



Learn Dynamo

Lesson 5

Recap

0 – 1: Introduction

2 – 3: Data Types

List and Data Management

4: List Creation and Management

5: Design script and Code Blocks

6: Working with Revit Data

And more to come from there...



aussie BIM guru

Lesson 5

Design Script and Code Blocks



aussie BIM guru

I know I promised no coding

We're going to use a bit....

But I'll keep it **simple** and **useful**



aussie BIM guru



aussie BIM guru

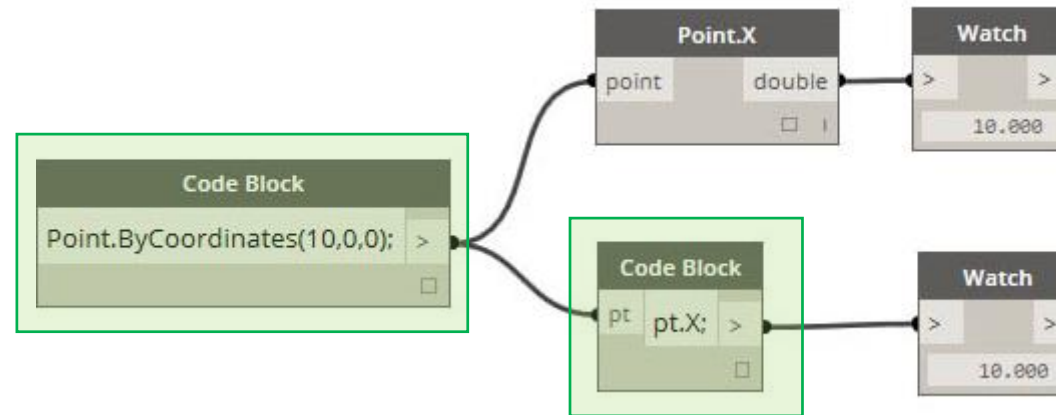
Next lesson

We're back to 95% 'Noding'



aussie BIM guru

Code Blocks

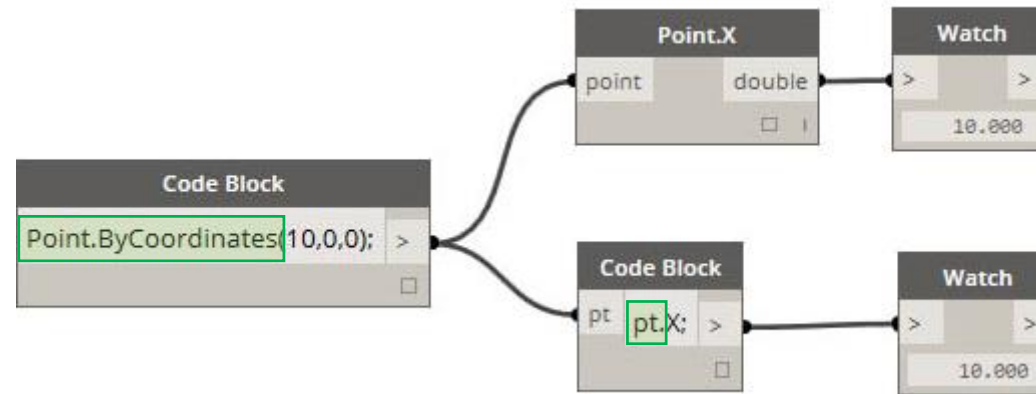


Enable shorthand
Can use 'Design scripting'



aussie BIM guru

Design Script

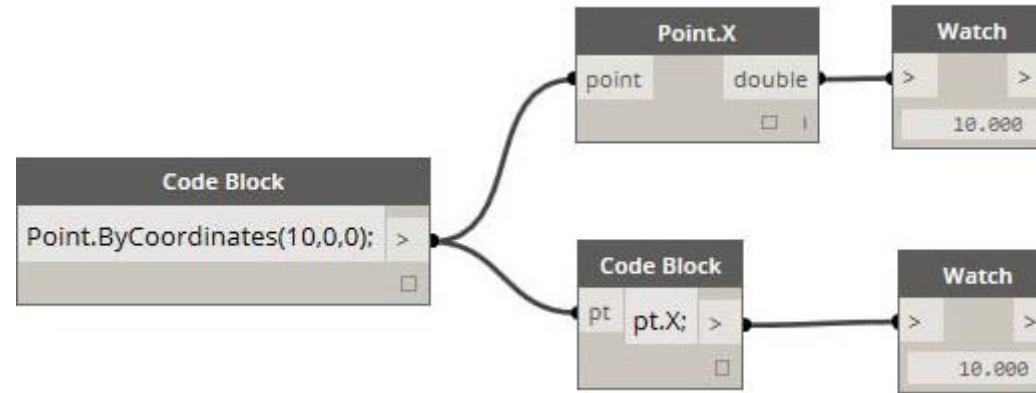


Code Language native to Dynamo
See them as functions
'Under the hood' of most Nodes



aussie BIM guru

Code Blocks/Design Script

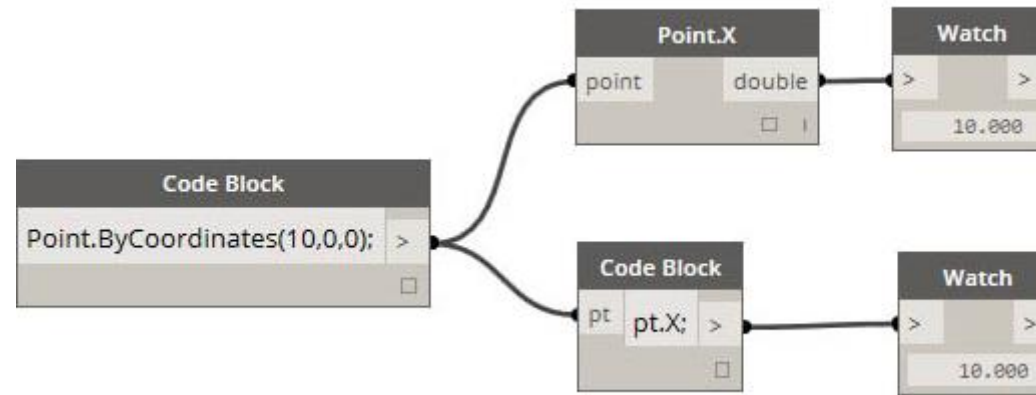


Code Language native to Dynamo
'Under the hood' of most Nodes



aussie BIM guru

The Good



Efficient to use

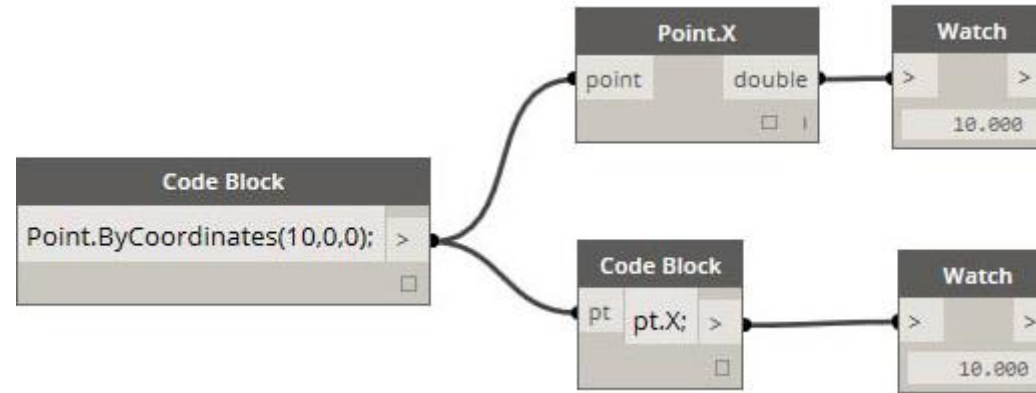
Save writing and running time

Dynamo will guide you to some degree



aussie BIM guru

The Bad

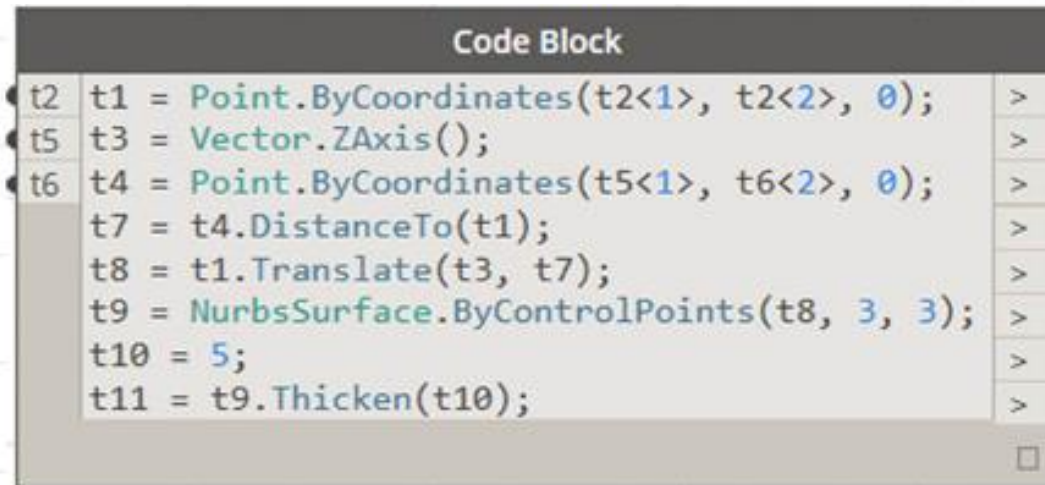


Take time and experience to learn
Rely heavily on syntax



aussie BIM guru

The Ugly



```
Code Block
t2 t1 = Point.ByCoordinates(t2<1>, t2<2>, 0); >
t5 t3 = Vector.ZAxis(); >
t6 t4 = Point.ByCoordinates(t5<1>, t6<2>, 0); >
t7 = t4.DistanceTo(t1); >
t8 = t1.Translate(t3, t7); >
t9 = NurbsSurface.ByControlPoints(t8, 3, 3); >
t10 = 5; >
t11 = t9.Thicken(t10); >
```

‘Boys from the men’
Steep learning curve

Revit syntax has and will change on you



aussie BIM guru

Typical Syntax

Thing • Method (Inputs)

A bit like Python Syntax
(but not exactly)



Straight to Dynamo

No time to waste!



aussie BIM guru



aussie BIM guru

Finding Help!

Dynamo Primer

<https://primer.dynamobim.org/>

Dynamo Forums

<https://forum.dynamobim.com/>



aussie BIM guru

Next: Lesson 6

Working with Revit Data



aussie BIM guru



See you in the
next Lesson!