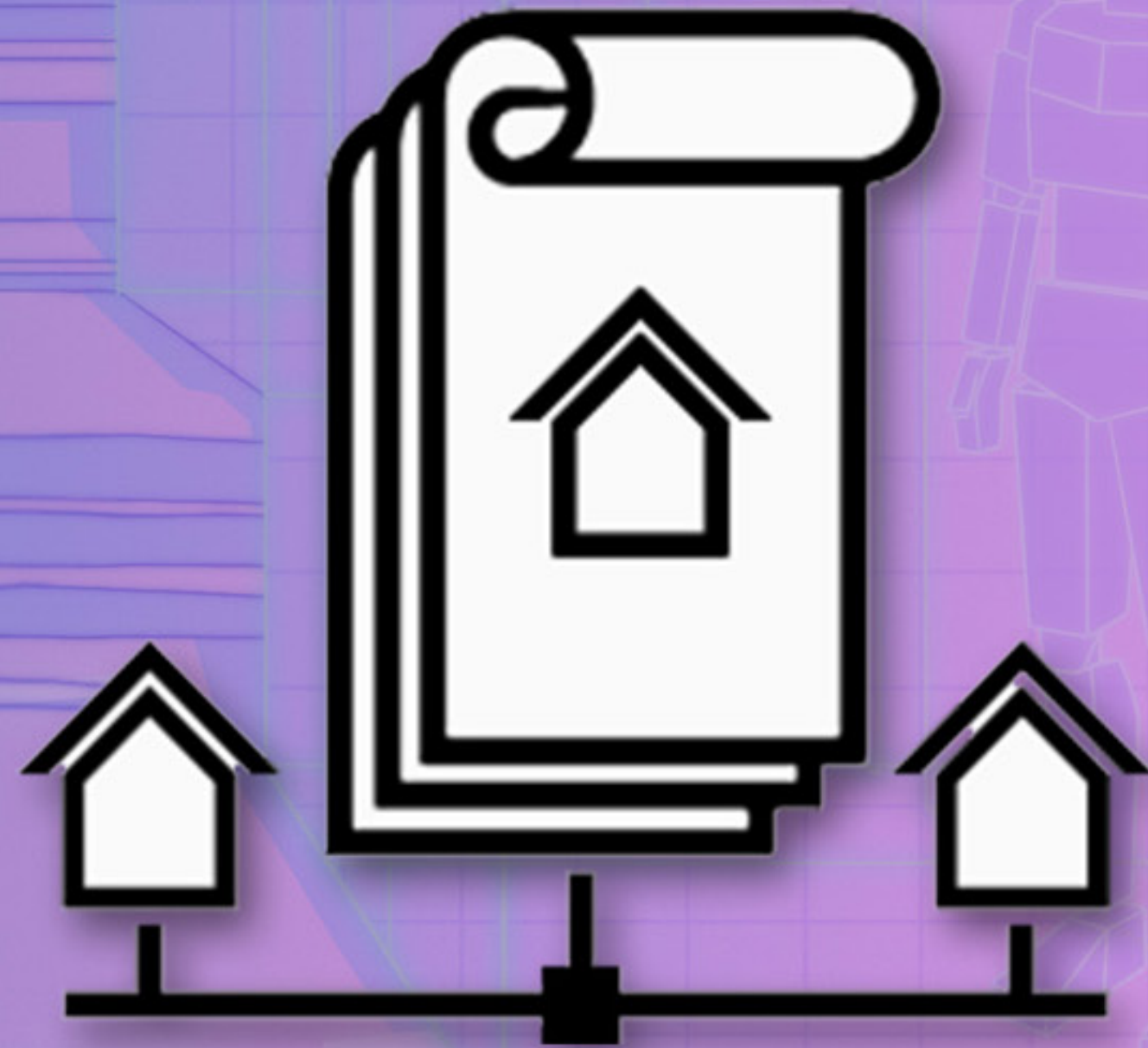
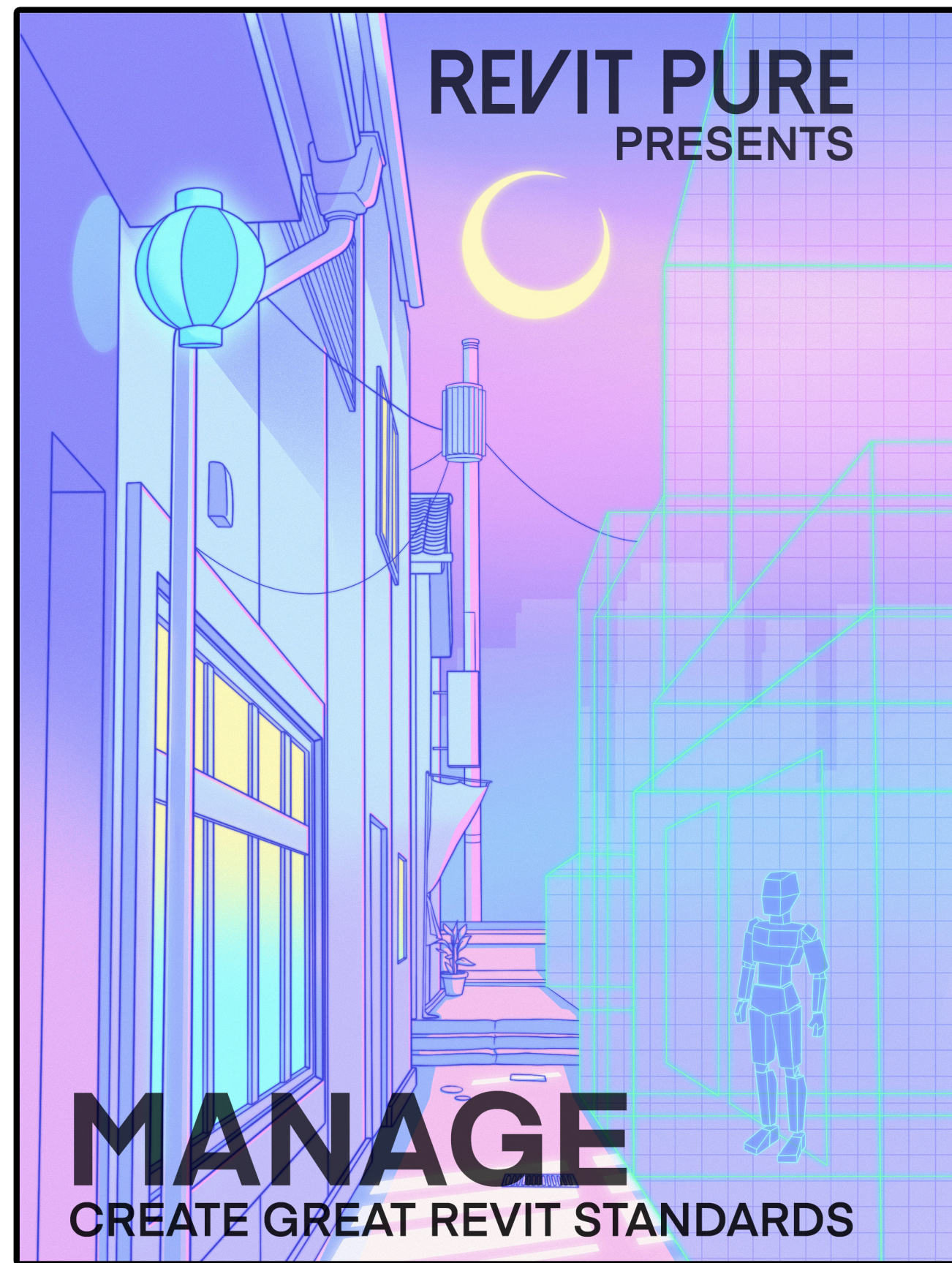


REVIT PURE LIVE #019

Becoming a BIM Manager



MANAGE LEARNING PACKAGE



- ADVANCED COURSE FOCUSED ON
REVIT DATA + STANDARDS

-RELEASED TOMORROW
(SEPTEMBER 16th)

-PRE-ORDER AT revitpure.com/manage



eBOOK
PDF



Video
Tutorials



Pro
Template



Challenges



Dynamo
Scripts



Learning
Portal



Chat
Support



REVIT PURE LIVE #019
NICOLAS CATELLIER

MY EXPERIENCE

- Started implementing Revit in 2012 in a 100% AutoCAD firm.
- Mid-size, about 25 employees.
- Slow + iterative process, adapt to the pace of users.
- Template + standards are continually evolving.



REVIT PURE LIVE #019
NICOLAS CATELLIER

BIGGEST CHALLENGES

- User resistance to change: you need empathy.
- Keeping control on standards while giving some freedom to users.
- Dealing with outdated demands from clients (DWG files with specific, complex layer names).
- Dealing with clients, engineers + consultants that don't use BIM/Revit.



REVIT PURE LIVE #019
NICOLAS CATELLIER

BIGGEST SUCCESS AS A BIM MANAGER

- Convincing boss to attend Autodesk University in 2015 :)
- Creating learning session at the office (friday morning ±6 times a year)
- Turning BIM/Revit skeptics into fanatics
- Creating a simple and efficient BIM protocol for new employees
- Lesson: don't wait for instructions, take initiative.



REVIT PURE LIVE #019
NICOLAS CATELLIER

BIGGEST FAILURES AS A BIM MANAGER:

- Going from doing small/medium sized project to a huge project. Hotel + interior waterpark with up to 13 Revit users at the same time.
- Some systems that worked fine on smaller projects didn't work on larger projects.
- Elements disappearing or moved by mistake.
- Tons of garbage, horribly organized project browser, duplicated families, BIM objects stuff.
- Detailing system that worked in theory had major issues.

All these failures helped to improve our standards.



REVIT PURE LIVE #019
NICOLAS CATELLIER

DEALING WITH RELUCTANT USERS

- Spend one-on-one time with them.
- Make sure they start on simple projects with reasonable deadline.
- If you are too busy, find other “BIM champions” that can answer their question at any time.
- Have an internal wiki/FAQ with common mistakes/issues.
- From experience, they are often good AutoCAD users.



REVIT PURE LIVE #019
NICOLAS CATELLIER

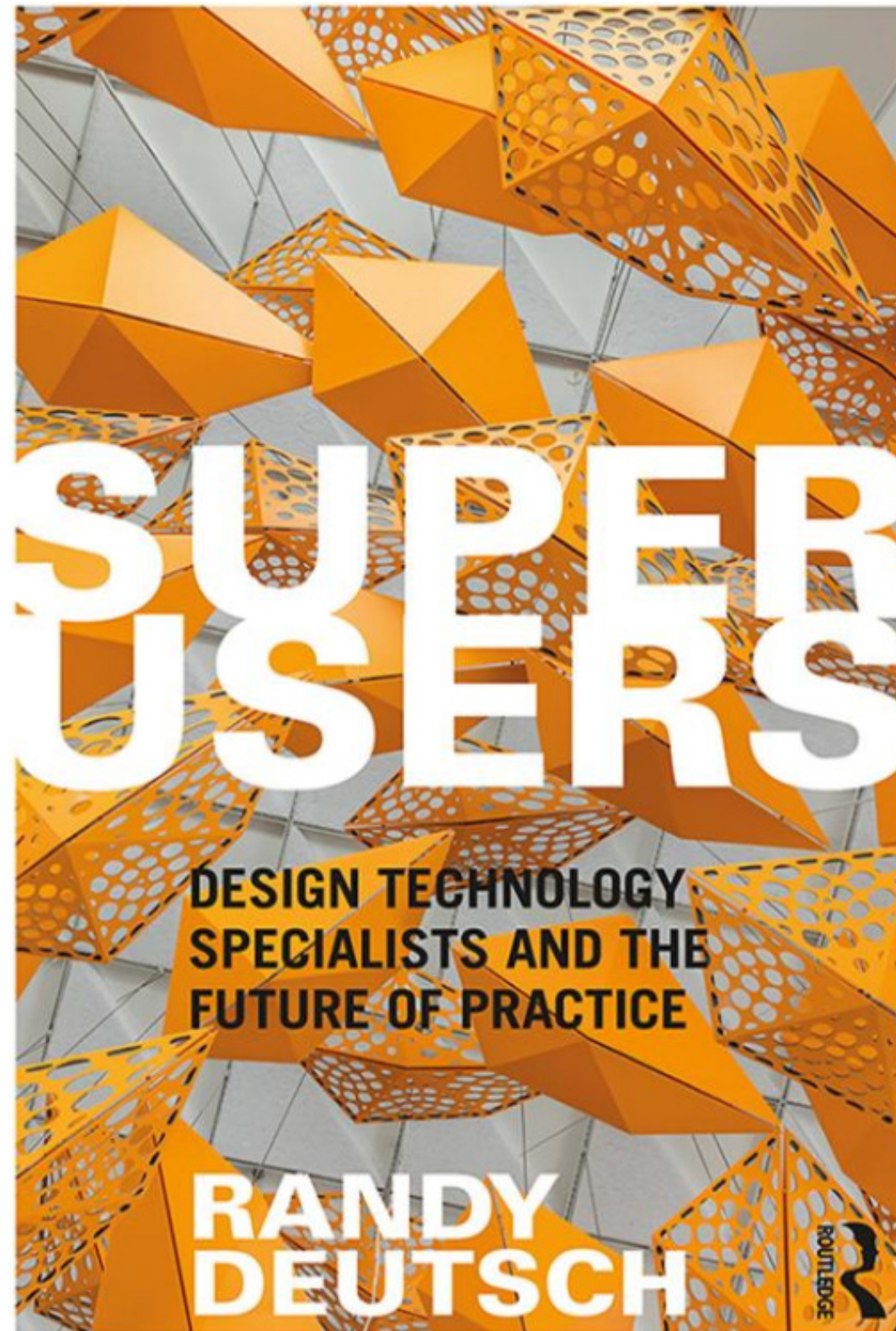
“BIM is not Revit”

- Experience with software helps to understand the potential of BIM.
- The pitfalls of “Bureaucracy Information Modeling”.
- Endless protocols and complicated collaboration processes can scare smaller firms.
- An iterative approach helps.



REVIT PURE LIVE #019
NICOLAS CATELLIER

SUPERUSER & BIM MANAGERS



- Watches Revit & Dynamo tutorials at night
- Attends local user groups and conferences
- Shares knowledge online
- High-value, retention issues in the AEC industry



REVIT PURE LIVE #019
NICOLAS CATELLIER

INFORMATION IS THE KEY TO BIM MANAGERS

- The difference between a BIM Manager to most Revit users is the focus on **Information** instead of **Modeling**.
- A good BIM manager must research and master the tools related to the **Information** part of BIM.
- A good BIM manager also master standards creation, model health and communication.

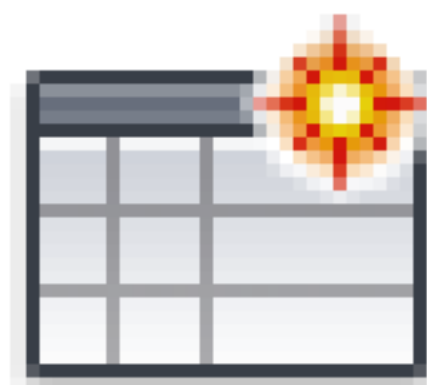


REVIT PURE LIVE #019
NICOLAS CATELLIER

THE HOLY TRINITY OF BIM MANAGERS



PARAMETERS



SCHEDULES



























DYNAMO



REVIT PURE LIVE #019
NICOLAS CATELLIER

MASTERING PARAMETERS



TYPE OF PARAMETER	USED IN:	 CAN BE TAGGED?	 CAN BE SCHEDULED?
SYSTEM 	 FAMILIES  PROJECT		
PROJECT 	 PROJECT		
FAMILY 	 FAMILIES		
SHARED 	 FAMILIES  PROJECT		
GLOBAL 	 PROJECT		



REVIT PURE LIVE #019
NICOLAS CATELLIER

MASTERING SCHEDULES

DOOR SCHEDULE									
NO.	ROOM		DOOR				FRAME		
	FROM ROOM	TO ROOM	TYPE	HEIGHT	WIDTH	MATERIAL	FIRE RATING	MATERIAL	TYPE
LEVEL 1									
98	101	104	P2	2134	750	DOOR MAT1	1H	FR. MAT1	F1
101	100	101	P2	2134	750		1H		
102	100	102	P2	2134	750		1H		
103	102	103	P2	2134	750		1H		

FURNITURE SCHEDULE			
MARK	DESCRIPTION	Comments	IMAGE
F1	ROUND TABLE 915mm	Table at corner	
F2	ROUND TABLE 915mm	Table at the center	

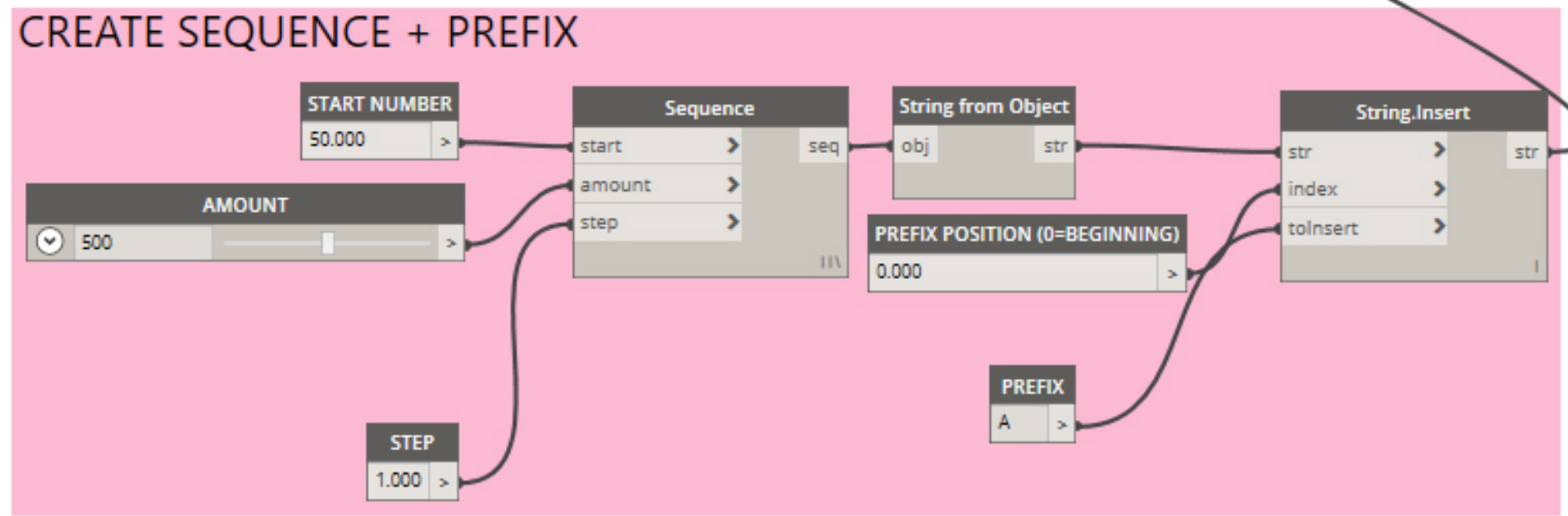
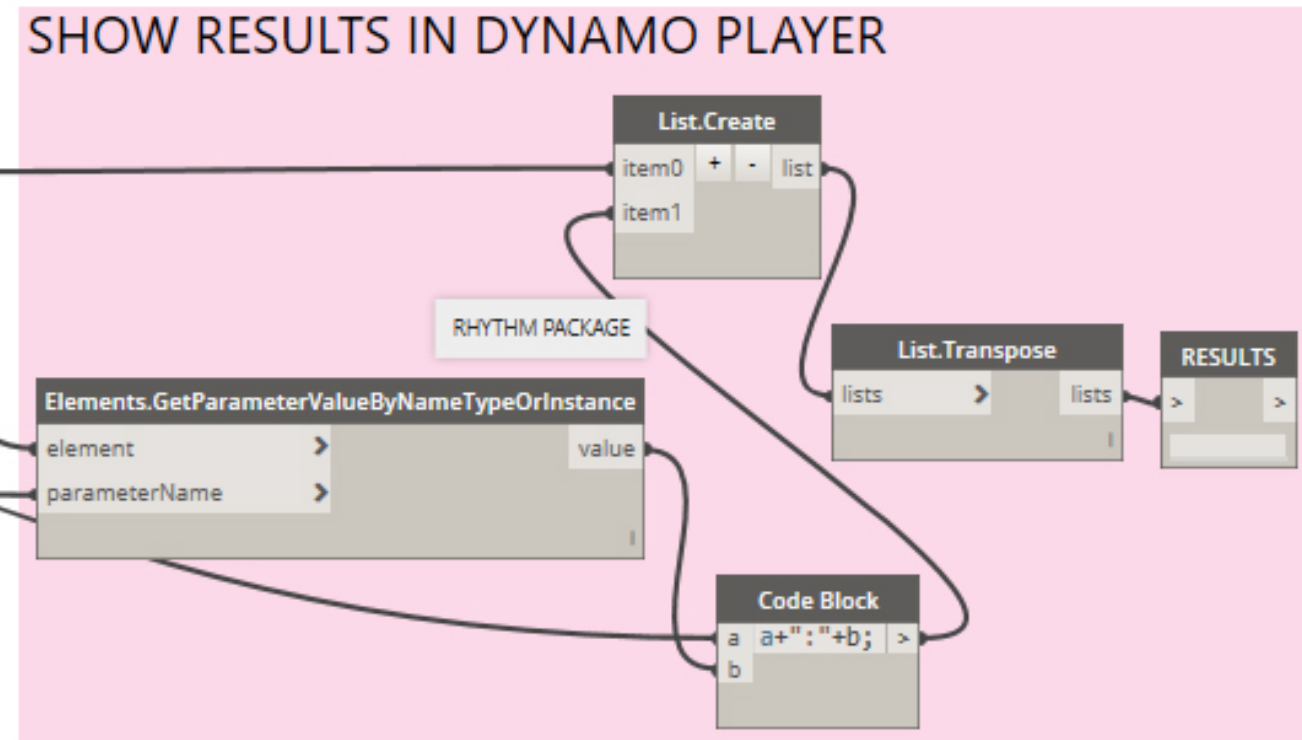
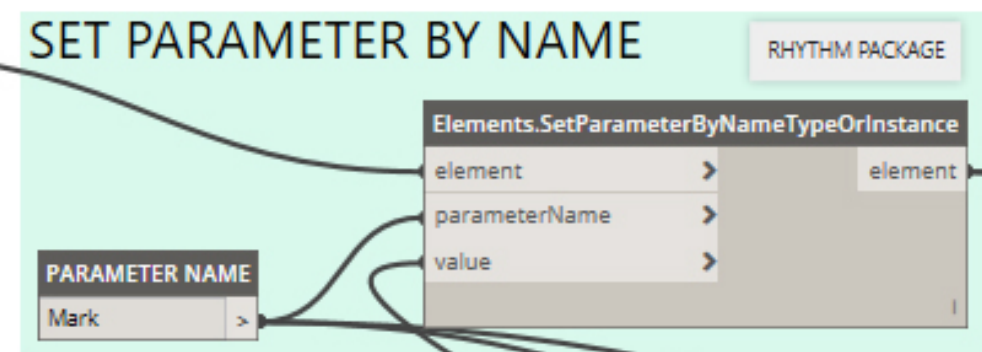
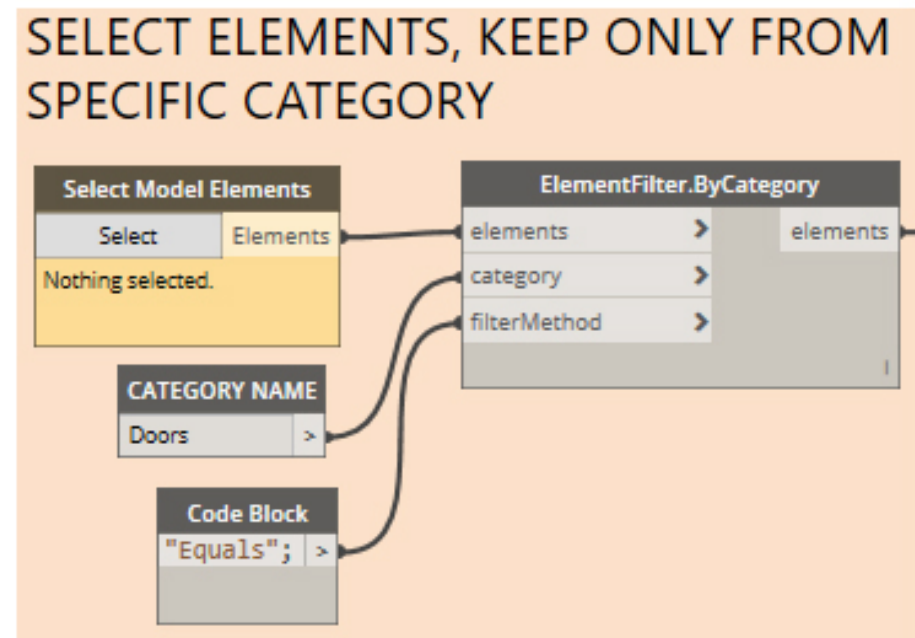
WINDOWS SCHEDULE					
Mark	NO.	ROOM	TYPE	SIZE (w x h)	REMARKS
LEVEL 1					
F1	FX1	APPLE ROOM	CASEMENT	915 mm x 1830 mm	
F2	FX1	LOCKER	CASEMENT	915 mm x 1830 mm	ADD EXTRA TRIM
F3	FX2	CIDER ROOM	GUILLOTINE	406 mm x 610 mm	

ROOM UNITS AREA			
UNITS	AREA		
	SQM	SQFT	PERCENTAGE
Unit 1	15.17 m ²	163 SF	63%
Unit 2	8.81 m ²	95 SF	37%
TOTAL ROOMS AREA	23.98 m ²	258 SF	100%



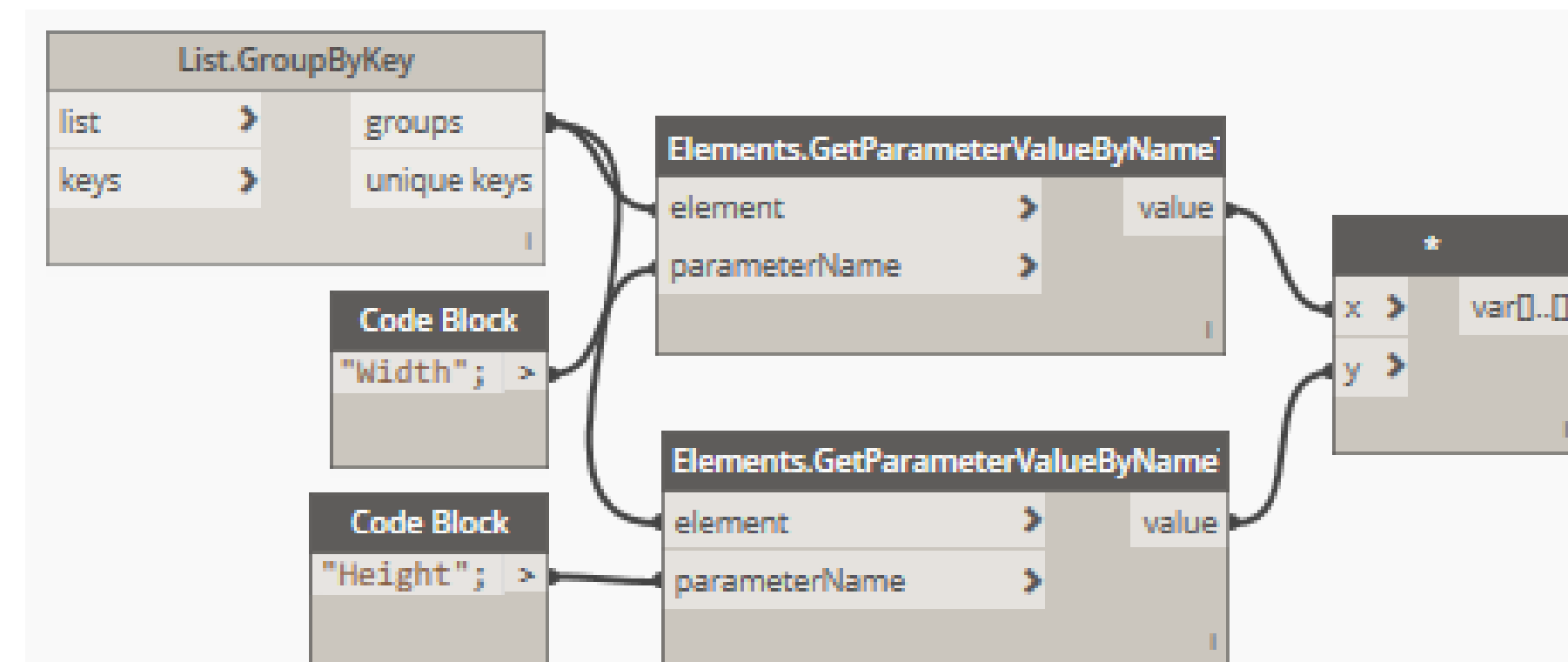
REVIT PURE LIVE #019
NICOLAS CATELLIER

MASTERING DYNAMO



PARAMETERS + SCHEDULES + DYNAMO

<SPATIAL SEPARATION>					
A	B	C	D	E	F
BUILDING SIDE	LIMITING DI	WALL AREA	MAX OPENI	ACTUAL OPE	ACTUAL PERCE
SOUTH	4'-0"	450 SF	12%	75 SF	17%
WEST	17'-0"	600 SF	80%	400 SF	67%
NORTH	5'-0"	450 SF	15%	78.00 SF	17%
EAST	14'-0"	600 SF	65%	0 SF	0%



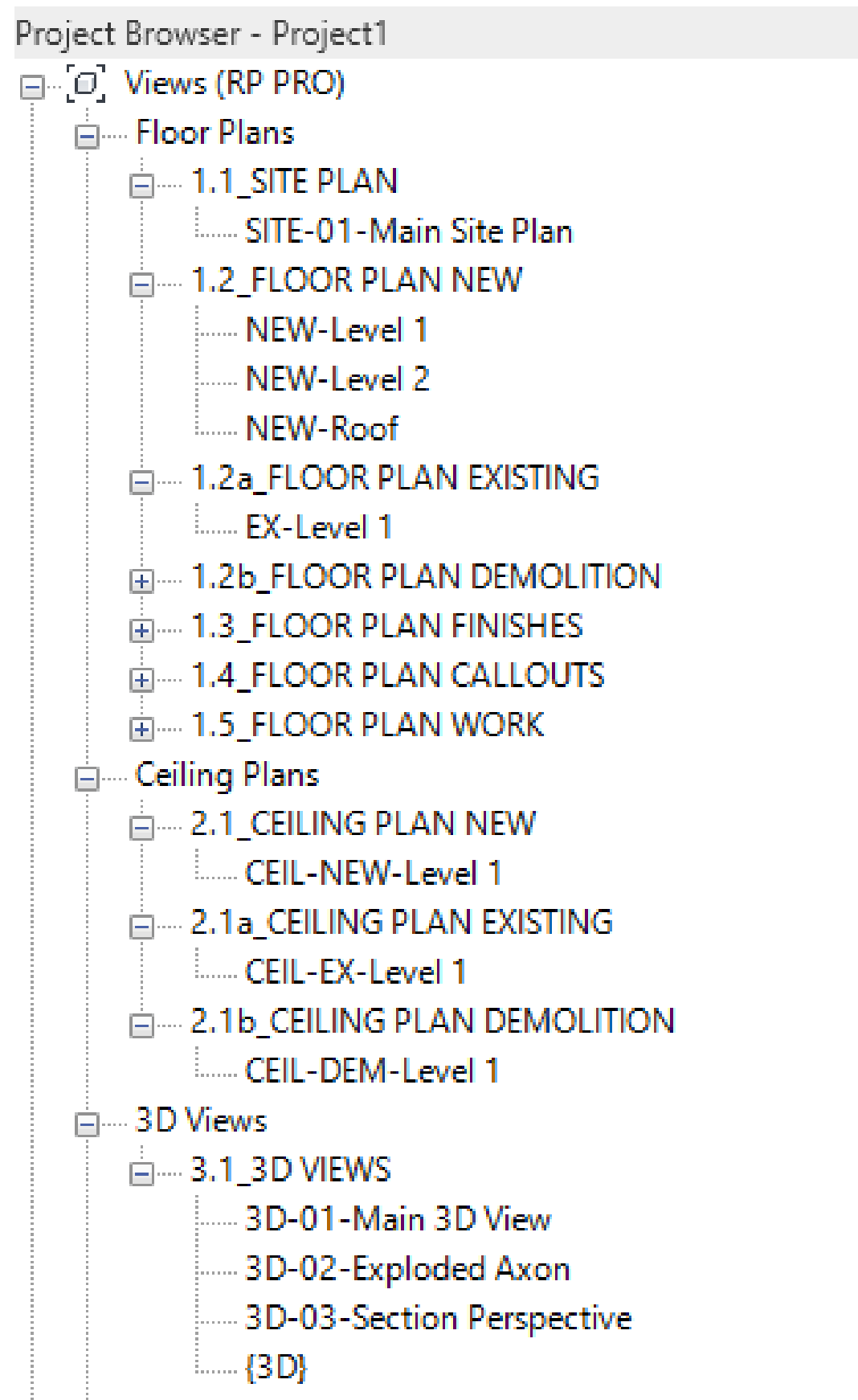
MASTERING FILTERS

Name	Visibility	Projection/Surface			Cut		Halftone
		Lines	Patterns	Transparency	Lines	Patterns	
Finishes Walls / Floors	<input type="checkbox"/>						<input type="checkbox"/>
Presentation Views	<input type="checkbox"/>						<input type="checkbox"/>
Site Floors	<input type="checkbox"/>						<input type="checkbox"/>
Dem Views	<input type="checkbox"/>						<input type="checkbox"/>
Floors & Stairs	<input checked="" type="checkbox"/>		Hidden				<input type="checkbox"/>



REVIT PURE LIVE #019
NICOLAS CATELLIER

CREATING A GREAT TEMPLATE


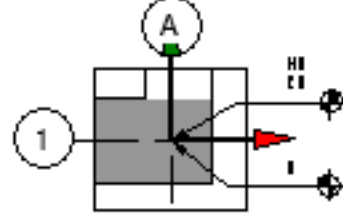


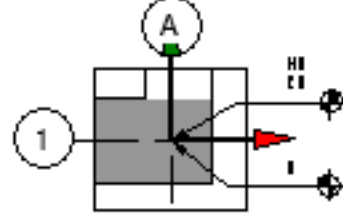


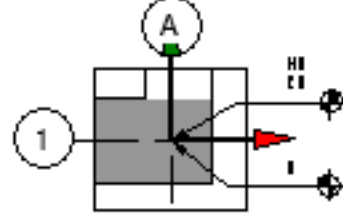




- Creating an organized project browser + view templates.



REVIT PURE LIVE #019
NICOLAS CATELLIER

CREATING A WELCOME PAGE

 <p>Revit Pure PRO Template</p>	<h2>Project Name</h2> <p>PROJECT NUMBER 0001</p>			
<p><u>TEAM COMMUNICATION</u></p> <p>ENTER MESSAGE TO YOUR TEAM HERE</p>	<p><u>CONTACT NAMES</u></p>			
	<p><u>COORDINATE ORIGIN POINTS</u></p> <table border="1" data-bbox="1756 904 2752 1133"><tr><td data-bbox="1756 904 2088 1133"><p>INTERNAL ORIGIN LOCATED AT GRIDS A/1 INTERSECTION</p></td><td data-bbox="2088 904 2436 1133"><p>PROJECT BASE POINT VALUES SHOULD BE: ELEVATION: 0 N 0 E 0</p></td><td data-bbox="2436 904 2752 1133"><p>SURVEY POINT VALUES SHOULD BE: ELEVATION: 0 N 0 E 0</p></td></tr></table>	 <p>INTERNAL ORIGIN LOCATED AT GRIDS A/1 INTERSECTION</p>	 <p>PROJECT BASE POINT VALUES SHOULD BE: ELEVATION: 0 N 0 E 0</p>	 <p>SURVEY POINT VALUES SHOULD BE: ELEVATION: 0 N 0 E 0</p>
	 <p>INTERNAL ORIGIN LOCATED AT GRIDS A/1 INTERSECTION</p>	 <p>PROJECT BASE POINT VALUES SHOULD BE: ELEVATION: 0 N 0 E 0</p>	 <p>SURVEY POINT VALUES SHOULD BE: ELEVATION: 0 N 0 E 0</p>	
<p><u>PROJECT INFORMATION</u></p> <p>Owner</p> <p>Enter address here</p>				



REVIT PURE LIVE #019
NICOLAS CATELLIER

MODEL HEALTH

The image shows a screenshot of the Revit software interface. On the left, the 'Floor Plan' ribbon is active, showing 'Floor Plan: NIVEAU 1' and a 'View Scale' of '1 : 100'. The main view is a floor plan with a red rectangular boundary. On the right, the 'Line Style' dropdown menu is open, showing a list of styles including 'RP-1-Red', '7- 1.4mm', '8 - 2.0mm', '9 - 3.0mm', '200', '200-2D-ONLY', '201', '202', '204', '204-2D-ONLY', '204-KCL-SHSIZE', '205', '206', '206-KCL-DS', '350', '450', '470', and '<Beyond>'. The '202' style is highlighted. Below the main view, a properties window for 'ecospace-simplex.rfa' is open, showing a 'Size' of '9.48 MB (9,940,992 bytes)' and '???' next to it.



WARNINGS

Autodesk Revit 2020

Warnings

- + Highlighted elements are joined but do not intersect.
- + Room Tag is outside of its Room. Enable Leader or move Room Tag within its Room.
- + Curtain grid lines must have at least one segment.
- + Could not create Reveal. Sweep position is outside of its wall. Please check sweep parameters.
- + Curve-Based Family is slightly off axis and may cause inaccuracies.
- + Two elements were not automatically joined because one or both is not editable.
- + Highlighted room separation lines overlap. One of them may be ignored when Revit finds room boundaries. Delete one of the lines.
- + There are identical instances in the same place. This will result in double counting in schedules.
- + A wall and a room separation line overlap. One of them may be ignored when Revit finds room boundaries. Shorten or delete the room separation line to

Show More Info Delete Checked...

To highlight an element in the graphics window, select it in this tree.

Most standard view commands work without exiting this dialog.

Export... Close



REVIT PURE LIVE #019
NICOLAS CATELLIER



Family Reviser
by DiRoots



BiM TOOLS
by Sofistik



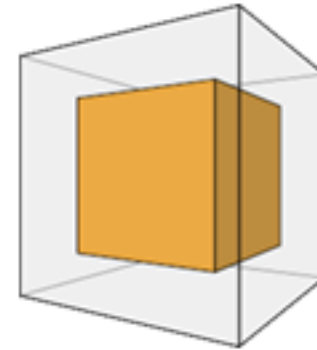
Color Splasher
by BIM One



ParaManager
by DiRoots



PyRevit
by Eshan
Iran-Nejad



Model Checker
by Autodesk



Guardian
by Iconic BIM



Isolate Warnings
by Archisoft



Ideate Explorer
by Ideate



Dynamo
by Autodesk



ProSheets
by DiRoots

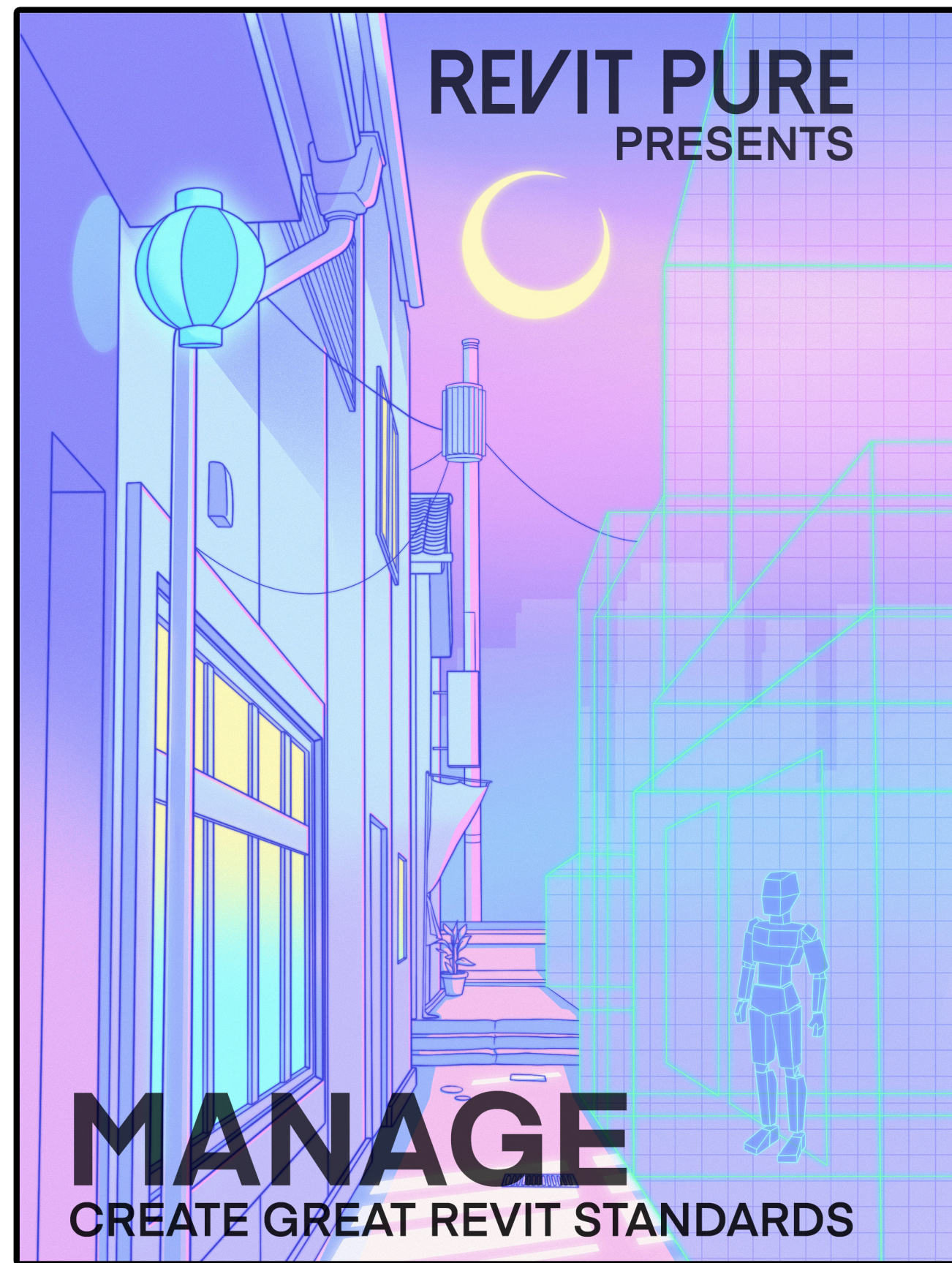


RTV Exporter Pro
by RTV Tools



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