API 3: Sun Settings

Python in Dynamo

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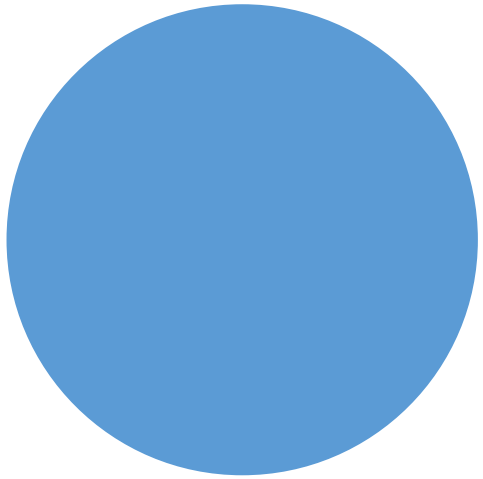
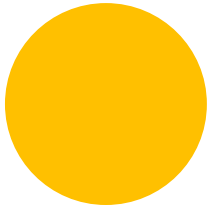

Dynamo and Python

Sun Settings (API 3)

This video

- Navigate Revit API Docs
- Wrap/unwrap elements
- Enumerations
- Update view sun settings

Python Script

```python
# Made by Gavin Crump
# Free for use
# BIM Guru, www.bimguru.com.au

#Reference for script name: https://github.com/Amoursol/dynamoPython/blob/master/dynamoAPI/dynamoAPICurrentGraphName.py
#Thanks to John Pierson for sharing the code for Dynamo file data

#Add CLR and Dynamo services for its API
import clr
clr.AddReference('DynamoRevitDS')
import Dynamo
from System import Environment

#Add document manager from Revit services
clr.AddReference('RevitServices')
import RevitServices
from RevitServices.Persistence import DocumentManager

# access to the current Dynamo instance and workspace
DynamoCurrent = Dynamo.Applications.DynamoRevit()
ActiveScript  = DynamoCurrent.RevitDynamoModel.CurrentWorkspace
DynamoVersion = DynamoCurrent.RevitDynamoModel.Version

# ensure version 2.X, get name
if DynamoVersion.StartsWith("2."):
    ScriptName = ActiveScript.Name + ".dyn"
else:
    ScriptName = "Version not supported"

# get system user name
UserName = Environment.UserName

# get active document name and path
```

Let's get into the example!

Making sheets

We want to update sun settings

So we need to inspect the *SunAndShadowType class*

On API Docs

https://www.revitapidocs.com/

Future Videos

Basic samples

Revit API

Advanced samples

And more!

Crumple is on github

https://github.com/aussieBIMguru

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