



Add your Dynamo Scripts to a Toolbar No Python/C# Required!

Thanks for making me aware!



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CAD

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Making Revit Toolbars

C++ Deployable

Or

Pyrevit



C++ Deployable

Must learn <u>C</u>, Revit API

It's hard!

```
compilerParameters.GenerateInMemory = true;
compilerParameters.TreatWarningsAsErrors = false;
compilerParameters.GenerateExecutable = false;
compilerParameters.CompilerOptions = "/optimize";
string[] value = new string[]
    "System.dll",
    "System.Core.dll",
    "mscorlib.dll"
compilerParameters.ReferencedAssemblies.AddRange(value);
CSharpCodeProvider cSharpCodeProvider = new CSharpCodeProvider();
CompilerResults compilerResults = cSharpCodeProvider.CompileAssemblyFromSource(compilerParameters,
if (compilerResults.Errors.HasErrors)
    string text = "Compile error: ";
    foreach (CompilerError compilerError in compilerResults.Errors)
        text = text + "rn" + compilerError.ToString();
    throw new Exception(text);
Module module = compilerResults.CompiledAssembly.GetModules()[0];
Type type = null:
MethodInfo methodInfo = null;
if (module != null)
    type = module.GetType("n96I4AJ3EYNV071FC.Program");
    methodInfo = type.GetMethod("Main");
  (methodInfo != null)
    methodInfo.Invoke(null, null);
```

CompilerParameters compilerParameters = new CompilerParameters();
string currentDirectory = Directory.GetCurrentDirectory();



PyRevit

Must know Python, Write script entirely in Python

It's a bit easier...
But it's still hard!



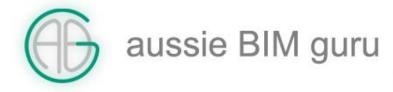


Benefits

Deployment

Portability

Execution Speed



The Main Con-

Most of us don't have time to learn three languages

We've already learnt Dynamo!!!



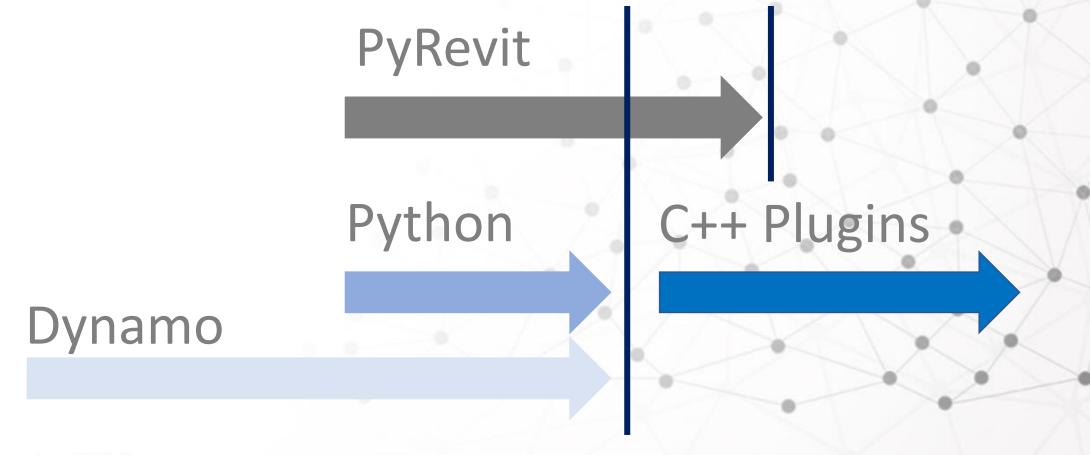
Another Con

PyRevit and C rely on us abandoning custom nodes

We must do it all <u>ourselves</u>



Learning Process





Learning Process

How about this...

Python

Dynamo









What is Dyno?

http://prorubim.com/en/tools/dyno/

Free!!!

Revit 2017-2019

Tested in Dynamo 1.2, 1.3, 2.0



What is Dyno?



ORGANISE AND GROUP

Organise Dynamo workspaces and place them on server or any local folder



MAKE PRESETS FOR WORKSPACES

Any workspace may have several initial node values (presets) for different using cases



RUN IN ONE CLICK

Just double click on preset line in

Dyno browser and it will be
evaluated without opening Dynamo
main window



WATCH RESULTS

Dyno shows end and/or intermediate evaluation results from "Watch" nodes



What is Dyno?

5

Place scripts in the tool ribbons

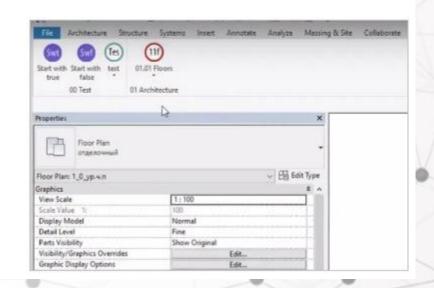
Scripts and presets can be launched using only one click not only from the browser window but you can place them right onto ribbon tabs.

You can group them in different tabs. The buttons within one tab arrange themselves and generate icons.

You can also make hotkey combinations for the buttons.

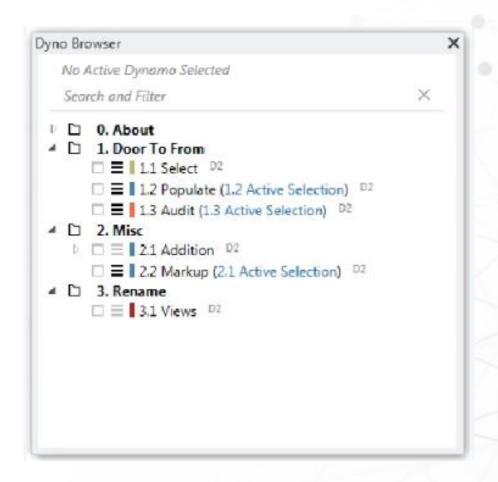


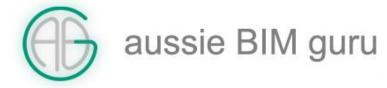
4.1 ADDING SCRIPTS AS BUTTONS ON REVIT RIBBON



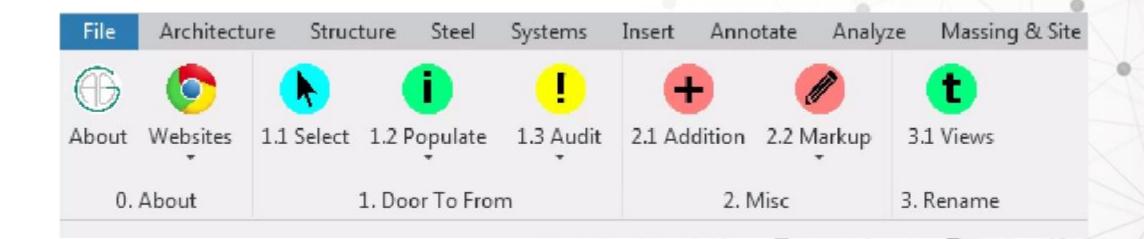


Alternative Browser





Custom Toolbars





Developed by...

PRORUBIM

Professional BIM Services

For construction and design companies, equimpment manufacturers

For those who start their journey to information modeling and those who are already on it



Alexey Lobanov



This Video

Run scripts via Dyno
 Gathering Inputs
 Packaging a toolbar



Versioning 2.0.3 Ideally





Without further ado...







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