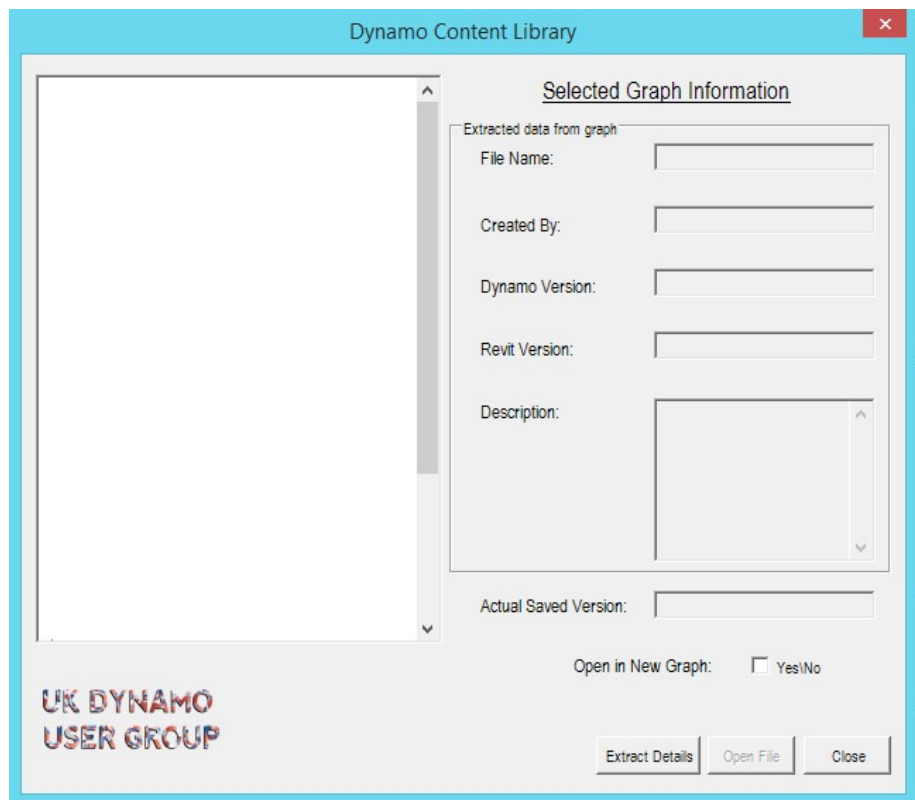# *Readme guide for DynaStandard Extension for use in Dynamo.*

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Rev: P02

Table of Contents

Rev	Amendment	Date
P01	First Release	19/02/19
P02	General update. Added temporary Python Template options information to document.	03/05/19

1. Introduction

This Dynamo extension is my first c# project and first attempt at creating a dynamo extension, therefore please be productive in any feedback or issue reporting.

I would like to start of by giving my thanks to the members of the dynamo forum/bloggers for the wealth of information/knowledge that has been posted around the place that helped me get to grips with dynamo extension development.

This Dynamo extension was developed to create a Dynamo content library to help distribute this content to all, have easy access to graph(s) templates and any standard documentation related to dynamo.

> Important Note:
> - The dynamo extension should be tested prior to any deployment.
> - Config file will need to be amended to suit prior to any deployment.

2. Reporting issues or providing feedback

Any errors or feedback about the extension should be reported to the github page below by creating an issue report. Though please follow the provided templates and provide plenty of information related to what you did and what happened plus dynamo versions.

Github page: https://github.com/brencass/DynaStandard_public

3. Setup

To setup the Dynamo extension for use will depend on the version of dynamo you are running. You can either utilise the package manager for dynamo 2.0 and above, though if you are using a dynamo version prior to 2.0 then you will have to utilise the "View extensions" folder method.

View Extensions install:

You will need to extract the "ViewExtensions" version of DynaStandard it into the following folder on the computer "C:\Program Files\Dynamo\Dynamo Core\<Version>\viewExtensions". Then once this is done you just need to follow the config setup then you are finished for your first run.

Package Manager:

You will need to either install the extension via package manager or by extracting the files from the package folder on the github page into your package folder which is usually "C:\Users\<username>\AppData\Roaming\Dynamo\Dynamo Core\<version>\packages" though do note that if you want to use this add-on in dynamo core and in revit then you will
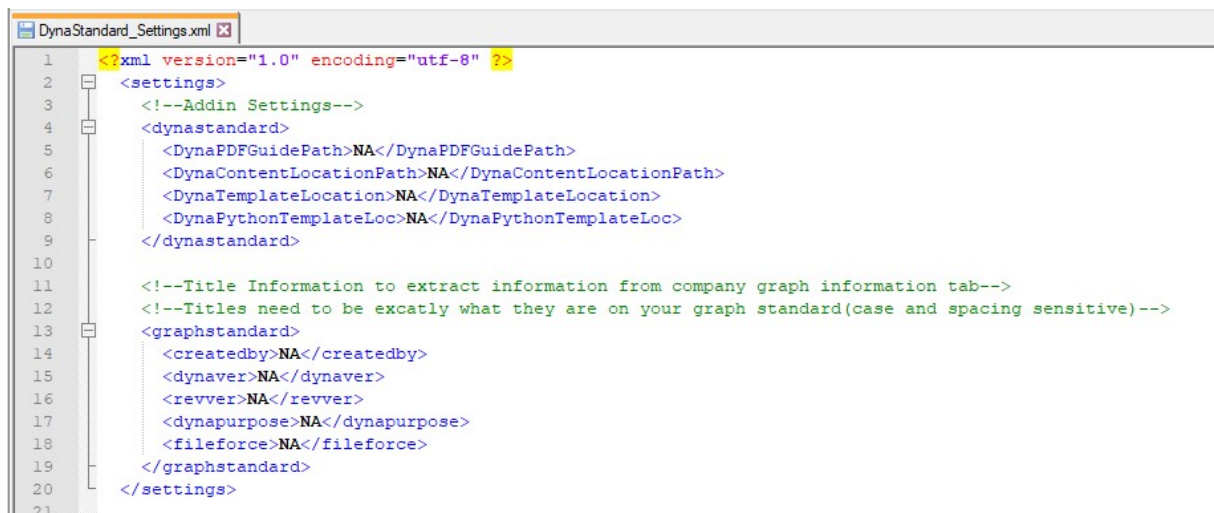
need to follow the same path but choose the "Dynamo Revit" folder instead of "Dynamo Core" folder.

Once you have installed the extension in either of the above it is time to setup the config file that comes with the extension, this will contain all of the relevant file paths for your content that is to be loaded.

3.1.Config Setup

To start off with you will need to find the "DynaStandard_Settings.xml" config file that comes with the extension and open it in notepad or notepad++.

When you open the file you will see the following

There are two main sections within this text which are "dynastandard" and "graphstandard". The dynastandard section caters for where the extension should look for content, templates and standard document. The graphstandard section is for what word(s) the extension will look for within the text notes that are within your graph then extract information into relevant sections on the content library window.

Dyna standard section there is 4 sub sections which are as follows:

- DynaPDFGuidePath – Path to your pdf file that has your graph standards.

- DynaContentLocationPath – Directory path to the central location of graphs are kept.

- DynaTemplateLocations – Directory path to the central location of graph template files.

- DynaPythonTemplateLoc – Directory path to central location of Python template files(in python format[.py]).

Graph Standard sections has 5 sections where you need to fill in the relevant titles from the "Dynamo Script Information" section of your graph/Graph templates with a completed example shown below and how the script information looks within dynamo.

Settings file Example:

```
<!--Title Information to extract information from company graph information tab-->
<!--Titles need to be excatly what the are on your graph standard(case and spacing sensitive)-->
<graphstandard>
  <createdby>Created By</createdby>
  <dynaver>Dynamo Version</dynaver>
  <revver>Revit Version</revver>
  <dynapurpose>Dynamo Script Purpose</dynapurpose>
  <fileforce>Force New File</fileforce>
</graphstandard>
</settings>
```
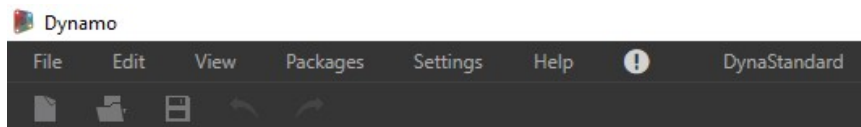
Graph Example:

Once all these settings have been changed, just save the file.
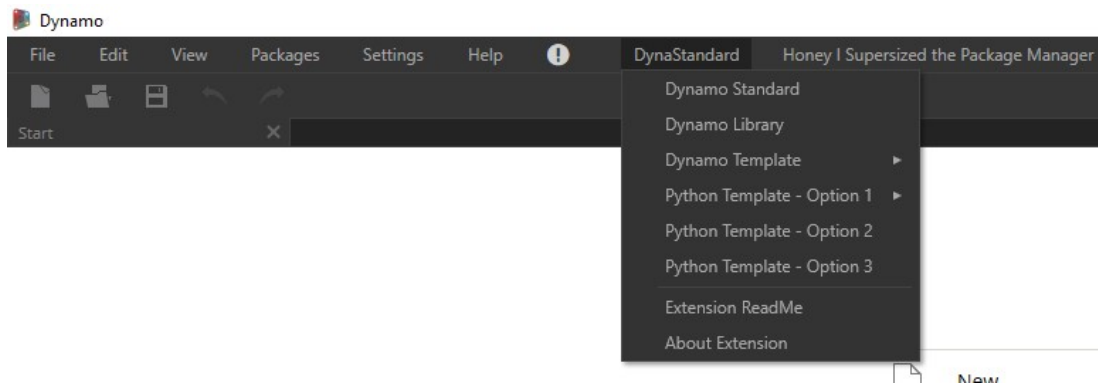
4. Running the Extension

As long as you have followed the above, all you will have to do is load dynamo as you would normally for any changes to take effect and for the add-on to load.

Once you open dynamo you will be met with the following new menu.

Then when you click on DynaStandard it will have a drop down menu where it contains clickable menu items for you to either see your dynamo standard document, Dynamo content library, python template options or even your Dynamo Templates. With the last two items being a quick link to this readme and a about item.
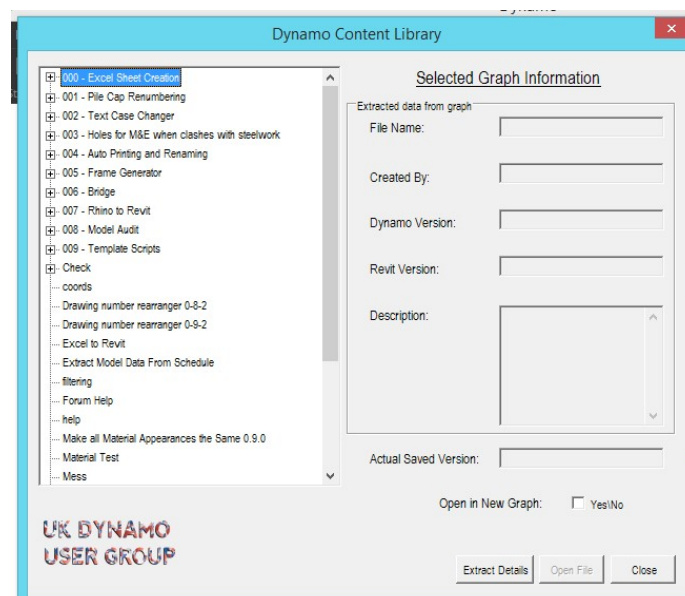

4.1.Dynamo Standard
When you click on the Dynamo Standard it will automatically load the Dynamo standard document.

4.2.Dynamo Library
Dynamo Library will open a new window with your dynamo content loaded within and look similar to the follow(though content will be different).

4.3. Dynamo Template

Dynamo Template menu item will have your Dynamo templates loaded to automatically create a brand new dynamo graph with the contents from your template within.

4.4. Python Template

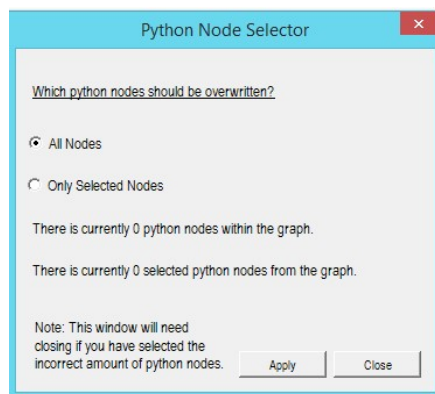The 3No python template menu items will work as the below indicated options

Important Note:
- The Python Template options are to highlight possible implementations of changing the python nodes script to one of your templates.
- Please put all feedback relating to the Python Template options be submitted onto this github post https://github.com/brencass/DynaStandard_public/issues/2

For the Python Template options to work you will need to have python nodes already within your graph and if you are only after one or a few of the python nodes being changed then this is the time to select these. Once this choice has been done you can them select the python template option you want to use.
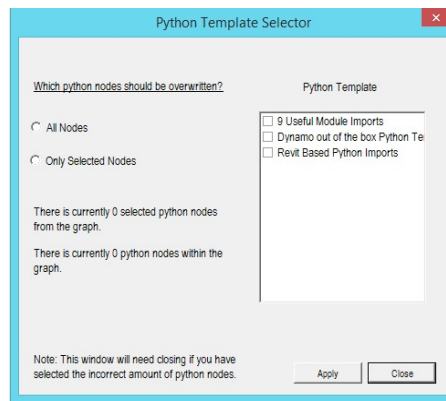
4.4.1. Python Template – Option 1

Option 1 works by creating a submenu for each python template file, then it will open the following window. Once it opens you can select if you want all of the python nodes or just the selected python nodes within the currently opened dynamo graph to be changed.

4.4.2. Python Template – Option 2

Option 2 works by selecting the python template menu which then opens a window as the below but this is slightly different to the window used in option 1 because it has a selection area for all of the python files it currently found. This then allows you to select the required implementation (all or only selected nodes) with a selection for the required template then once applied it will do the change.

4.4.3. Python Template – Option 3

This option is a hybrid of option 1 and 2, though it does not include a sub option. This is because when the extension only finds 1 python file within the template directory it will initialise the window that doesn't include a template selection (option 1). If you have a folder that has more than 1 python template then it will switch to the window that has a way to select any of the template files as per option 2.