



REVIT PLANS TO POWER BI USING DYNAMO PART 2

BY THE AUSSIE BIM GURU

What we did in Part 1

- 1. Take rooms from a Revit model by level
- 2. Obtain their boundary
- 3. Segment any curved edges
- 4. Create polygons
- Write an SVG file

STARTER FILE IS AVAILABLE ON GITHUB:

https://github.com/aussieBIMguru/Dynamo_Scripts 'ABG_201109_DynamoSVGPart1.dyn'

We now have a shape (svg) file...

```
∃<g>
 <polygon id="2936478" points="66250, 47498.0000000001 66250, 47223.0000000001 66250, 46948.0000000000:</pre>
 <polygon id="2936487" points="62873.0000000001, 53545.9669315973 62873.0000000001, 53291.1060029215 (</pre>
 <polygon id="2936854" points="50503.0000001525, 53545.9669315977 50503.0000001525, 53293.1554649852 !</pre>
 <polygon id="2936864" points="56873.0000001829, 53545.9669315975 56873.0000001829, 53288.8301408527 !</pre>
 <polygon id="2936871" points="33977.9999998477, 53545.9669315981 33977.9999998477, 53291.1610123098 (</pre>
 <polygon id="2936878" points="40577.9999998477, 53545.9669315979 40577.9999998477, 53291.1610123096 /</pre>
 <polygon id="3051395" points="22409.9999996953, 46069.9669315985 22157.9999997105, 46069.9669315985 :</pre>
 <polygon id="3051408" points="19609.9999998477, 46069.9669315985 19357.9999998629, 46069.9669315985 :</pre>
 <polygon id="3051591" points="16474.0000000001, 45465.999999999 16206.000000001, 45465.999999999 :</pre>
 <polygon id="3051600" points="63450, 45557.0000000001 63450, 45598.0000000001 63725.000000001, 45598</pre>
 <polygon id="3051620" points="16474.0000000001, 47883.999999999 16206.000000001, 47883.9999999999 :</pre>
 <polygon id="3054393" points="66250, 53322.9669315967 66250, 53047.9669315973 66250, 52772.9669315973</pre>
 <polygon id="3072802" points="13653.0000000001, 47814.999999999 13653.000000001, 47538.3333333333</pre>
 <polygon id="3072880" points="10950, 52103.9669315971 10950, 51845.3849761139 10950, 51586.803020630"</pre>
 <polygon id="3072881" points="10950, 53322.9669315967 10950, 53047.9669315969 10950, 52772.966931597</pre>
 <polygon id="3072897" points="11328.595272236, 49129.999999999 11291, 49129.999999999 11291, 49385</pre>
 <polygon id="3073183" points="11327, 48973.999999999 11652, 48973.999999999 11977, 48973.999999999!</pre>
 <polygon id="3261078" points="36750, 7112.99999990855 36750, 6837.99999990855 36750, 6562.9999999085!</pre>
 <polygon id="3261101" points="36750, 1322.9999999999 36750, 1047.999999999 36750, 772.999999999999</pre>
```

We want to splice in room Id's

<polygon id="3051395" points="22409.9999996953, 46069.9669315985 22157.9999997105, 46069.96
<polygon id="3051408" points="19609.9999998477, 46069.9669315985 19357.99999998629, 46069.96
<polygon id="3051591" points="16474.0000000001, 45465.9999999999 16206.0000000001, 45465.99
<polygon id="3051600" points="63450, 45557.0000000001 63450, 45598.0000000001 63725.0000000
<polygon id="3051620" points="16474.0000000001, 47883.999999999 16206.0000000001, 47883.99</p>
<polygon id="3054393" points="66250, 53322.9669315967 66250, 53047.9669315973 66250, 52772.</p>
<polygon id="3072802" points="13653.0000000001, 47814.9999999999 13653.0000000001, 47538.33</p>
<polygon id="3072880" points="10950, 52103.9669315971 10950, 51845.3849761139 10950, 51586.</p>

Dynamo can read/re-write text files

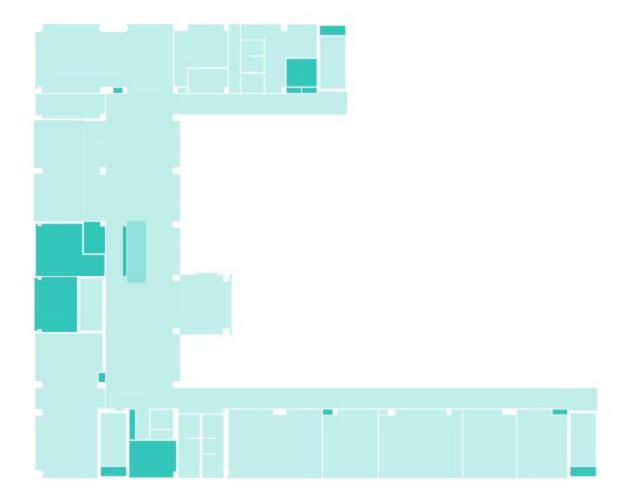
Synoptic panel

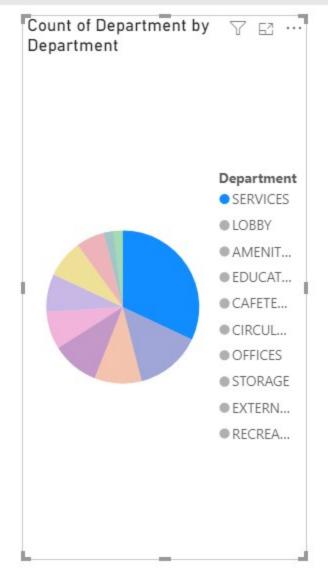
DOWNLOAD FROM

https://okviz.com/synoptic-panel/









Name	ld	Area
COMMS RM	3072897	23.74
COMMS RM	3261311	11.66
EDB	3073183	2.30
EDB	3261339	2.18
EDB	3261352	1.05
FHR	3261368	0.67
FHR	3261378	0.82
FHR	3261389	1.00
FHR	3283711	0.69
FHR	3285355	1.05
FIRE CTL ROOM	3261477	9.03
PLANT	3261406	40.07
PLANT	3261416	31.99
RISER	3054393	3.30
RISER	3072881	3.30
RISER	3261101	3.30
Total		136.14

136.14

Area

Picking up where we left off...

- 1. Splice element Id's into the SVG polygons
- 2. Write room data to Excel
- 3. Use Excel as our Power BI data source
- 4. Download synoptic panel visual
- 5. Connect our SVG visual to our data

Data-Shapes v.2021.2.6

Crumple v.1.0.2

Illustrator v.0.1.0

Custom packages

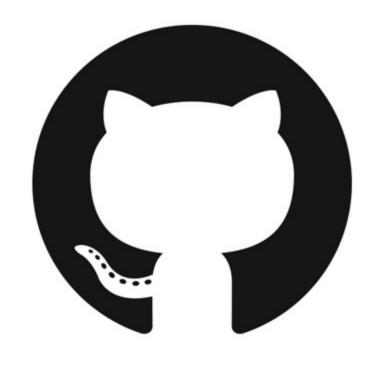


I'm using

Revit 2020.2.3

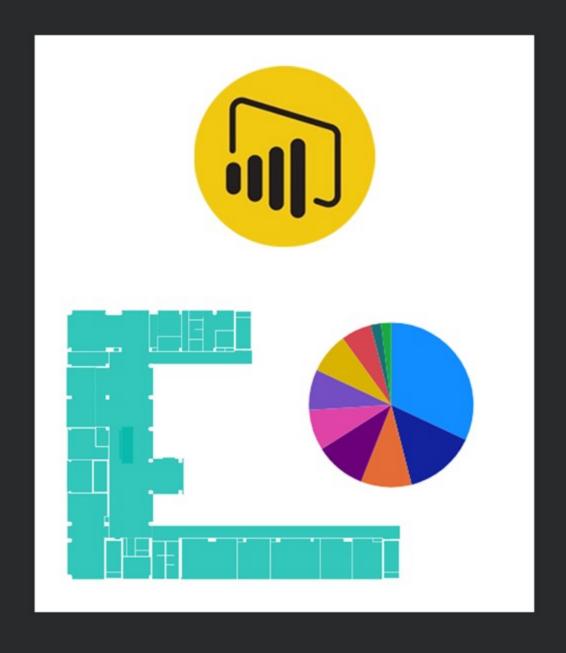
Dynamo 2.3





Files are on github

https://github.com/aussieBIMguru





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