Basic Examples

Python in Dynamo

Related videos

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PYTHON FUNDAMENTALS

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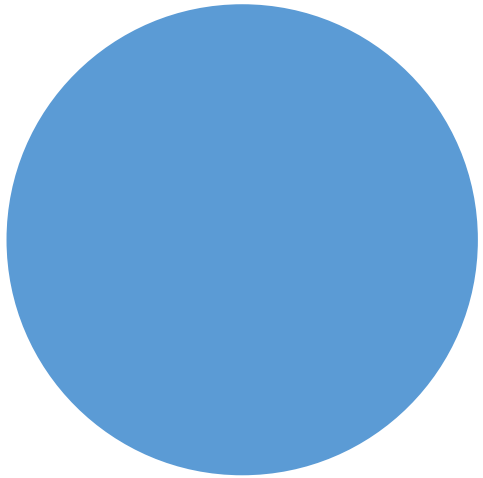
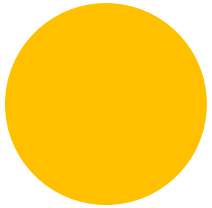



Dynamo and Python
Basic Examples

This video

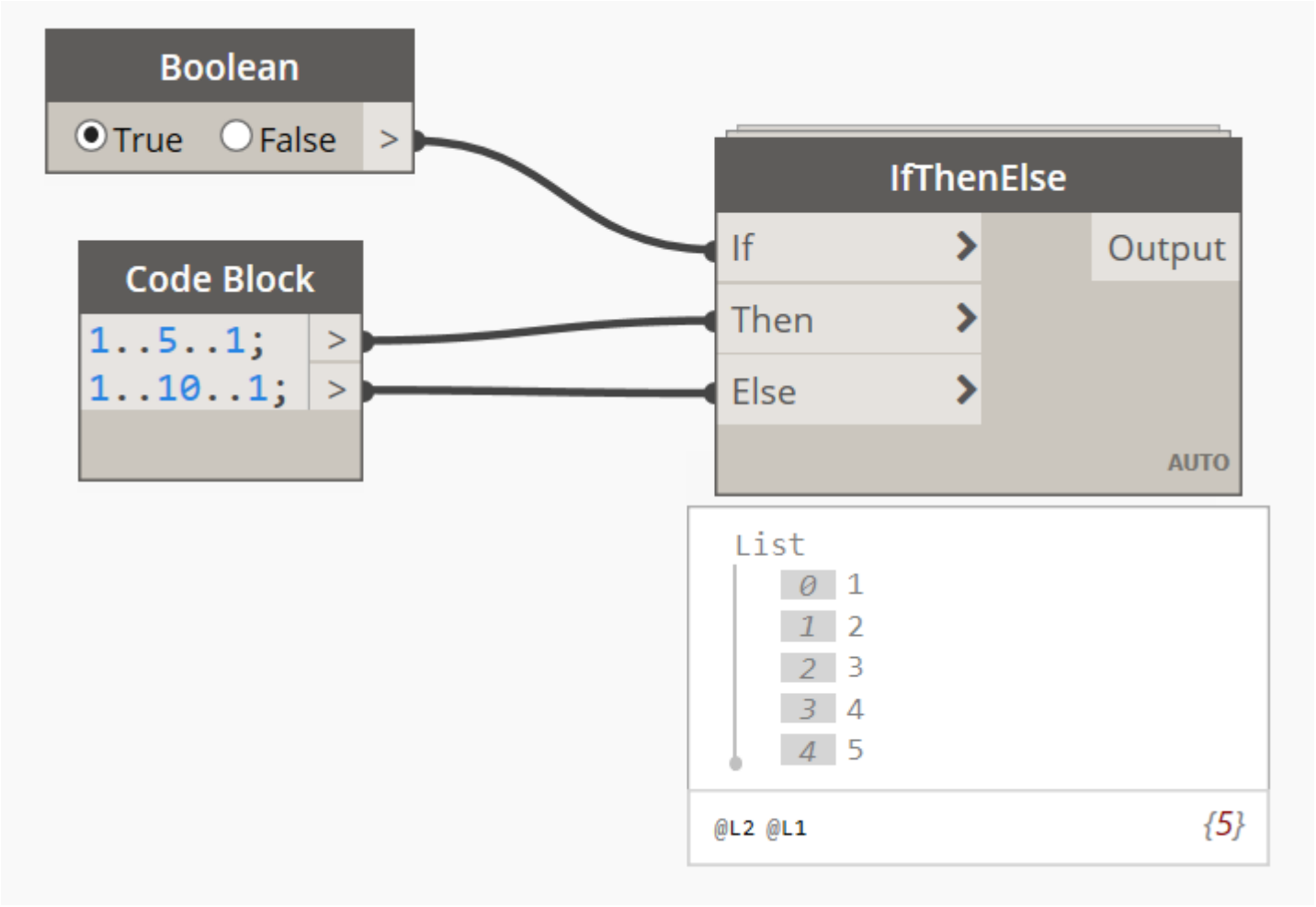
- Passing elements to Python
- Processing elements
- Sending elements back to Dynamo
- No unwrapping/API

Python Script

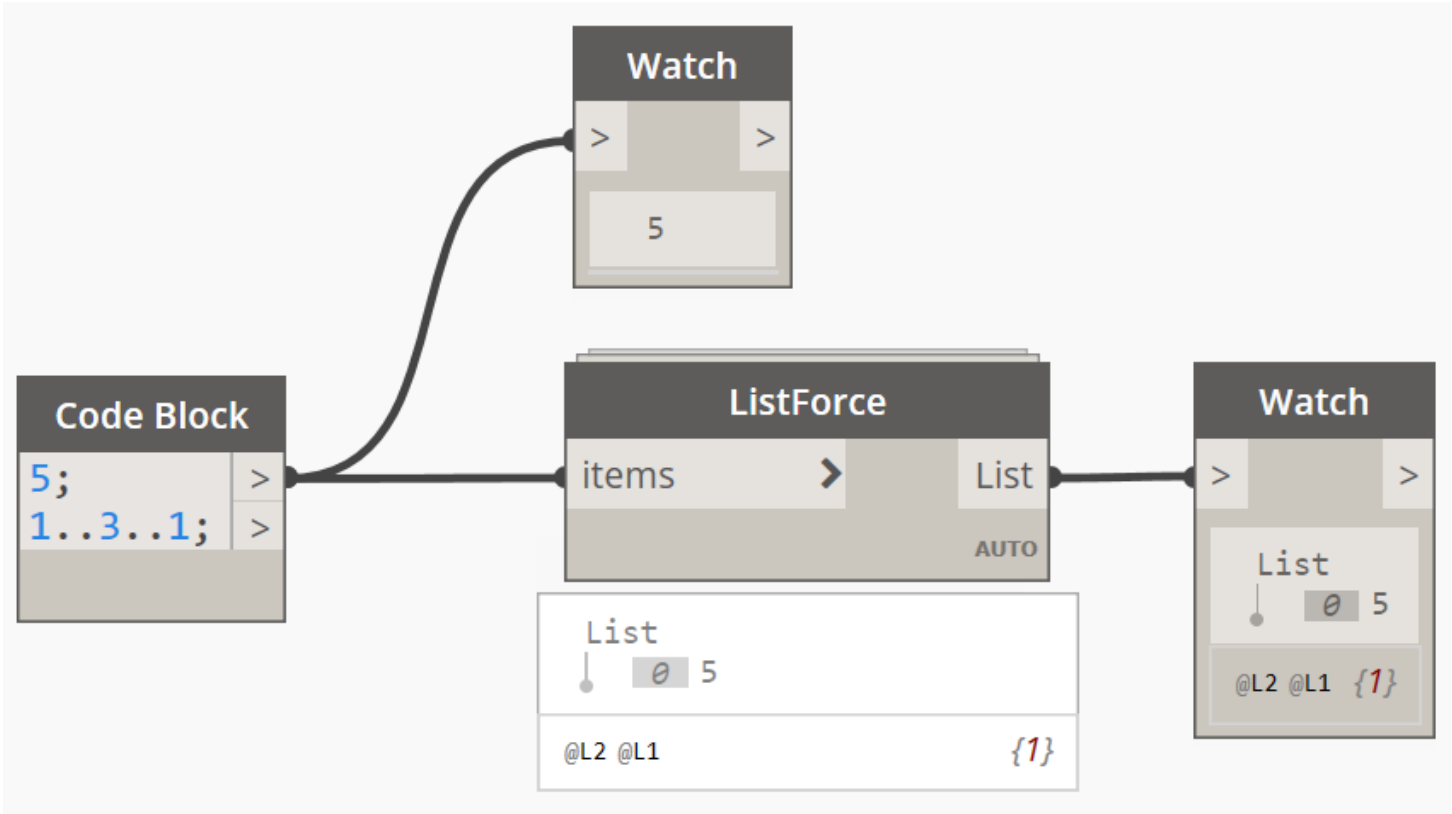
```python
# Made by Gavin Crump
# Free for use
# BIM Guru, www.bimguru.com.au

#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 some examples!

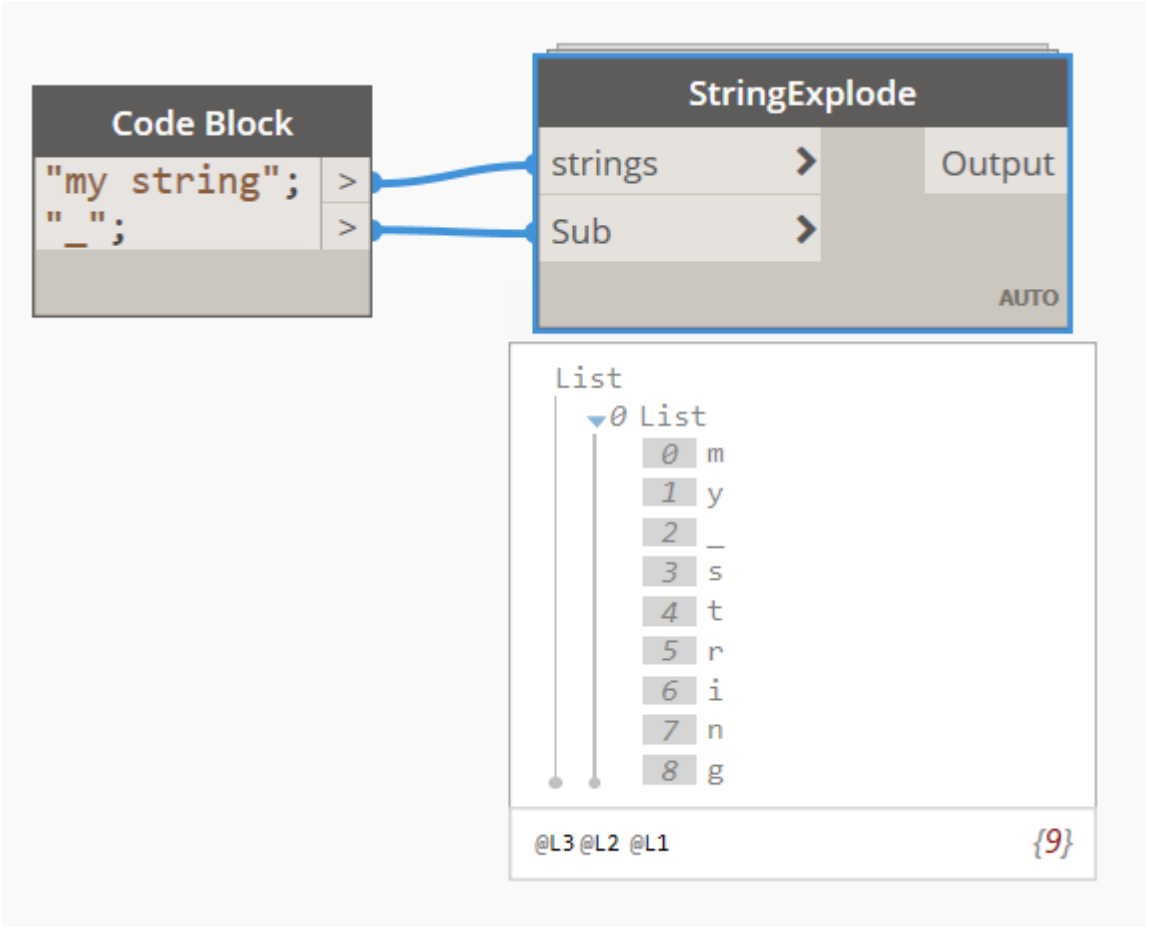
If Then/else


Boolean
True
False
>
Code Block
1..5..1;
1..10..1;
>
>
IfThenElse
If
Then
Else
Output
AUTO
List
0 1
1 2
2 3
3 4
4 5
@L2 @L1
{5}

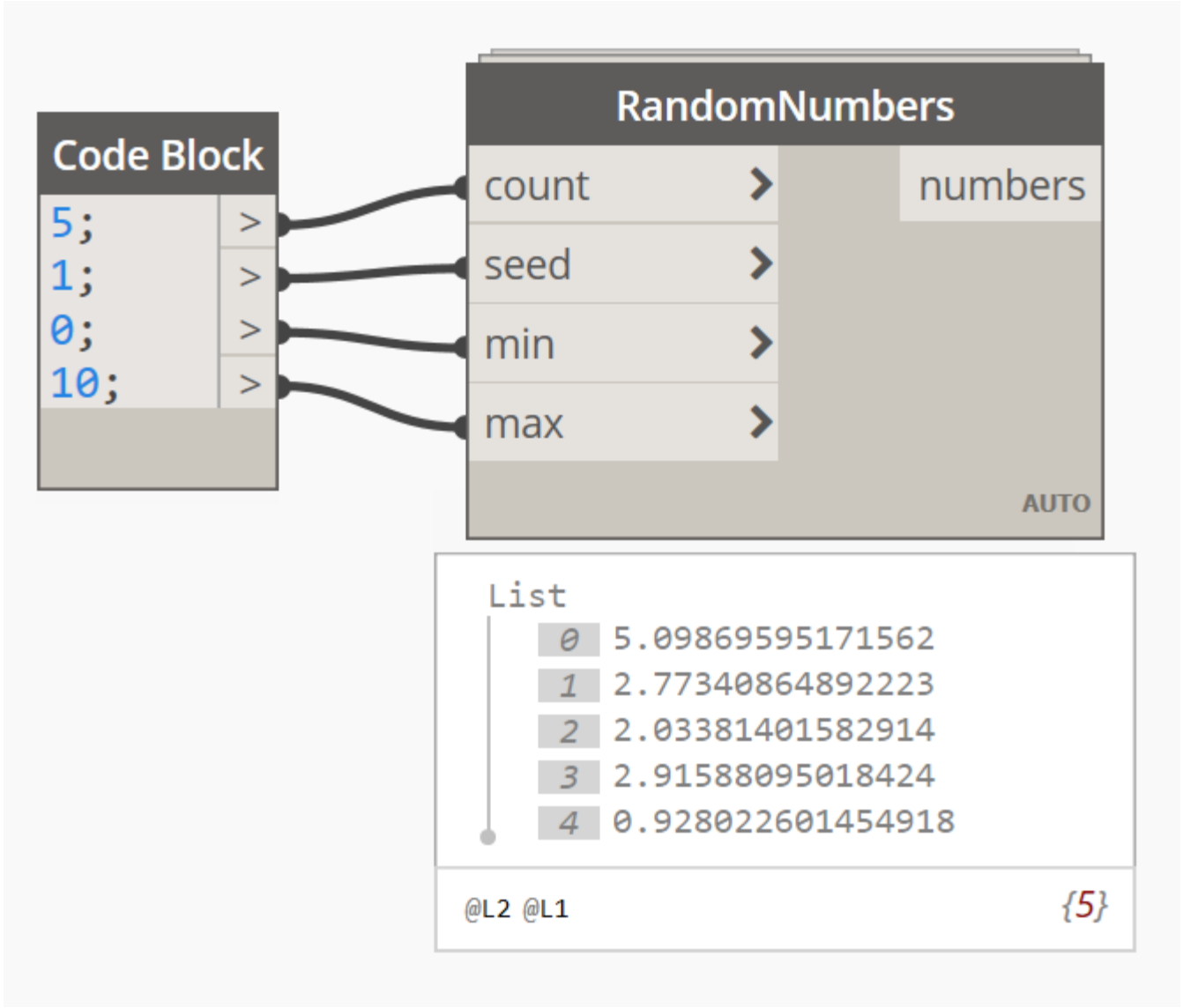
Force list


Watch
>
>
5
Code Block
5;
1..3..1;
>
>
ListForce
items
List
AUTO
List
0 5
@L2 @L1
{1}
Watch
>
>
List
0 5
@L2 @L1 {1}

Explode string



Random Numbers



Future Videos

Basic samples

Revit API

Advanced samples

And more!

Crumple is on github

https://github.com/aussieBIMguru

Basic Examples

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