

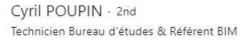


# REVIT COVID-19 FITOUT TESTING USING DYNAMO

BY THE AUSSIE BIM GURU

# Thanks for the help!







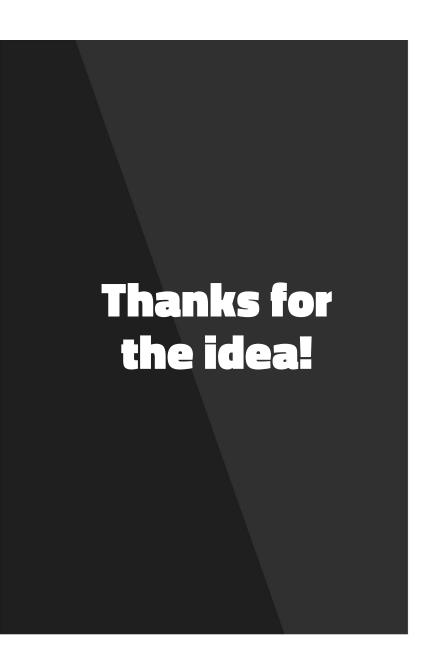


c.poupin 0

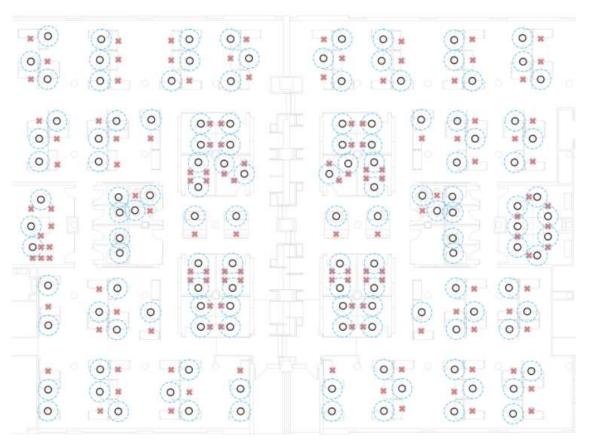
1d

A variant with a better result (permutation of the first element to be tested)

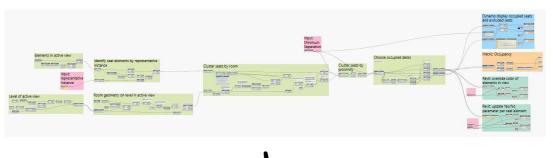
```
import clr
clr.AddReference('ProtoGeometry')
from Autodesk.DesignScript.Geometry import *
clr.AddReference('RevitAPI')
import Autodesk
from Autodesk.Revit.DB import *
def nextSpaceChair(group = [], elemA = None, startIdx = 0):
   global margin
   group = list(group)
   if elemA is None:
       elemA = group.pop(startIdx)
       return [elemA] + nextSpaceChair(group, elemA )
       locPt = elemA.Location.Point
       lstPair = [[x, x.Location.Point.DistanceTo(locPt)] for x in group if x.Lc
       lstPair.sort(key = lambda x : x[1])
```



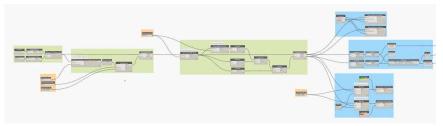
### https://dynamobim.org/occupancy/



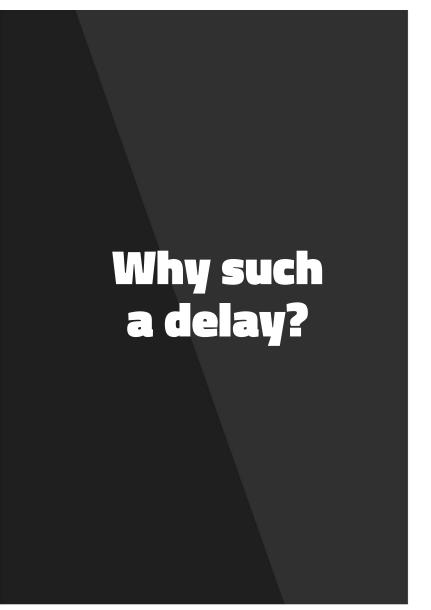
# Why rebuild it?







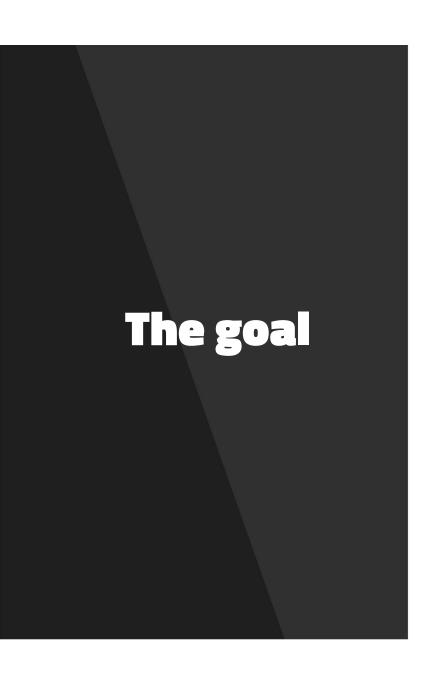
Simplify the script logic Streamline the clustering process

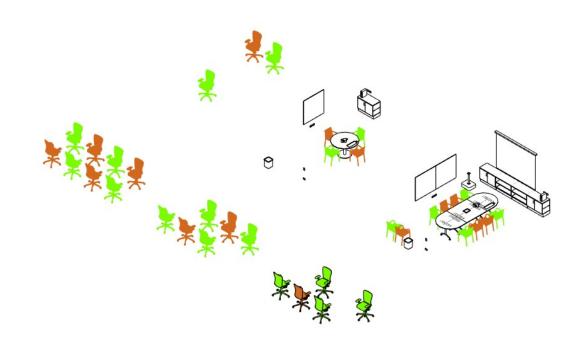


I know many of my followers and their families have been personally affected by this epidemic.

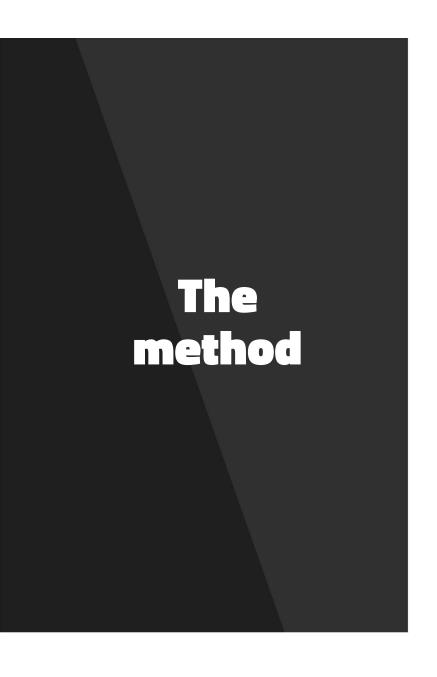
I've delayed this until countries have (hopefully) better controlled this, so as not to hit so close to home.

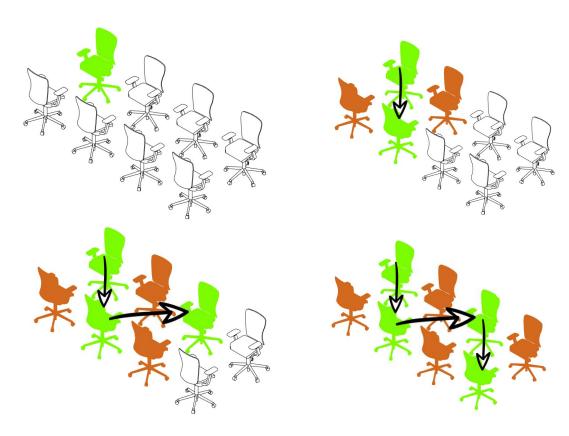
I wish everyone good health, and those without it a speedy recovery.





Maximum seats filled Efficiency reported back Results visually shown



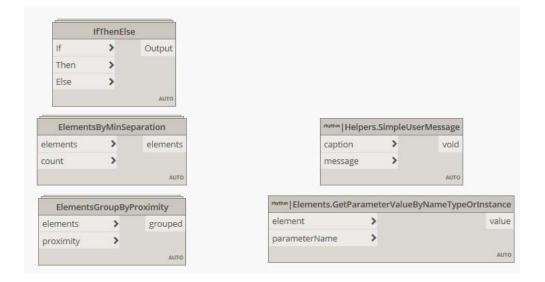


1.5m minimum separation Cluster seats by adjacency Exhaust options, take best outcome

# **Custom Nodes**

Custom Node: Rhythm v.2020.2.13

Custom Node: Crumple v.1.0.4

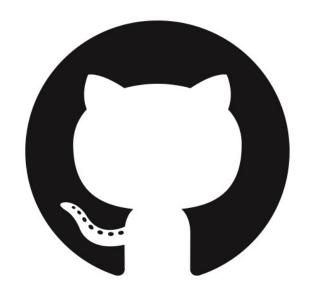






Revit 2020.2.2 Dynamo 2.3.0

# Without further ado



# Files on github

https://github.com/aussieBIMguru





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