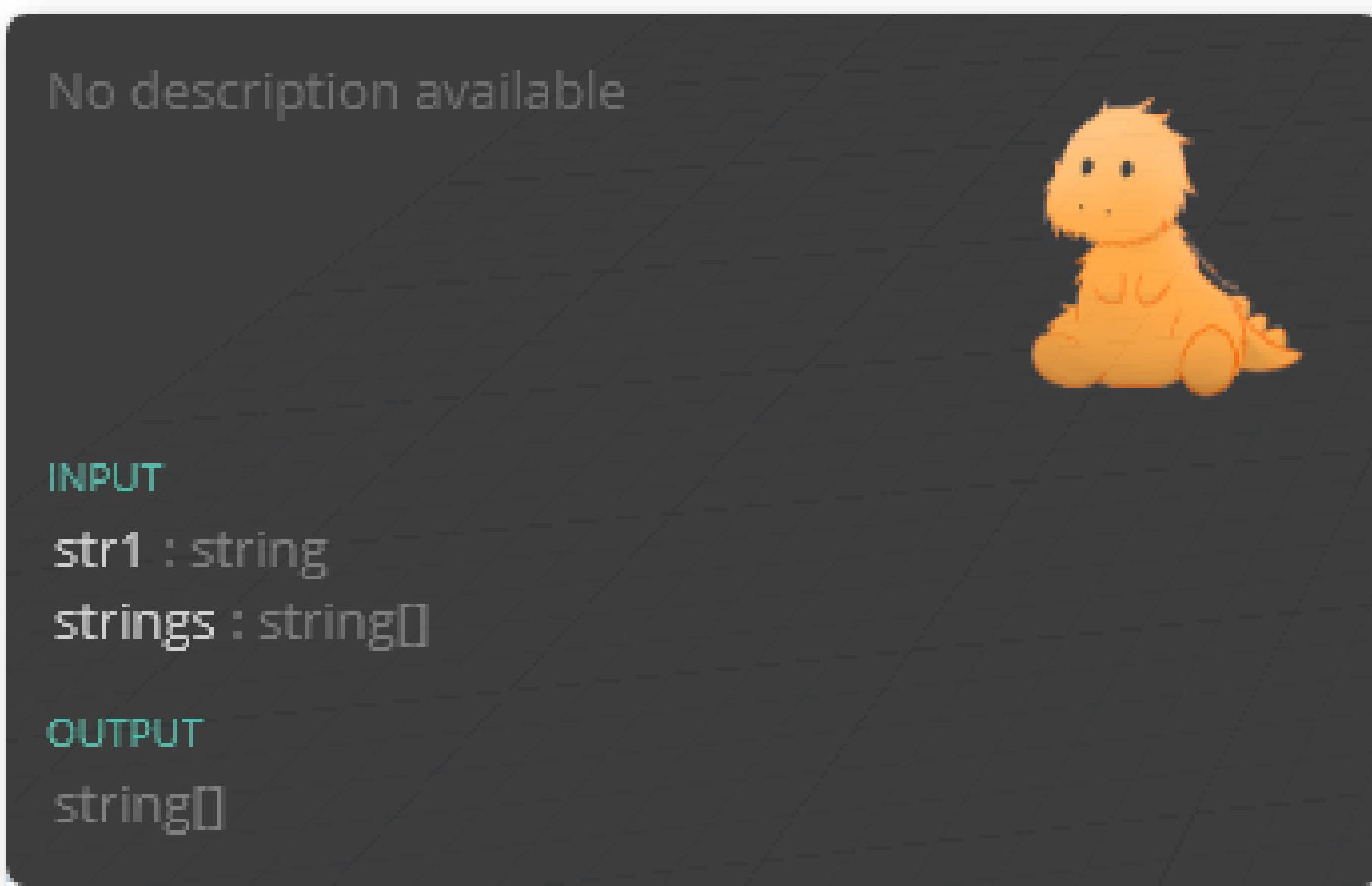
Firefly

Author: Andy Payne



FuzzyDyno

Author: Eric Rudisaile



FuzzyDyno

**FuzzyDyno v.1.5.0

FuzzyStringComparisons.GetBestMatch

str1	➤	string[]
strings	➤	

**FuzzyDyno v.1.5.0

FuzzyStringComparisons.JaroWinkler

str1	➤	double
str2	➤	
ignoreCase	➤	

**FuzzyDyno v.1.5.0

FuzzyStringComparisons.JaccardIndex

str1	➤	double
str2	➤	
ignoreCase	➤	

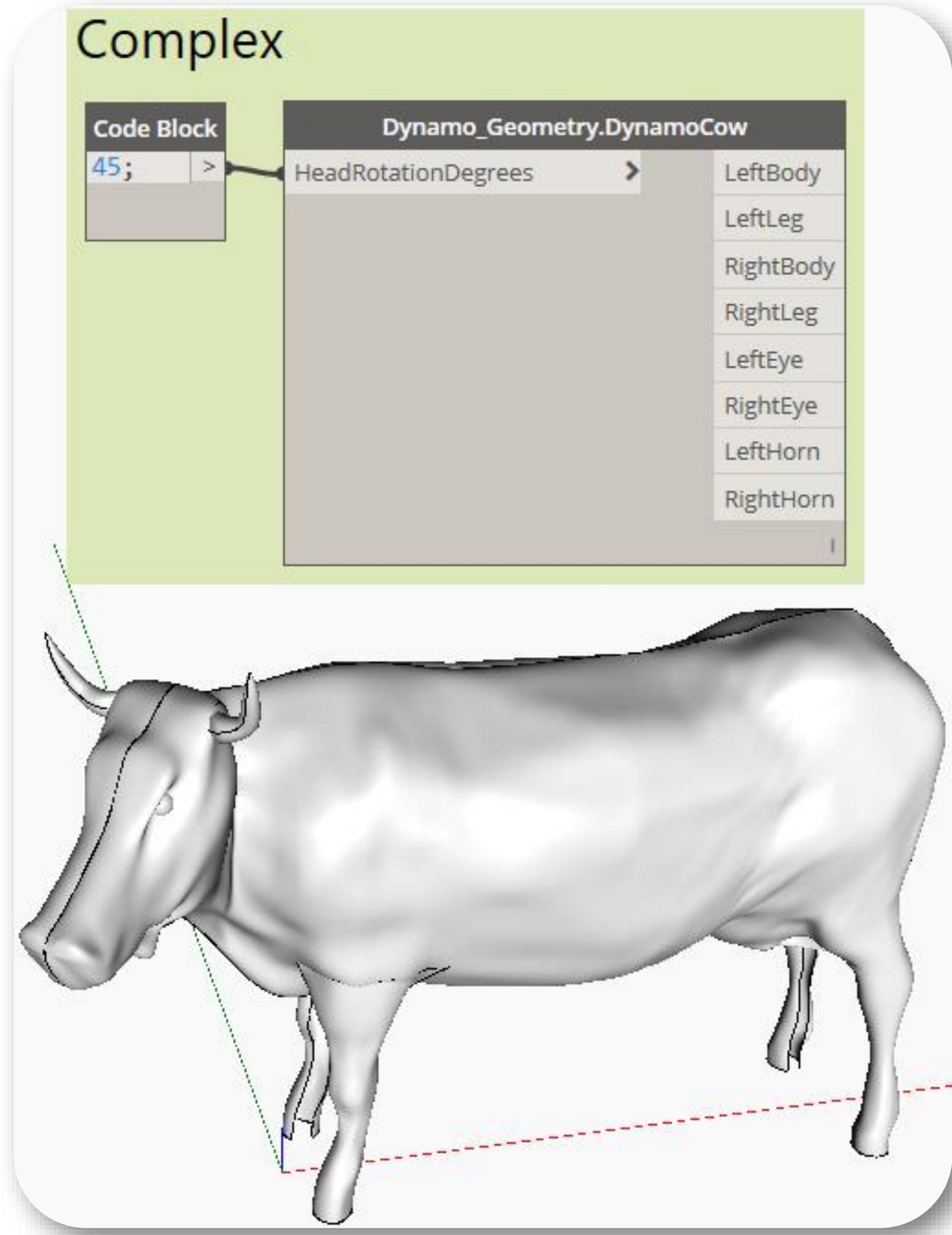
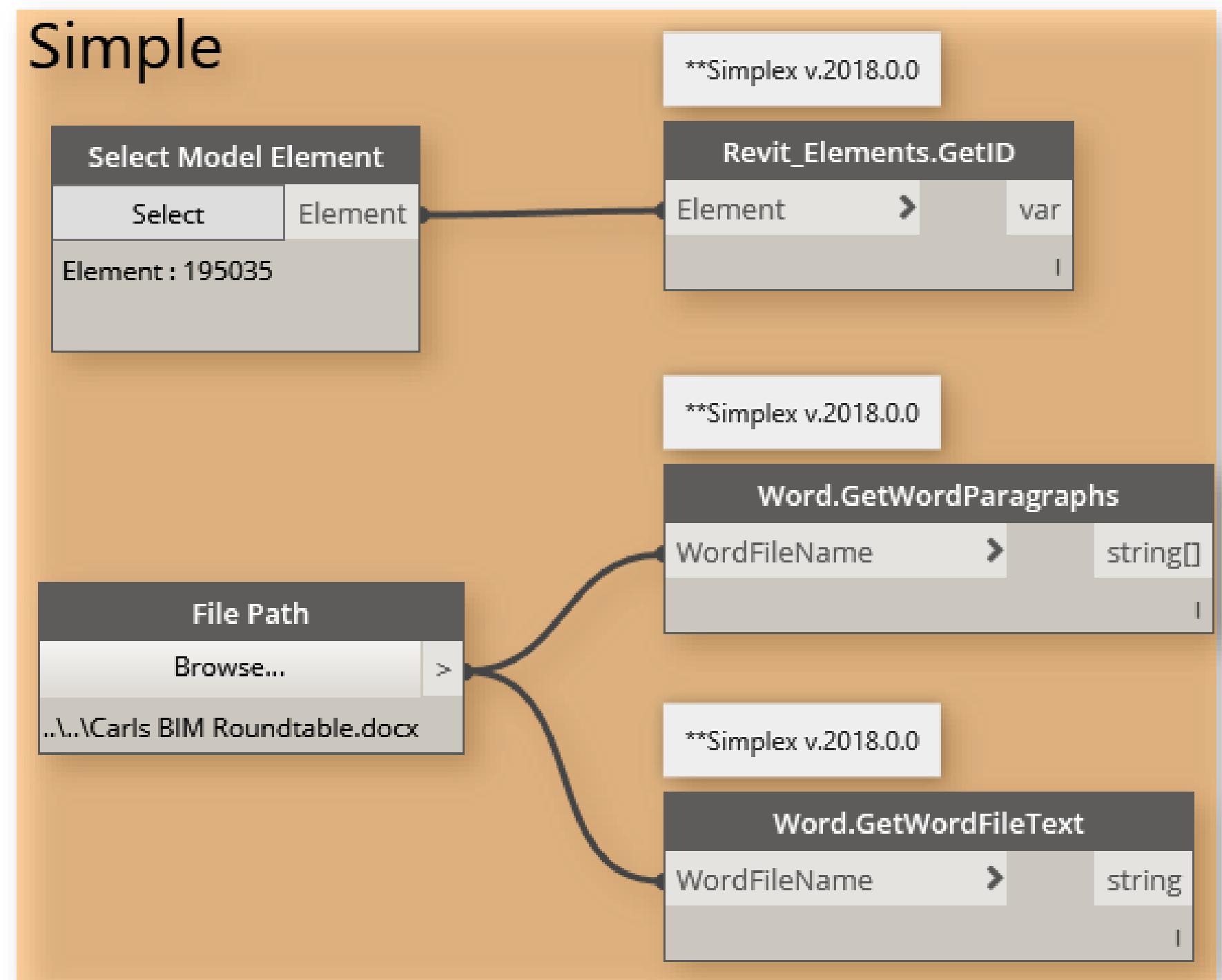
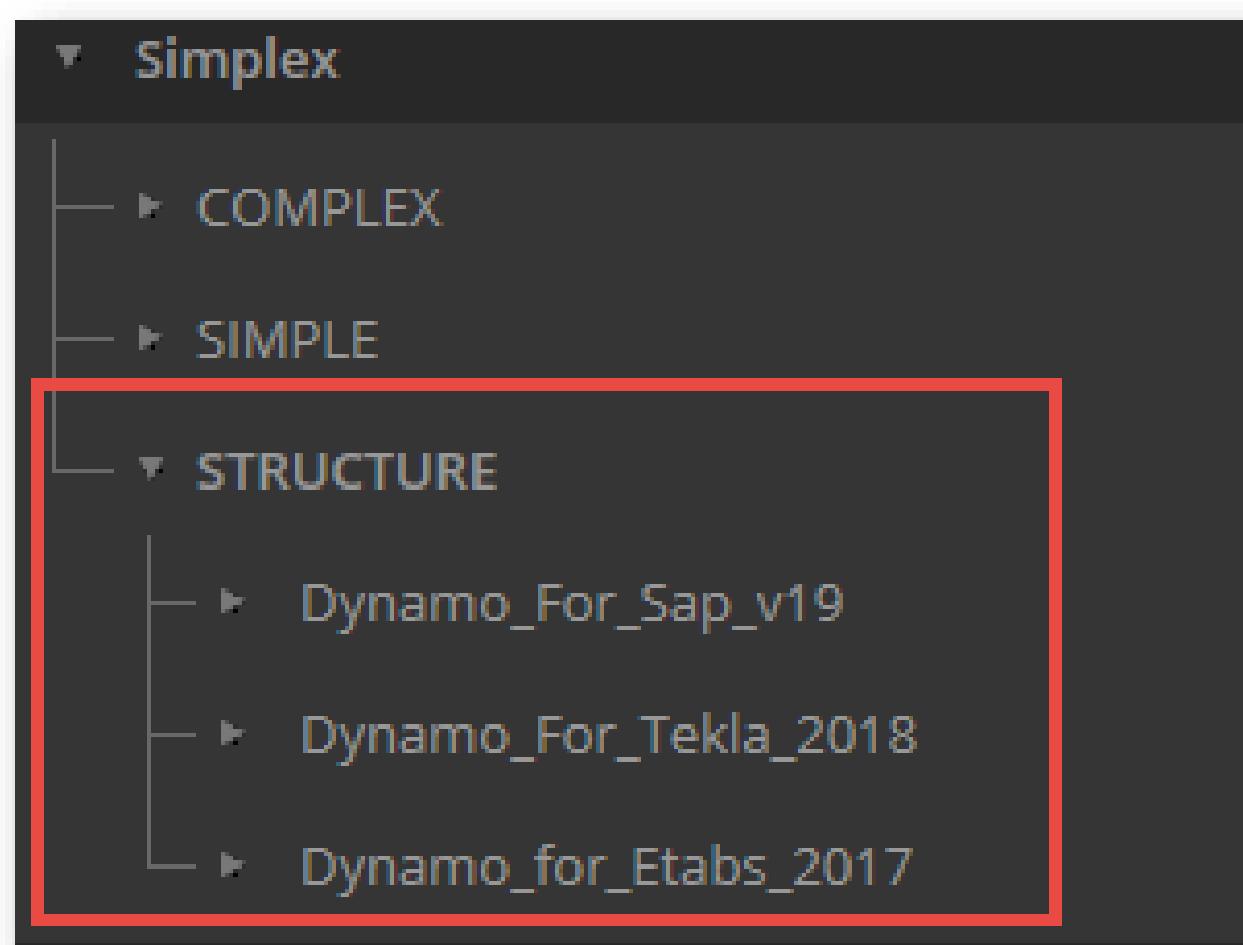
**FuzzyDyno v.1.5.0

FuzzyStringComparisons.LevenshteinDistance

str1	➤	double
str2	➤	
ignoreCase	➤	

Simplex

Author: Marcello Sgambelluri



Author: Konstantin Zhukoven

Zhukoven

**Zhukoven v.2018.8.10

Element.GetRotation

InputVector > Degree
Rotate90 >

**Zhukoven v.2018.8.10

FamilyInstance.VisualizeOrientation

InputElements > Line
Location

**Zhukoven v.2018.8.10

FacadePanel.ImportInLegend

LegendViewPlane > Element
FacadePanel > Point

**Zhukoven v.2018.8.10

Insert.LinkRevit

FilePath > Result

**Zhukoven v.2018.8.10

Navisworks.CreateSearchSet

RevitDataset > Result
SearchSetName >
SearchSetGroup >
XMLfile >
NavisParameter >
NavisPropertiesTab >

**Zhukoven v.2018.8.10

RevitLinks.Reload

Boolean: bool=false > OUT

**Zhukoven v.2018.8.10

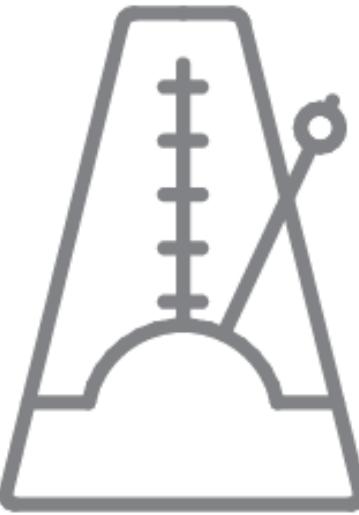
Railing.CountBalusters

railing > Number



@theBIMsider
thebimsider.com

@60secondrevit
sixtysecondrevit.com



Questions?



Make anythingTM

Autodesk and the Autodesk logo are registered trademarks or trademarks of Autodesk, Inc., and/or its subsidiaries and/or affiliates in the USA and/or other countries. All other brand names, product names, or trademarks belong to their respective holders. Autodesk reserves the right to alter product offerings and specifications at any time without notice, and is not responsible for typographical or graphical errors that may appear in this document.

© 2018 Autodesk. All rights reserved.



EXPERT HELP IS HERE

Get help for training, software development,
customization, and more.

IMAGINiT Technologies
is an approved provider on the
Autodesk Services Marketplace

[servicesmarketplace.autodesk.com/provider/public/
imaginit](https://servicesmarketplace.autodesk.com/provider/public/imaginit)

