

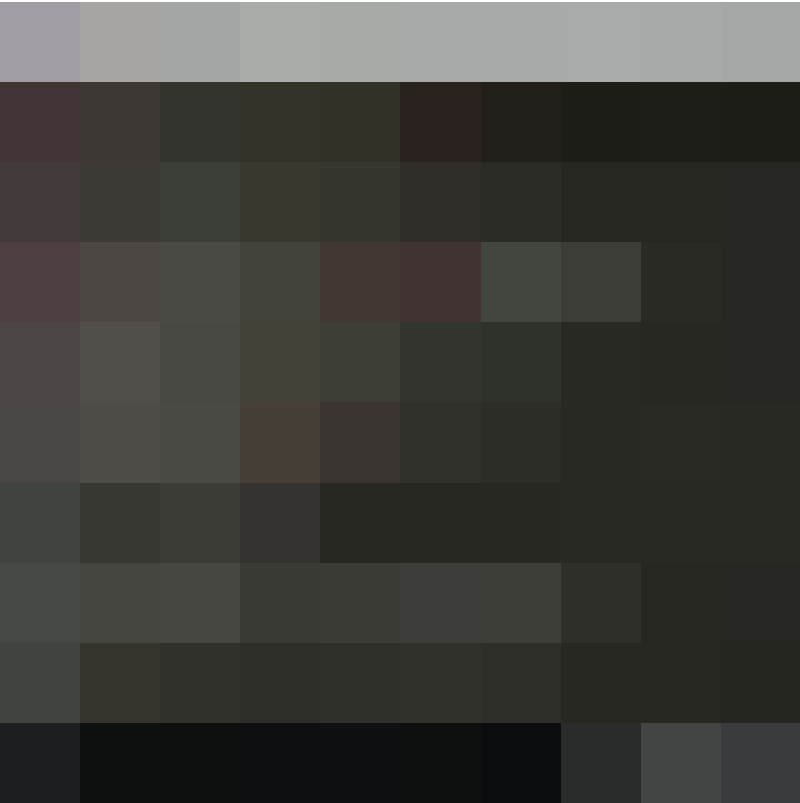
Flip Work Plane Equivalent

Daniel_Woodcock1

Nov '16

Hi @Dynamonkey ,

If you want to get jiggy with python I think the FamilyInstance method flipFacing() might be what you want.



Although, i would use @Mostafa_El_Ayoubi's solution. Easier.

Cheers,
Dan

Dynamonkey

Nov '16

Hey @Daniel_Woodcock1 & @Mostafa_El_Ayoubi

I will take a look again but yes as mentioned in my post, I've tried those flip face nodes but unfortunately had no success. I have a feeling python is the way to go. The API example I was referring to calls for:

```
famInst.IsWorkPlaneFlipped = true
```

is there any equivalent for this in Python?

Daniel_Woodcock1

Nov '16

Hi @Dynamonkey ,

Instead of elem.flipFacing() Just use elem.IsWorkPlaneFlipped(b) where “b” is a bool value.

Family Instance Members (Flip)

Family Instance Properties (Flip)

Nov '16

Nov '16

It seems to work fine here, see below (script attached also)...



Cheers,
Dan

Dynamonkey

Nov '16

Now that's what I call teamwork. Glad we got this one sorted out.

Viraj_Voditel1

Jan '17

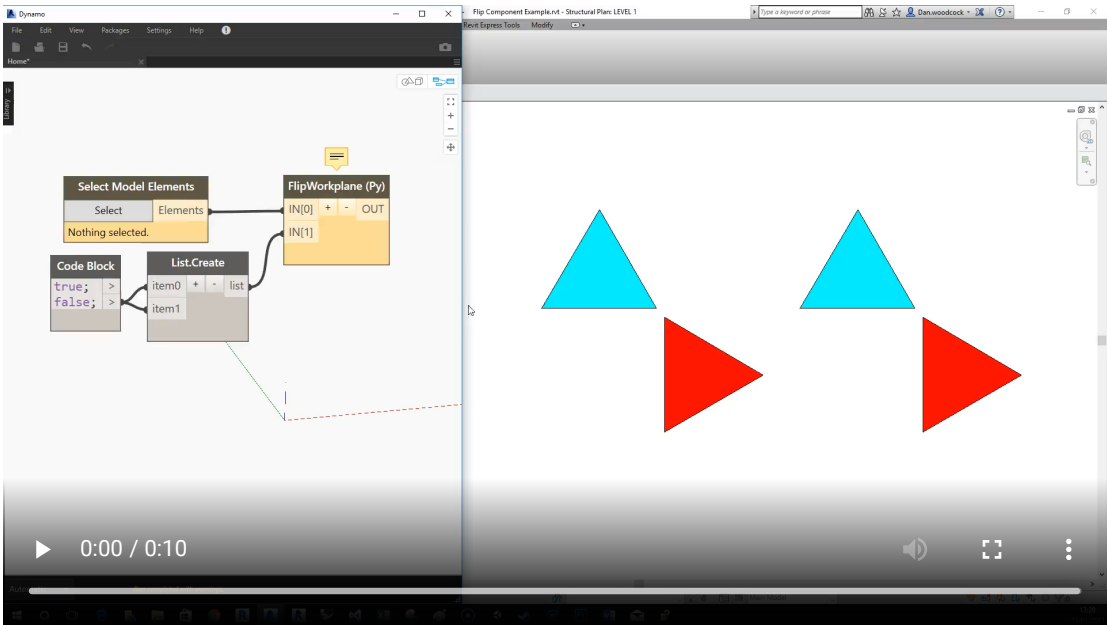
Is there any way we can apply the same principle to do it for multiple elements? I tried replacing the node with the one for multiple elements but it wouldn't work.

Daniel_Woodcock1

Jan '17

Hi @Viraj_Voditel1,

Yes, this is pretty simple. The following demonstrates how to do this...



```
import clr

clr.AddReference("RevitServices")
import RevitServices
from RevitServices.Persistence import DocumentManager
from RevitServices.Transactions import TransactionManager
doc = DocumentManager.Instance.CurrentDBDocument

clr.AddReference("RevitNodes")
import Revit
clr.ImportExtensions(Revit.Elements)
clr.ImportExtensions(Revit.GeometryConversion)

clr.AddReference("RevitAPI")
from Autodesk.Revit.DB import *

def tolist(obj1):
    if hasattr(obj1, "__iter__"): return obj1
    else: return [obj1]

elems = tolist(UnwrapElement(IN[0]))
bools = tolist(IN[1])
```

```
TransactionManager.Instance.EnsureInTransaction(doc)
for elem,b in zip(elems, bools):
    elem.IsWorkPlaneFlipped = b
TransactionManager.Instance.TransactionTaskDone()
```

Hope this helps.

Cheers,
Dan

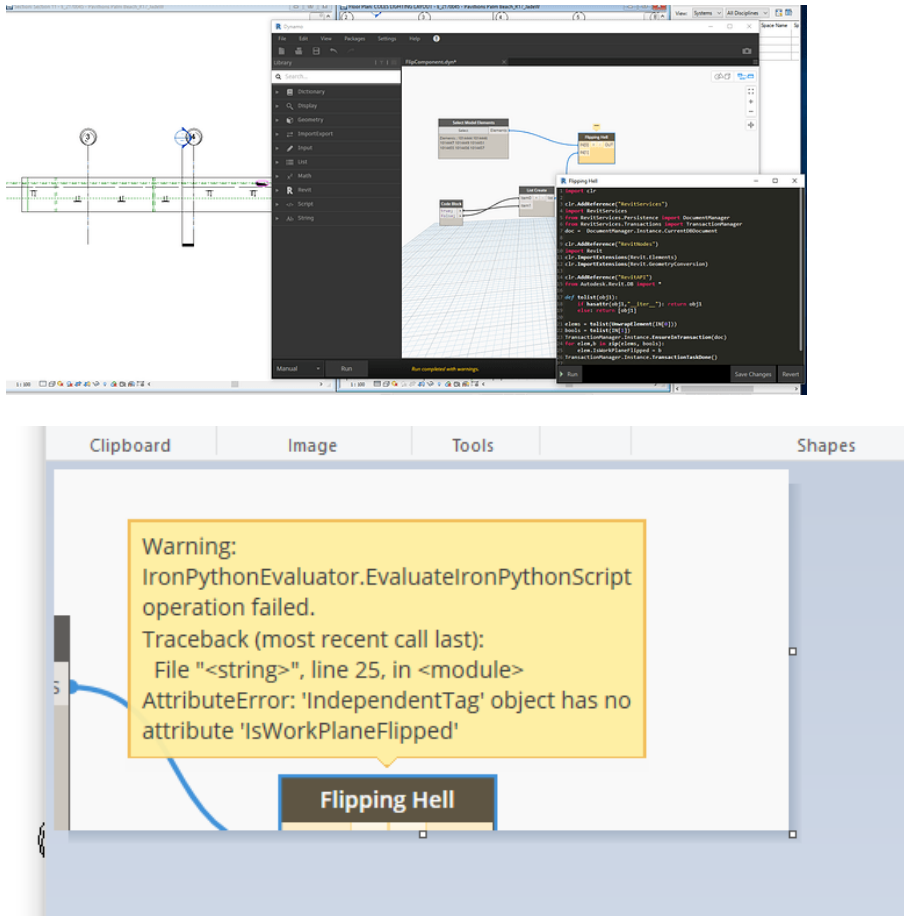
🔗 Stick the element on the wall

JadeJun '18

Hi @Daniel_Woodcock1

I've tried to run your script with multiple but it will only slip one still? I also have an error I don't know how to fix in the python script. Are you able to provide some help or spot the one thing I am missing?

Thanks if you can!



Daniel_Woodcock1Jun '18

Hi @Jade ,

Yes, two problems I can see.

1. The Boolean list needs to have the same number of bools as you do elements. It's a 1:1 operation as the elements/bools are zipped.
2. You are trying to flip a tag element and this doesn't support flipping (the yellow balloon warning message) since they are not hosted to planes as they are 2d elements. I don't think tags actually support flipping at all, only switching between orientation (horizontal/vertical) or changing their Family Type.

n.dull

Jan '19

Hi Daniel_Woodcock1,
Where is that image you posted of the properties from?
Thanks,

ammar11khalil

May '19

Thank you for your help @Daniel_Woodcock1 . Much Appreciated.