

Dynamo Part 02

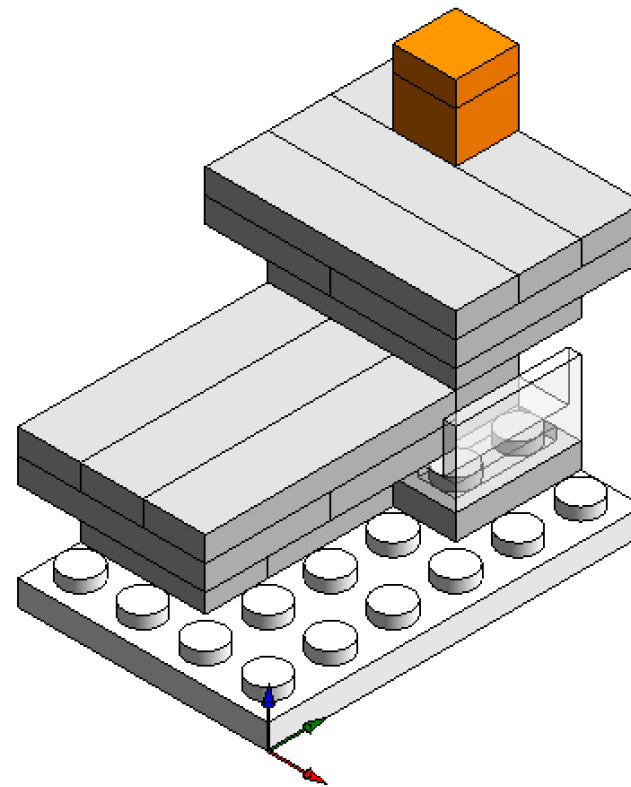
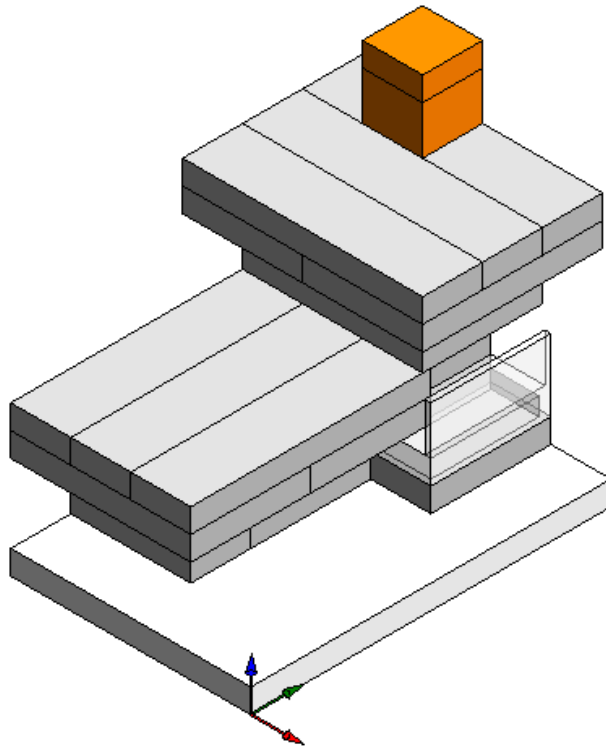
DIM_03

12.09.2024



The Project

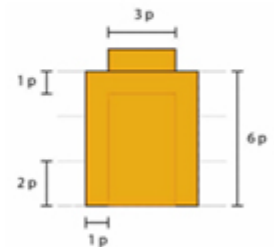
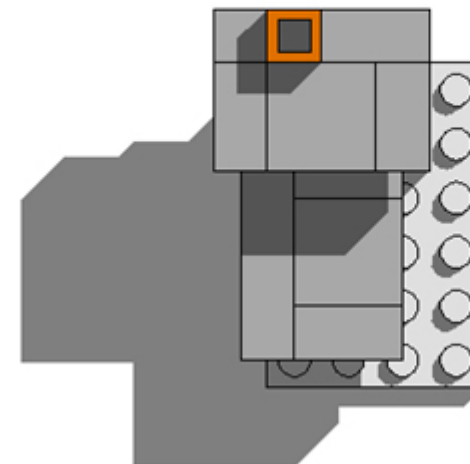
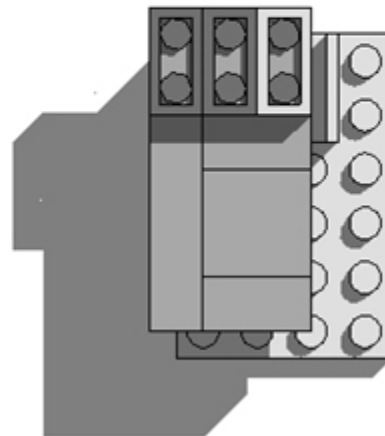
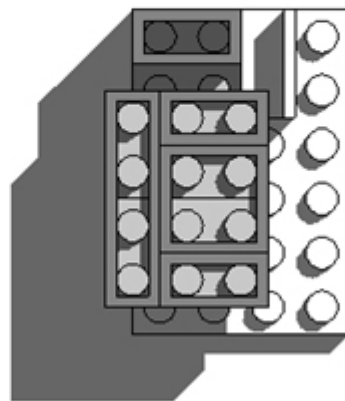
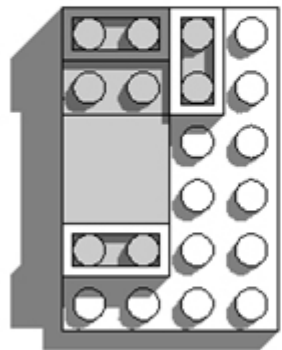
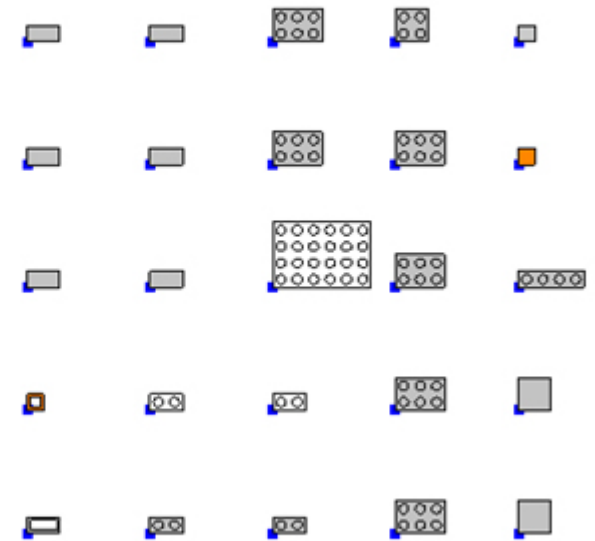
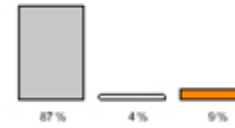
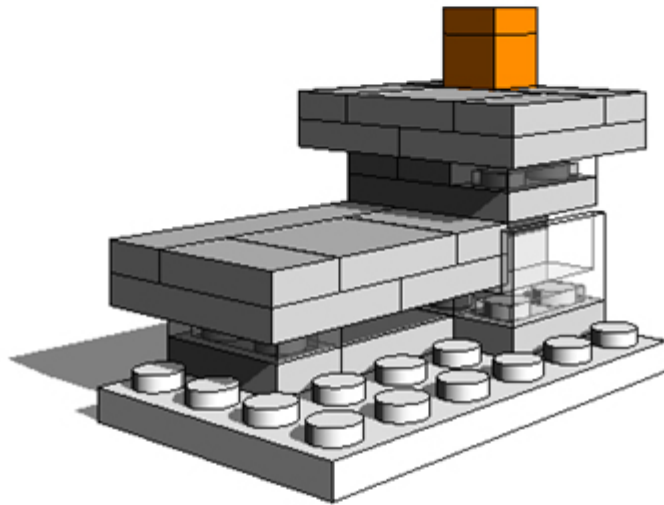
(with and without ,nobs')



Learning from Bricks

Number of bricks: 26

One Brick Project				
Count	Family	Type	Cost (\$/unit)	Weight (g)
1			0.00	0.00
4	oneBrickGeneric	1R_1x1	0.20	0.72
20	oneBrickGeneric	1R_1x2	1.20	7.20
1	oneBrickAngle	1R_1x2	0.15	0.56
2	oneBrickGeneric	1R_1x4	0.15	1.44
6	oneBrickGeneric	1R_2x2	0.60	4.32
12	oneBrickGeneric	1R_2x3	1.20	12.96
2	oneBrickGeneric	1R_4x6	1.20	8.64
2	oneBrickGeneric	2R_1x1	0.14	0.56
2	oneBrickGeneric	2R_1x2	0.00	1.51
52			5.47	25.10

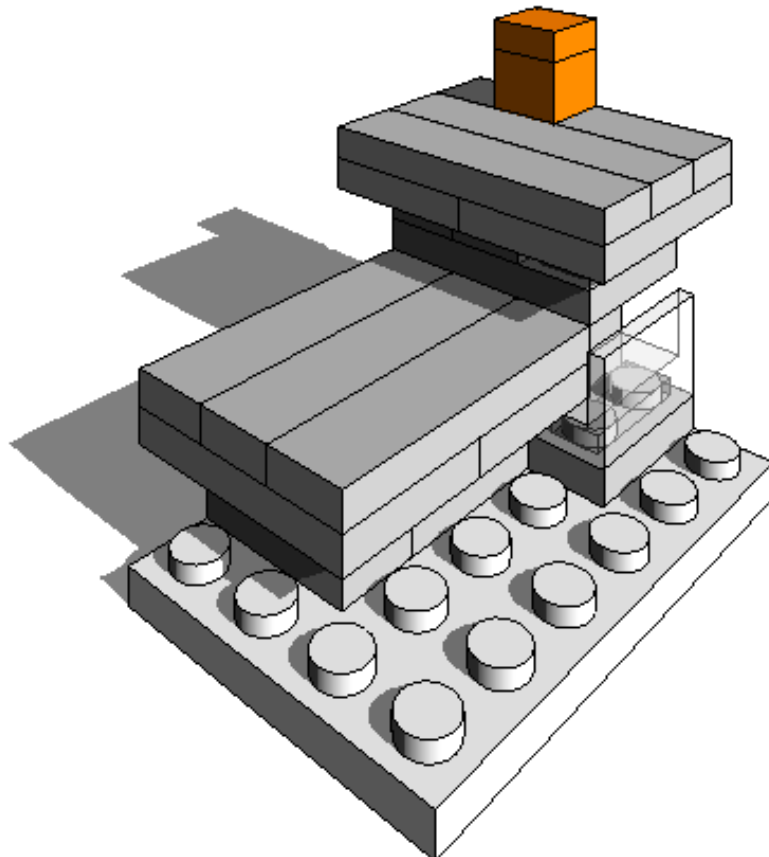
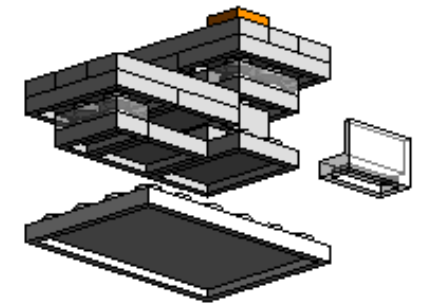
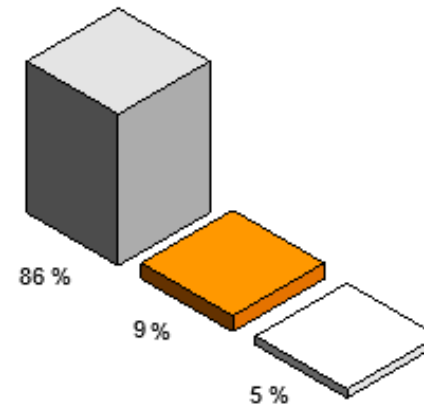


LHouse Data

Number of bricks: 0

Weight of Project: 0

Cost of Project: 0.00

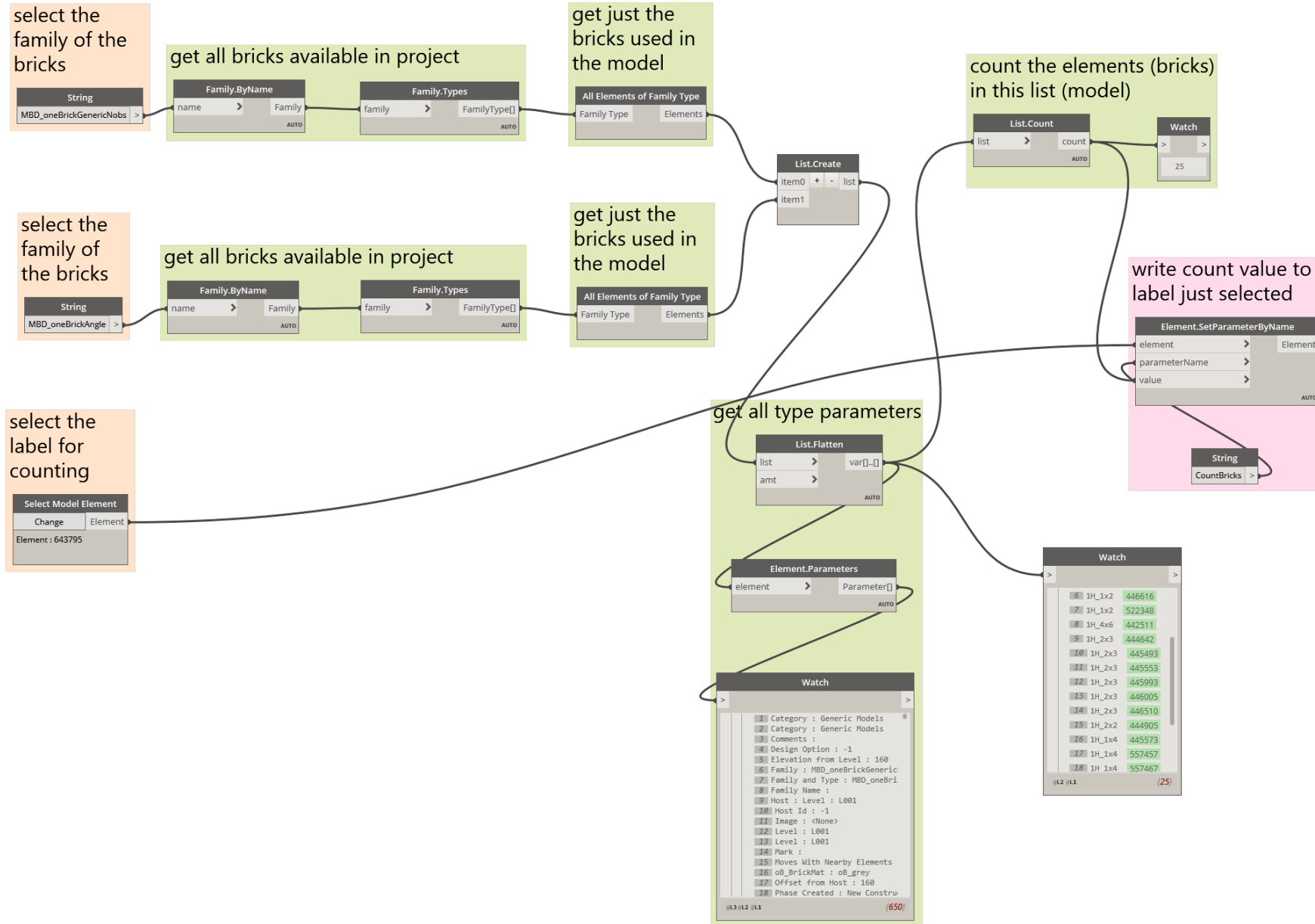


Source: www.bricklink.com

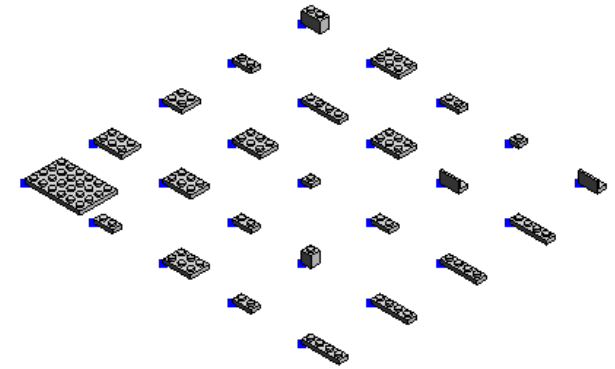
LHouse Data Overview						
Count	Family	Type	Weight (Grams)	Material	Cost (Euro)	Comments
1	oneBrickPlate	1H_1x1	0.13	ob_grey	0.17	
1	oneBrickPlate	1H_1x1	0.13	ob_orange	0.17	
1	oneBrickPlate	1H_1x2	0.36	ob_grey	0.11	
1	oneBrickPlate	1H_1x2	0.36	ob_clear	0.11	
1	oneBrickPlate	1H_1x2	0.36	ob_grey	0.11	
1	oneBrickPlate	1H_1x2	0.36	ob_clear	0.11	
1	oneBrickPlate	1H_1x2	0.36	ob_grey	0.11	
1	oneBrickPlate	1H_1x2	0.36	ob_grey	0.11	
1	oneBrickPlate	1H_1x4	0.54	ob_grey	0.67	
1	oneBrickPlate	1H_1x4	0.54	ob_grey	0.67	
1	oneBrickPlate	1H_1x4	0.54	ob_grey	0.67	
1	oneBrickPlate	1H_1x4	0.54	ob_grey	0.67	
1	oneBrickPlate	1H_1x4	0.54	ob_grey	0.67	
1	oneBrickPlate	1H_2x2	0.5	ob_grey	2.00	
1	oneBrickPlate	1H_2x3	0.93	ob_grey	0.36	
1	oneBrickPlate	1H_2x3	0.93	ob_grey	0.36	
1	oneBrickPlate	1H_2x3	0.93	ob_grey	0.36	
1	oneBrickPlate	1H_2x3	0.93	ob_grey	0.36	
1	oneBrickPlate	1H_2x3	0.93	ob_grey	0.36	
1	oneBrickPlate	1H_2x3	0.93	ob_grey	0.36	
1	oneBrickPlate	1H_2x3	0.93	ob_grey	0.36	
1	oneBrickPlate	1H_4x6	3.3	ob_white	0.25	
1	oneBrickPlate	3H_1x1	0.44	ob_orange	0.05	
1	oneBrickPlate	3H_1x2	0.83	ob_grey	0.38	
1	oneBrickAngle	3H_1x2	0.46	ob_clear	0.78	
1	oneBrickAngle	3H_1x2	0.46	ob_grey	0.78	
Grand total: 25			16.69		10.75	

control Label

Number of bricks: 25



roll out #1



select model elements

Select Model Elements

Change	Elements
442511	444642 444905
445133	445274 445435 445493
445553	445573 445993 446005
446117	446134 446510 446592
446616	485962 522348 526203
554595	

Watch

Item	Type	ID
1	1H_4x6	442511
2	1H_2x3	444642
3	1H_2x2	444905
4	1H_1x2	445133
5	3H_1x2	445274
6	1H_1x2	445435
7	1H_2x3	445493
8	1H_2x3	445553
9	1H_1x4	445573
10	1H_2x3	445993
11	1H_2x3	446005
12	1H_1x2	446117

get the Types from the selected elements

FamilyInstance.FamilyType

_familyInstance	_familyType
	AUTO

place bricks in model on points

FamilyInstance.ByPointAndLevel

familyType	FamilyInstance
point	
level	

Levels

L001	Levels
------	--------

make grid of points

Code Block

```
0..6000..1500;
```

Number

3000.000

+

x y

var[]-[]

Point.ByCoordinates

x y z

Point

xxx

List.Flatten

list

amt

var[]-[]

Watch

Item	Value
0	0
1	1500
2	3000
3	4500
4	6000

Take care about the lacing ;)

roll out #2

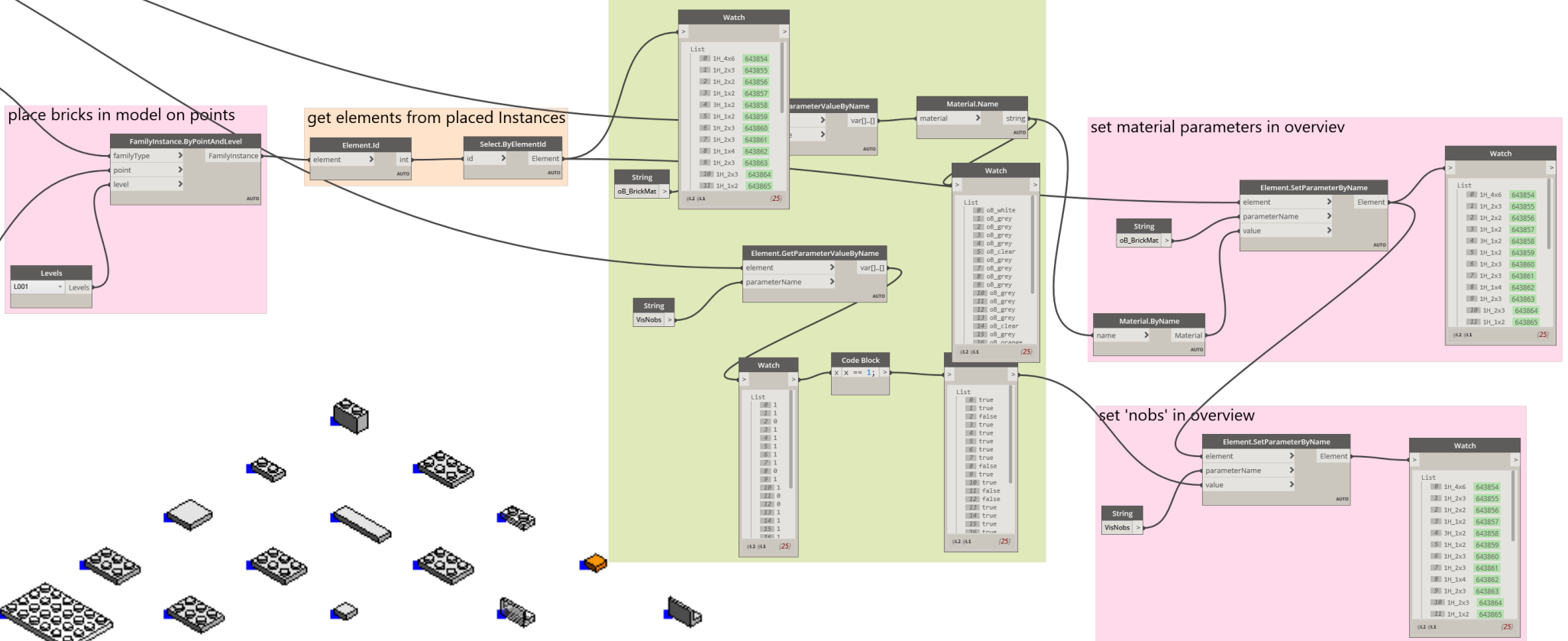
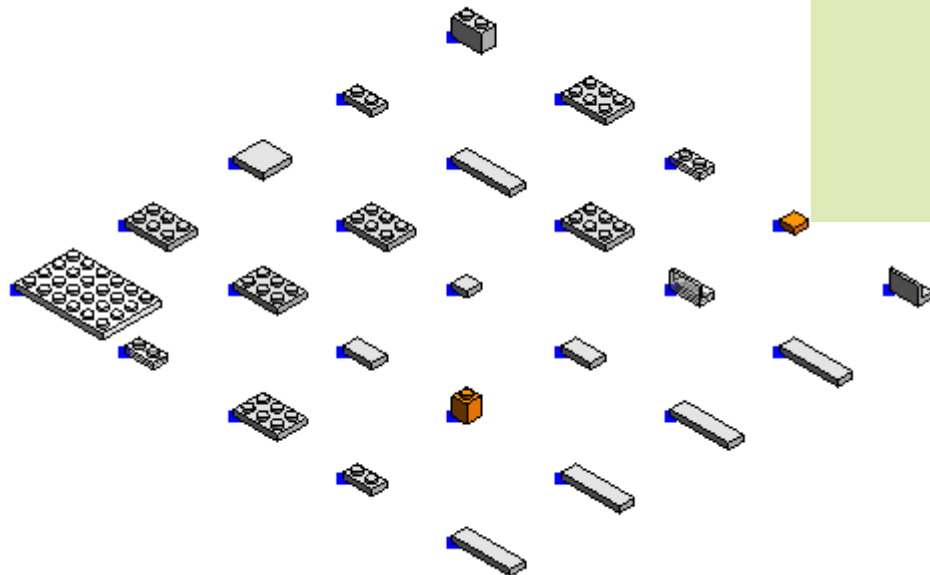
place bricks in model on points

get elements from placed Instances

data check

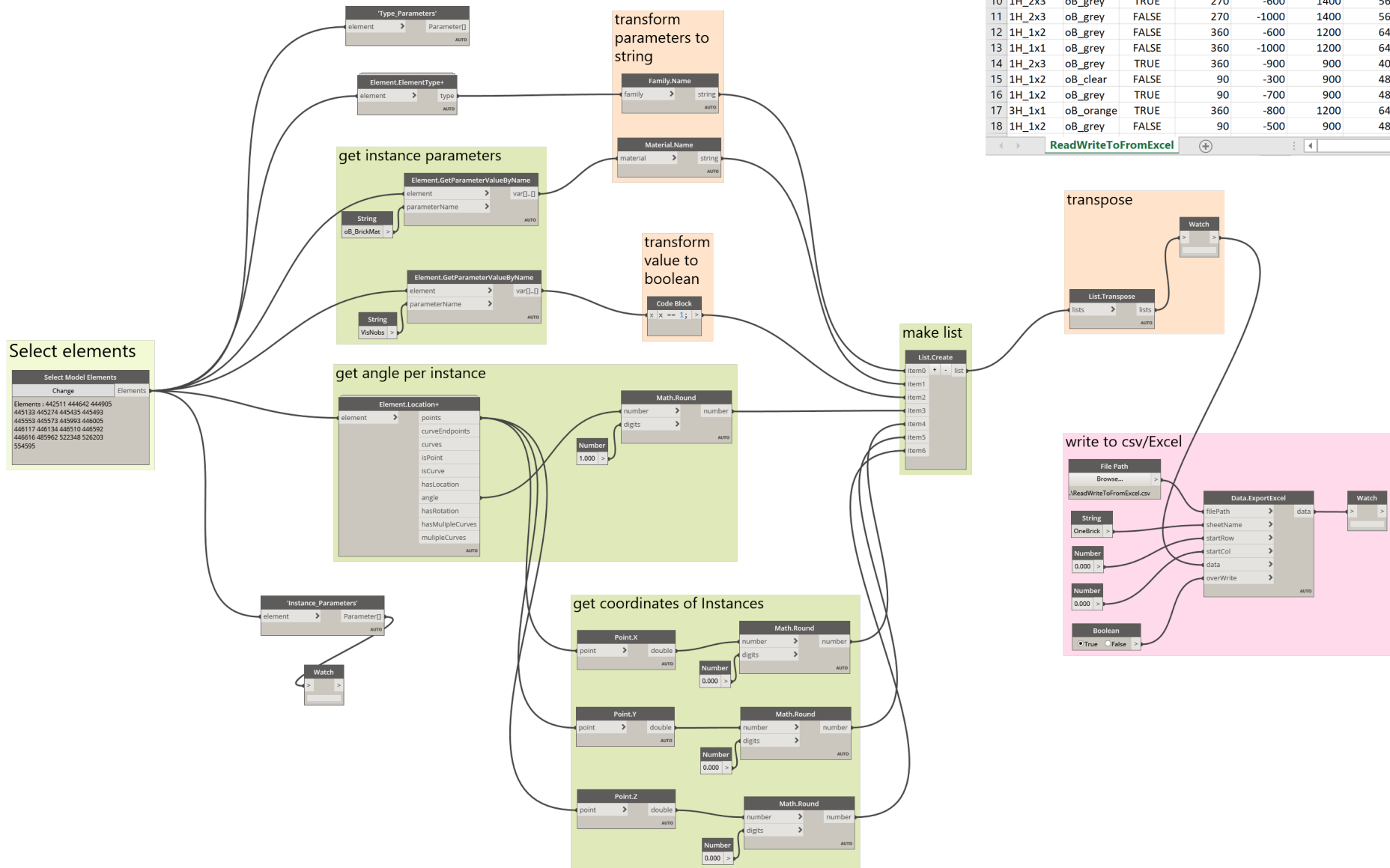
set material parameters in overview

set 'nobs' in overview

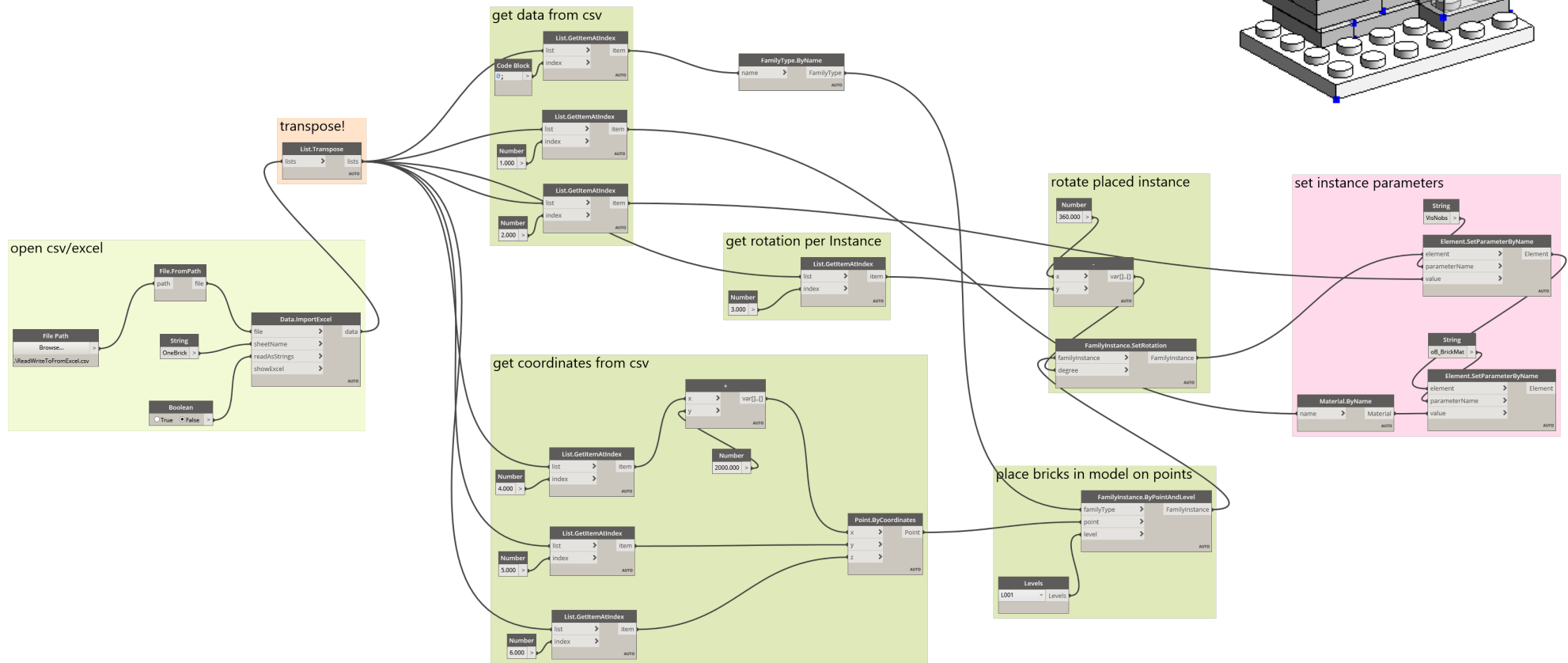
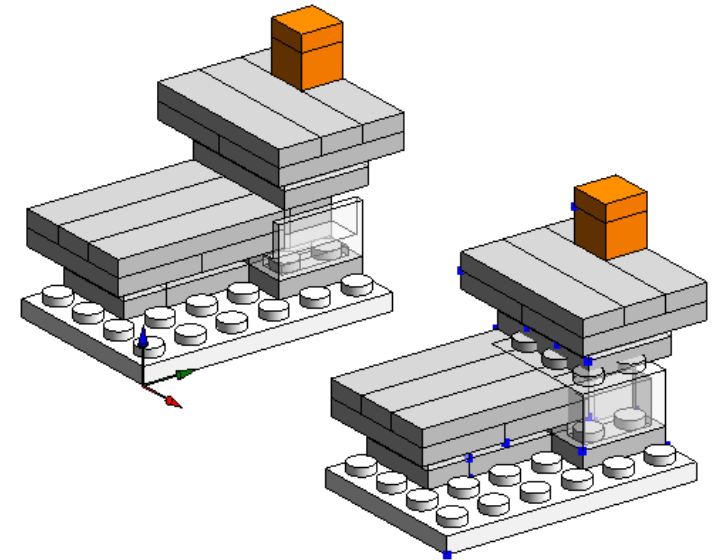


write to Excel

	A	B	C	D	E	F	G	H	I
1	1H_4x6	oB_white	TRUE	90	0	0	0		
2	1H_2x3	oB_grey	TRUE	180	-200	1200	80		
3	1H_2x2	oB_grey	FALSE	180	-400	800	80		
4	1H_1x2	oB_grey	TRUE	180	-400	400	80		
5	3H_1x2	oB_grey	TRUE	180	-400	1200	160		
6	1H_1x2	oB_clear	FALSE	180	-400	400	160		
7	1H_2x3	oB_grey	TRUE	180	-300	500	240		
8	1H_2x3	oB_grey	TRUE	180	-300	900	240		
9	1H_1x4	oB_grey	FALSE	270	-900	900	320		
10	1H_2x3	oB_grey	TRUE	270	-600	1400	560		
11	1H_2x3	oB_grey	FALSE	270	-1000	1400	560		
12	1H_1x2	oB_grey	FALSE	360	-600	1200	640		
13	1H_1x1	oB_grey	FALSE	360	-1000	1200	640		
14	1H_2x3	oB_grey	TRUE	360	-900	900	400		
15	1H_1x2	oB_clear	FALSE	90	-300	900	480		
16	1H_1x2	oB_grey	TRUE	90	-700	900	480		
17	3H_1x1	oB_orange	TRUE	360	-800	1200	640		
18	1H_1x2	oB_grey	FALSE	90	-500	900	480		

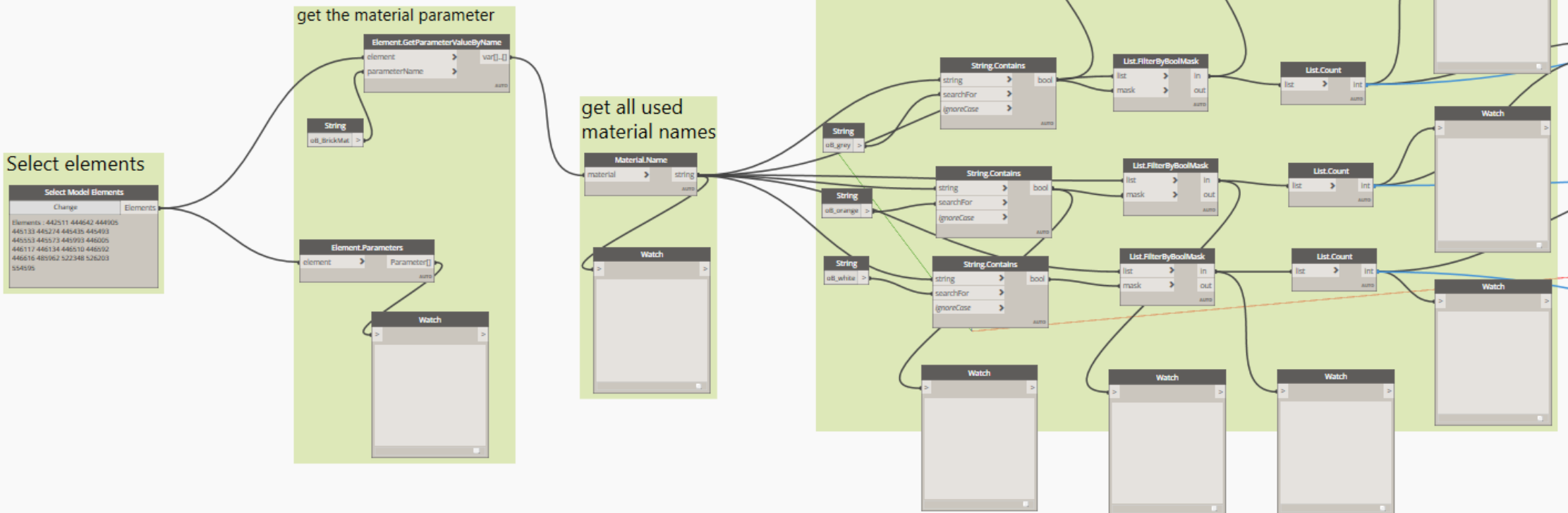
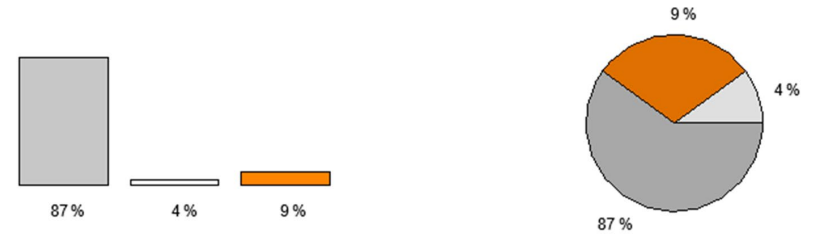


read from Excel



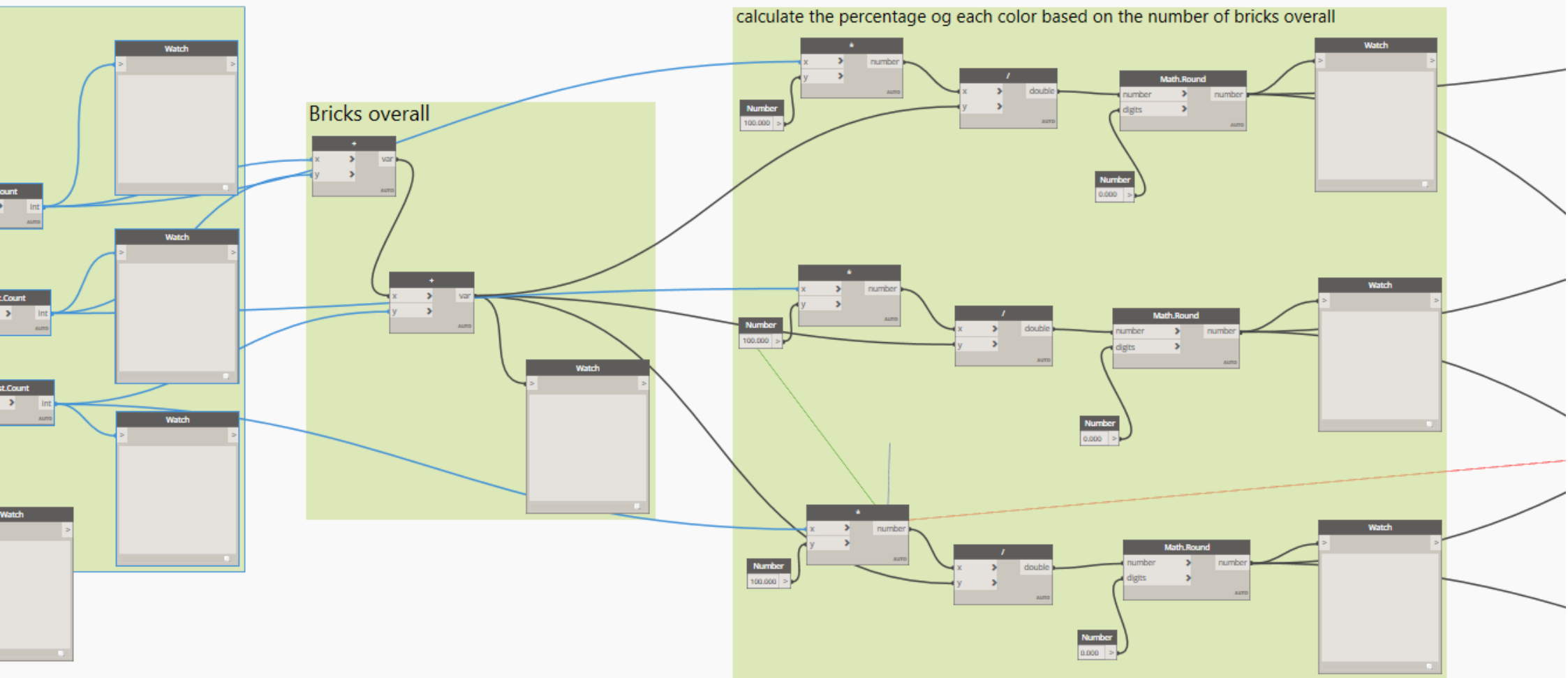
control Diagrams

Part 01



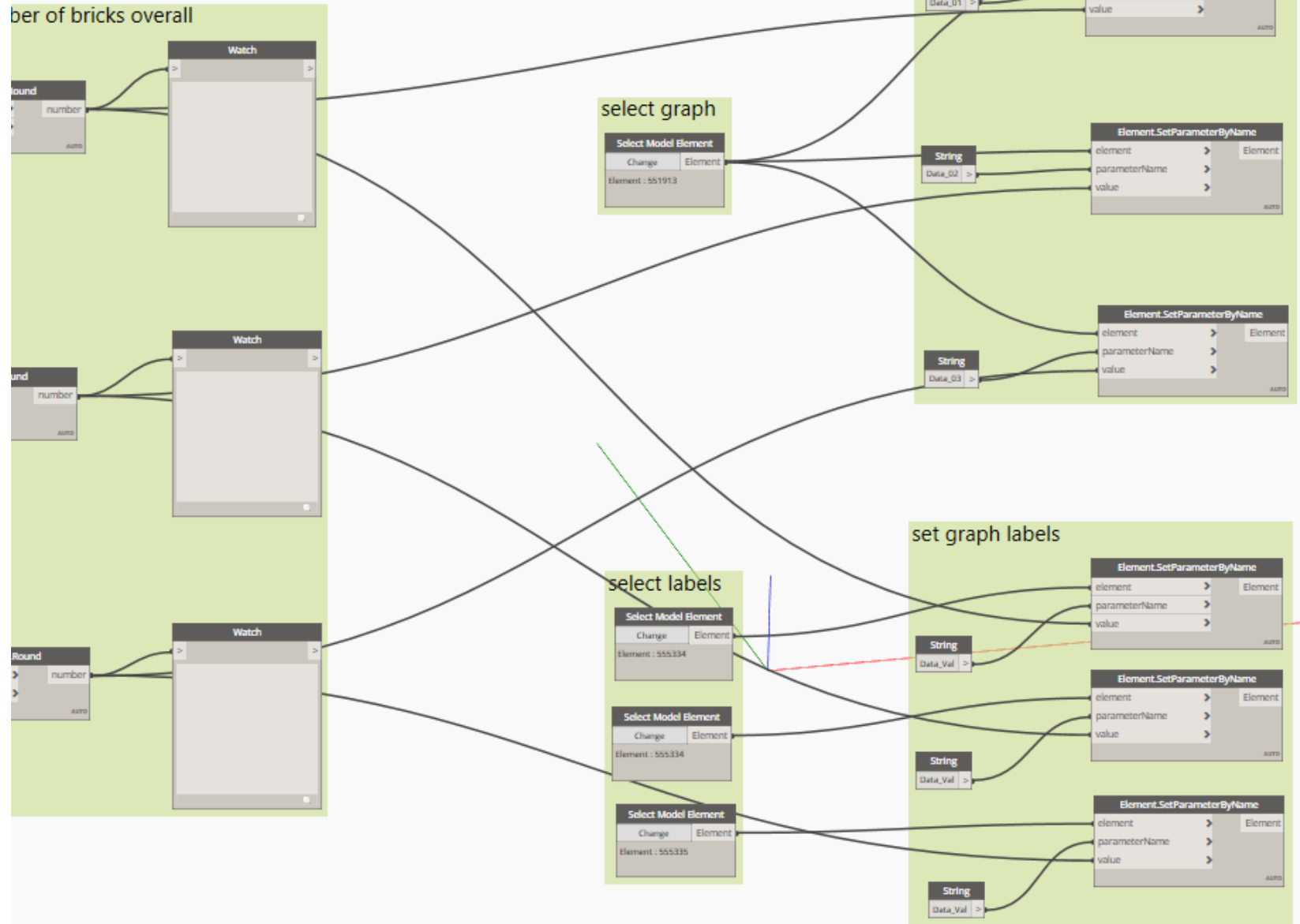
control Diagrams

Part 02



control Diagrams

Part 03



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