



[04]

Lists and Data Structures

Working with more than one thing at once

THE PRESENTER



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Designated Support Specialist: Generative
Design & BIM

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SAFE HARBOUR

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AGENDA



01.

15 Minute Presentation:
Lists



02.

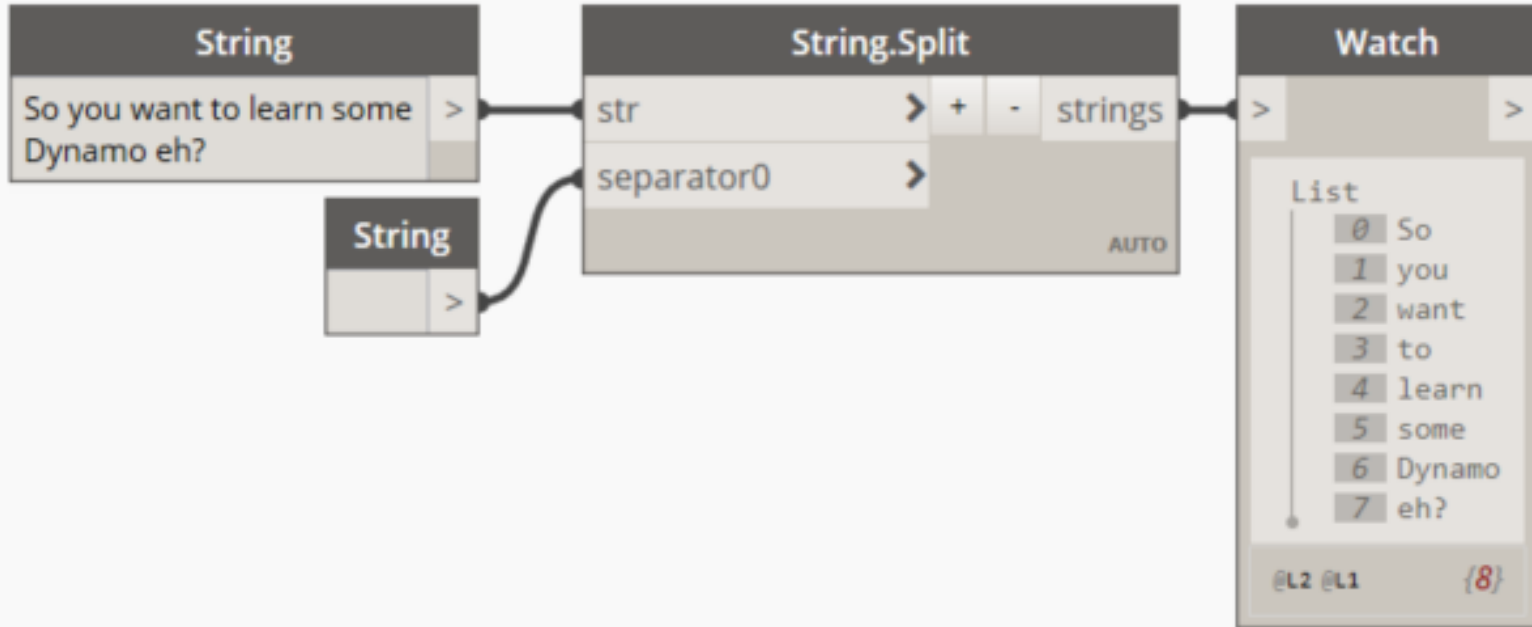
Questions & Answers



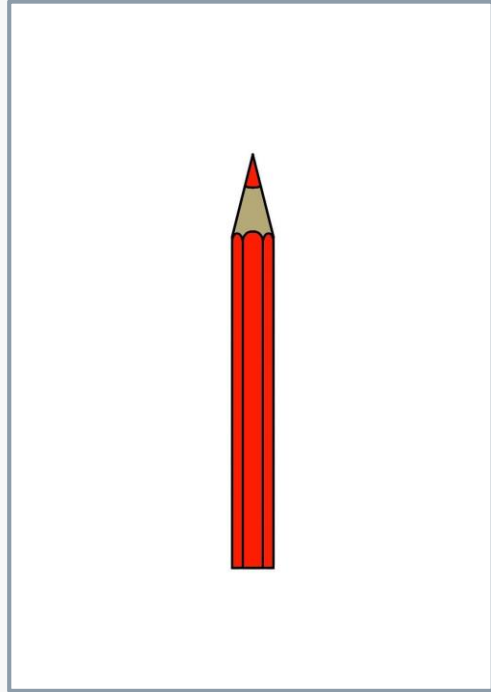
03.

Bonus:
Lacing

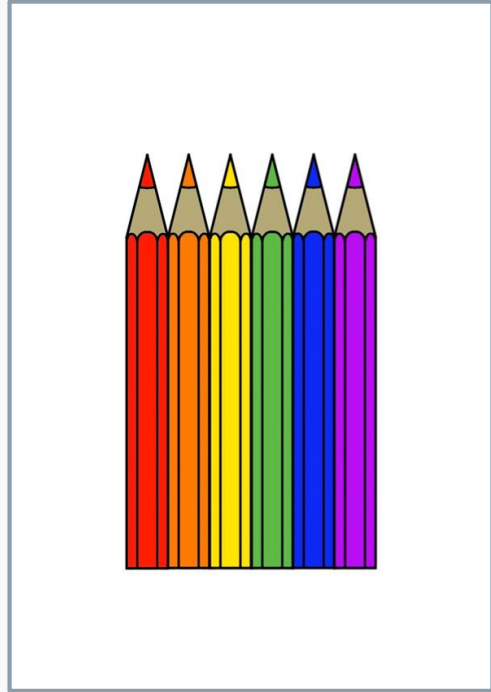
Lists



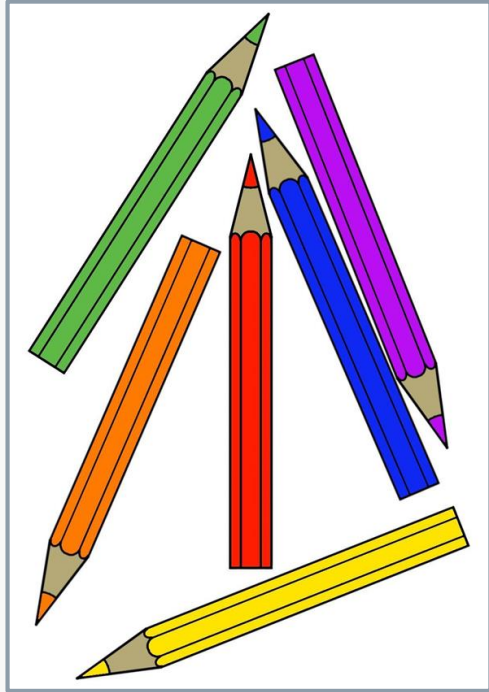
Lists



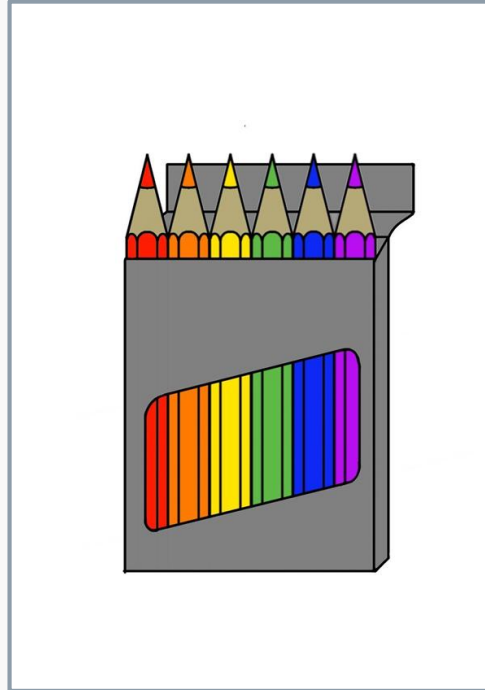
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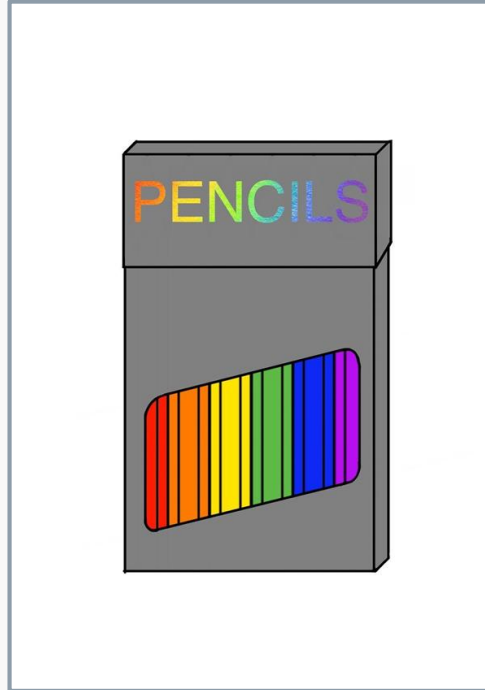
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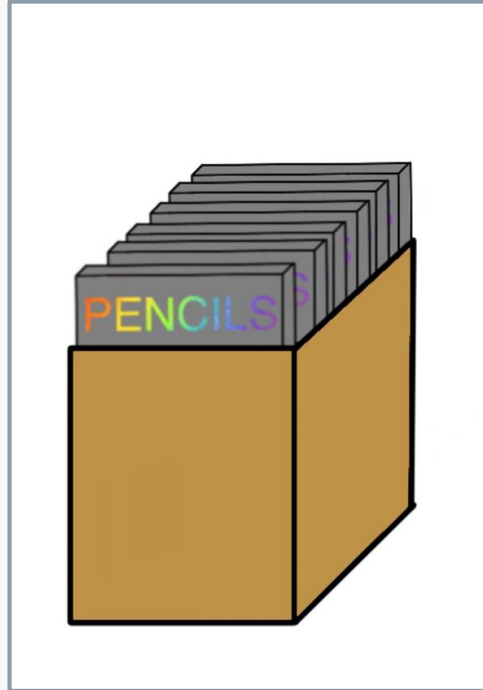
Lists



Lists



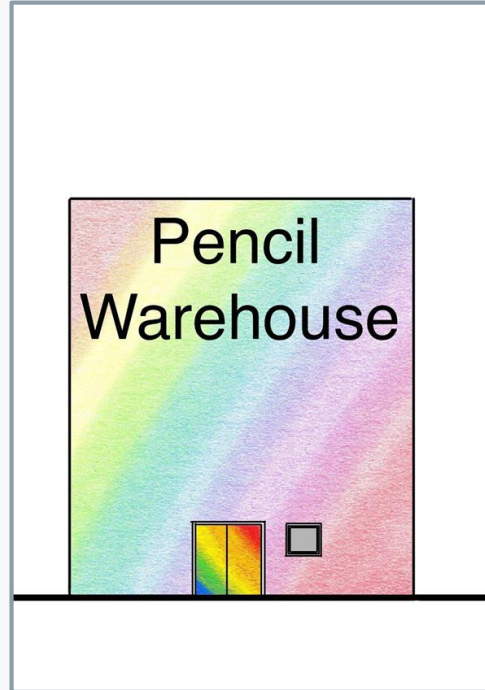
Lists



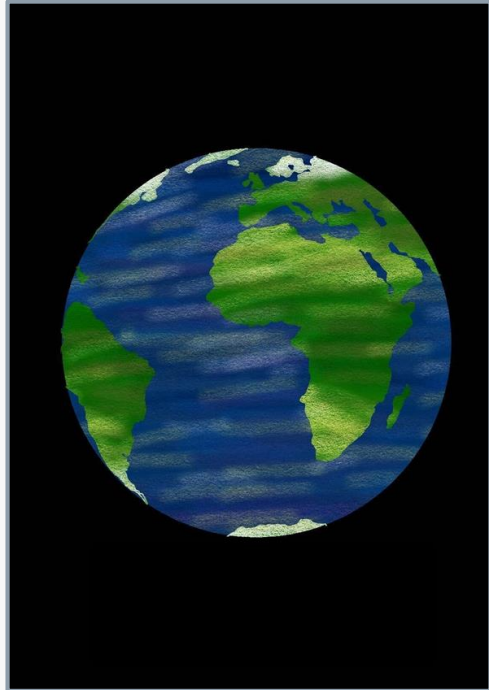
Lists



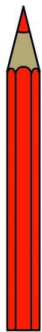
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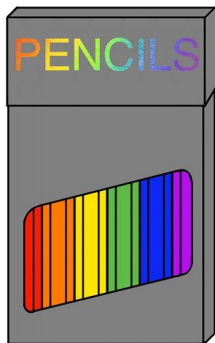
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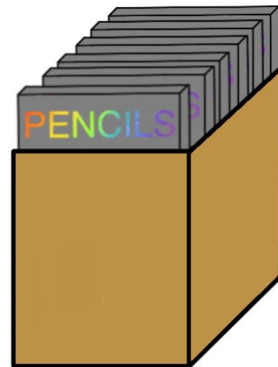
Lists



Item
var
Pencil



List
Var[]
Pencil[]

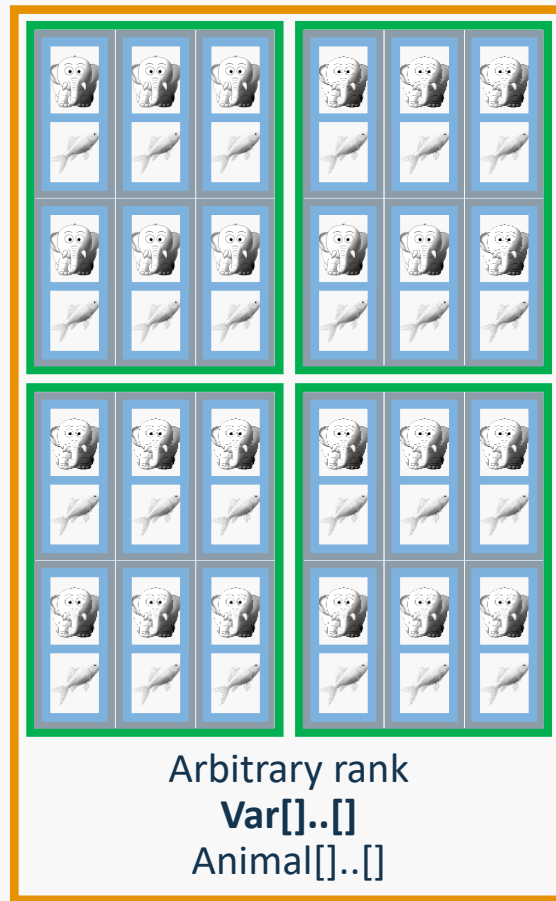
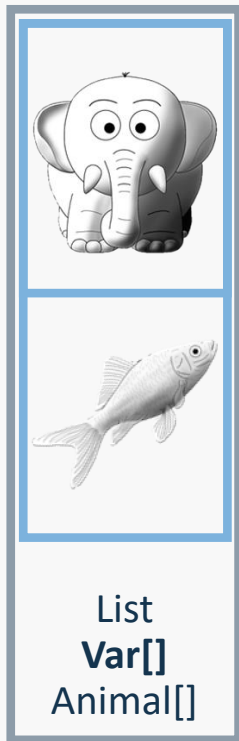


List of lists
Var[][]
Pencil[][]

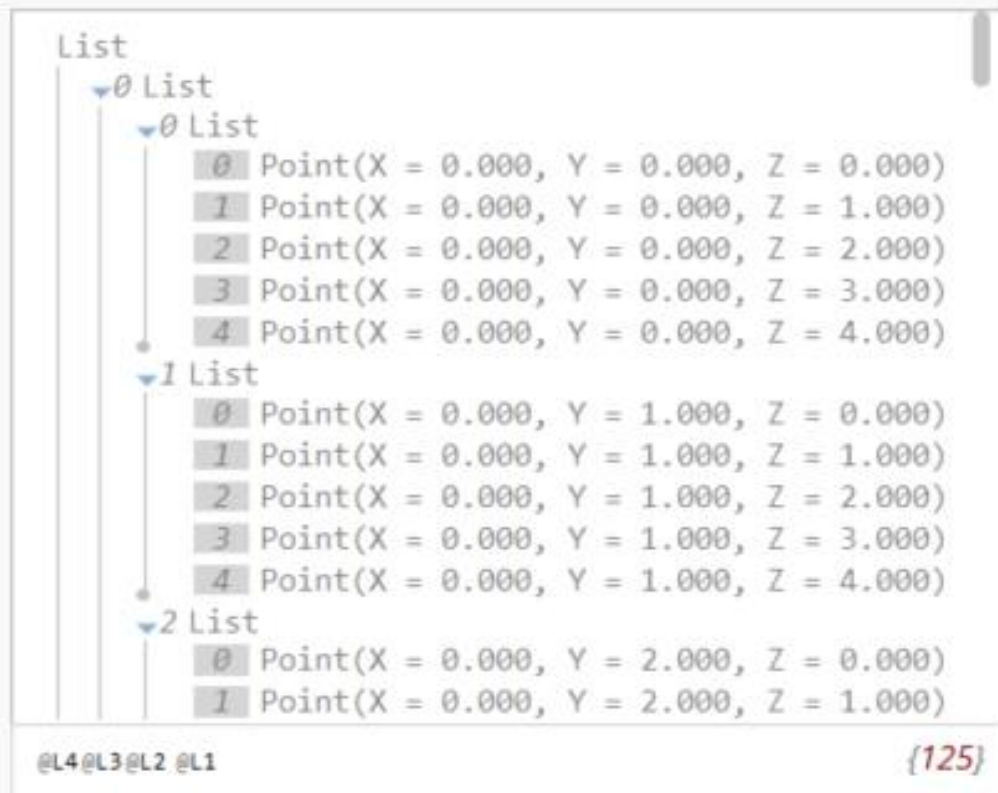


Arbitrary rank
Var[]..[]
Pencil[]..[]

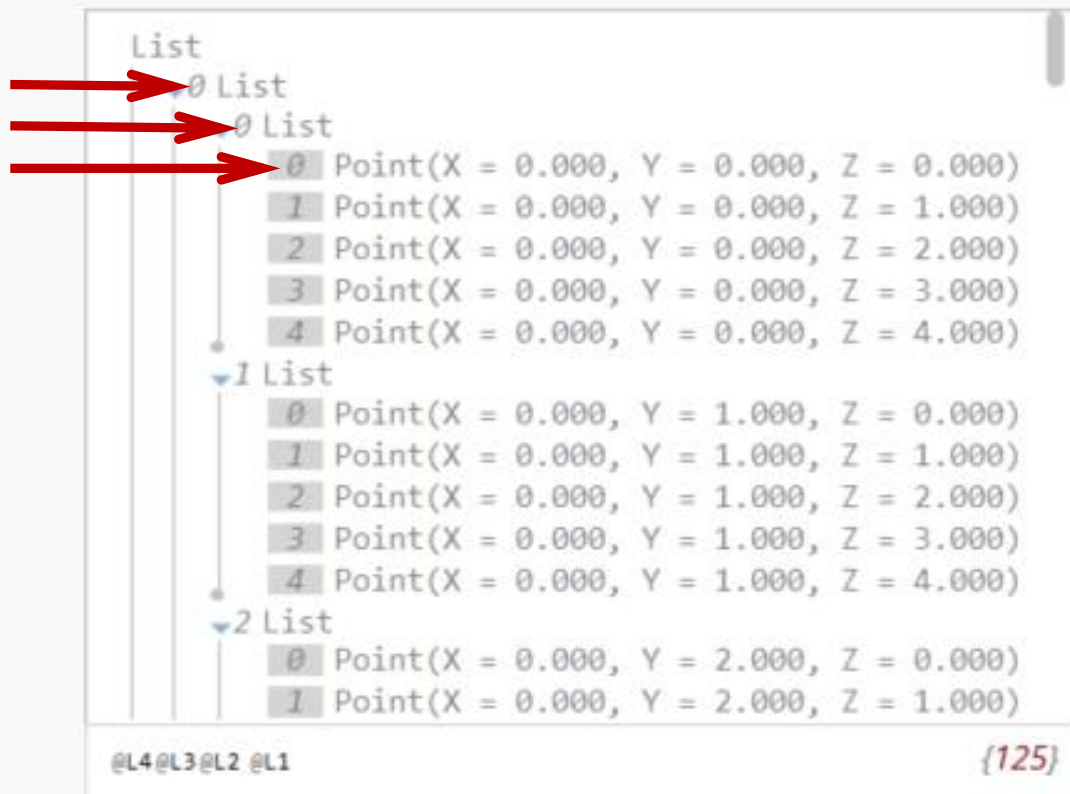
Lists



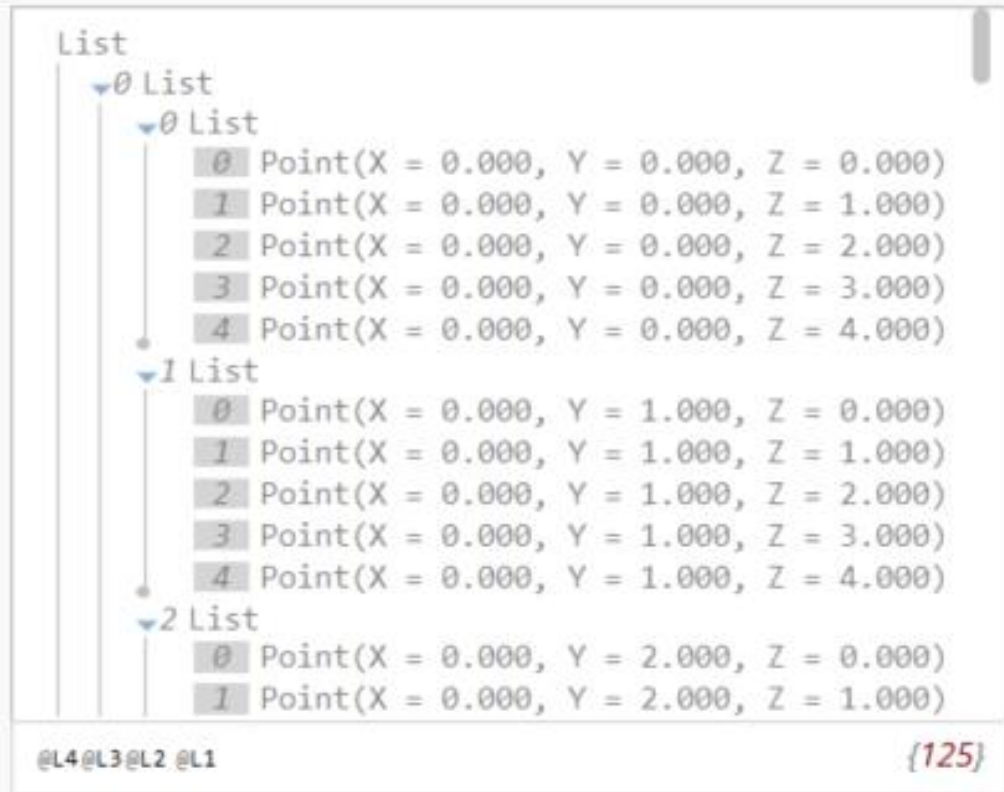
Lists



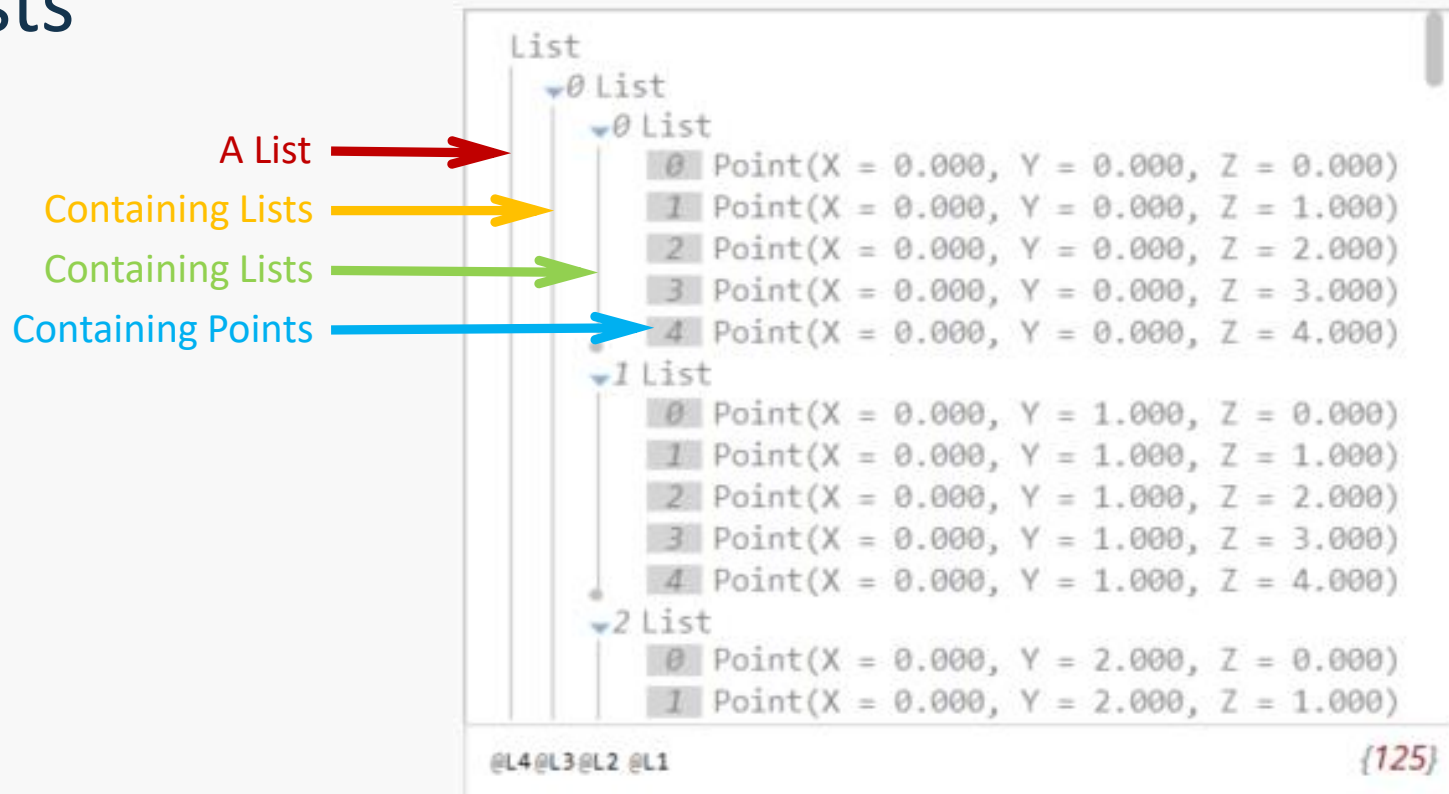
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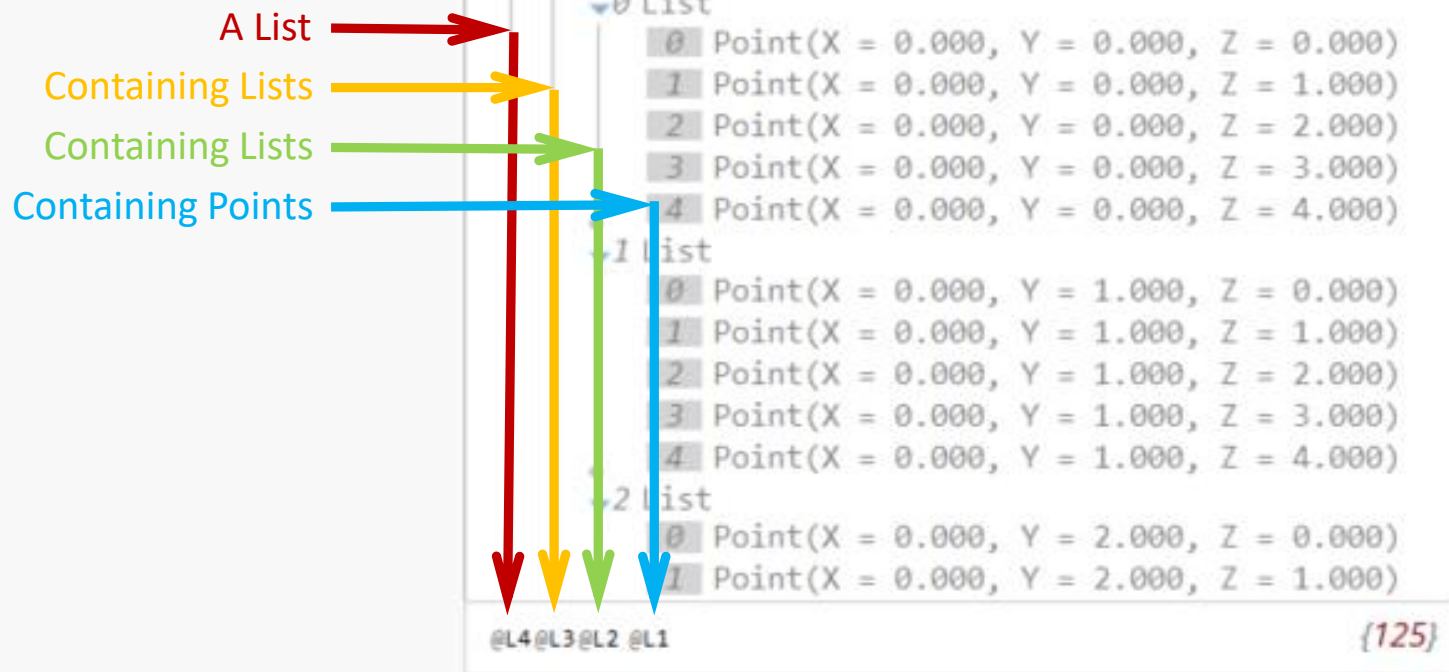
Lists



Lists

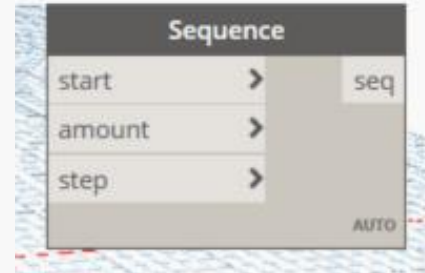
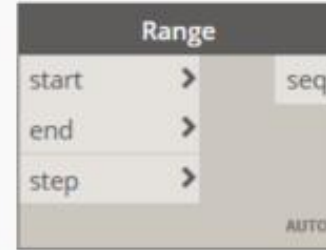
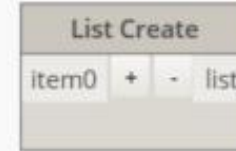
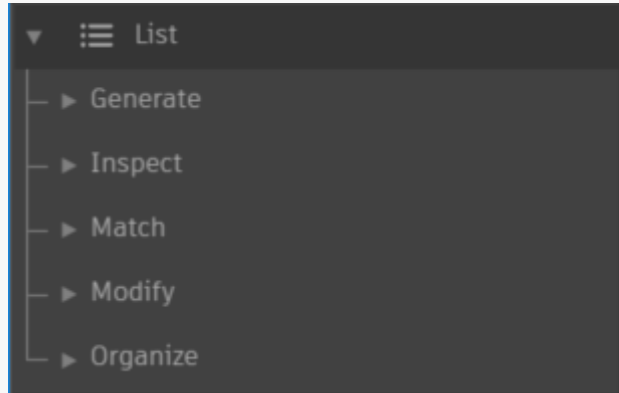


Lists



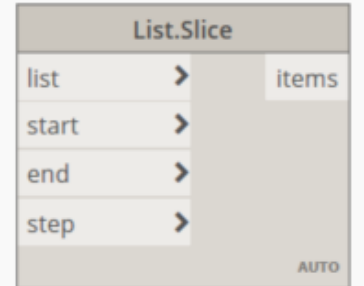
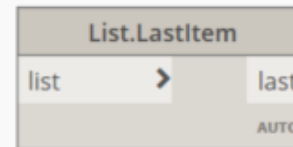
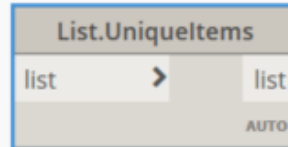
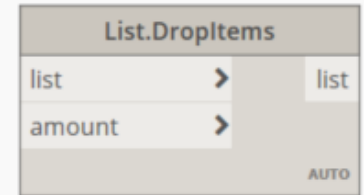
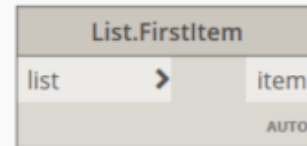
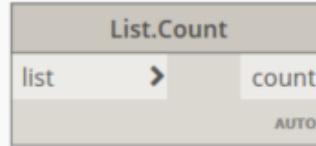
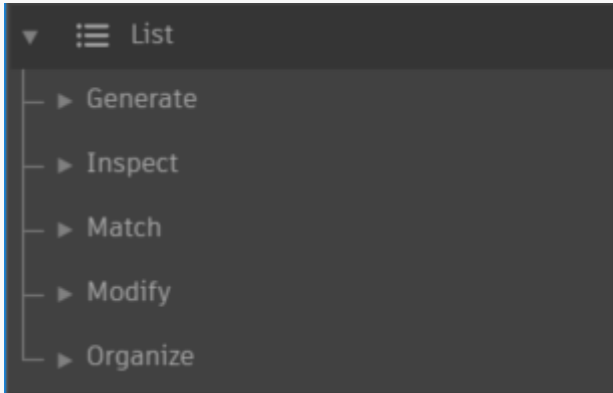
Working with Lists

Create



Working with Lists

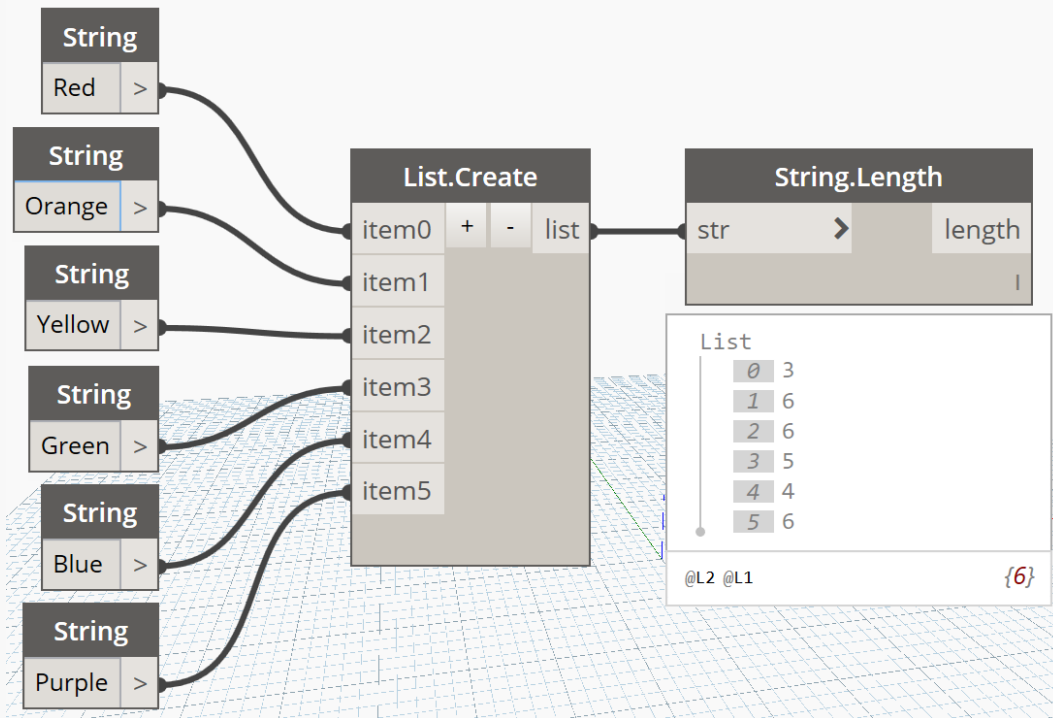
Useful nodes



Transpose

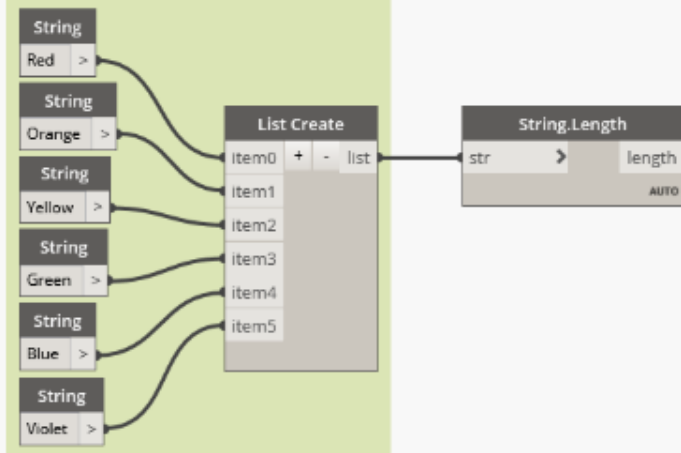


Functions on Lists



Demo!

List of Colors



LEARNING RESOURCES

Bookmark these in your preferred browser

Dynamo Info / News

- Main: <http://dynamobim.org/>
- Blog: <https://dynamobim.org/blog/>
- Dynamo Builds: <http://dynamobuilds.com/>
- Dynamo GitHub: <https://github.com/DynamoDS/Dynamo>

Dynamo Learning

- Dynamo Primer: <http://primer.dynamobim.org>
- Dynamo Forums: <https://forum.dynamobim.com/>
- Dynamo Dictionary: <https://dictionary.dynamobim.com>
- Dynamo Nodes: <https://dynamonodes.com/>

Design Script:

- Design Script Language Summary:
http://designscript.io/DesignScript_user_manual_0.1.pdf
- Design Script Language Guide: <https://dynamobim.org/wp-content/links/DesignScriptGuide.pdf>
- Design Script Presentation:
<https://github.com/Amoursol/dynamoDesignScript>

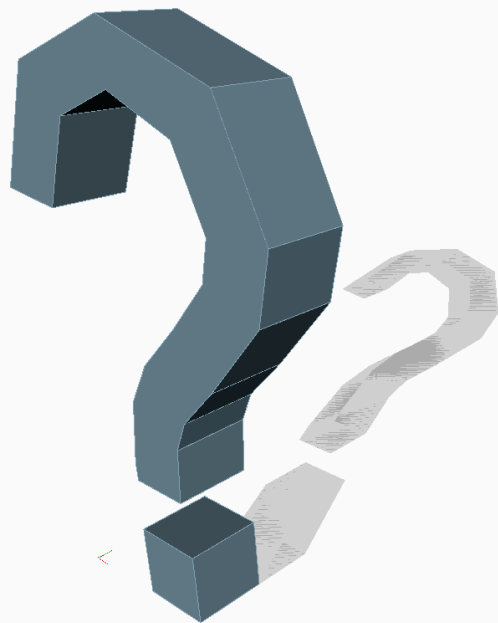
Dynamo Python:

- Python for Dynamo AU Lab Handout 1:
https://docs.google.com/document/d/1_ms_ZyyKoaWbWbcio3CN5qTl2Ywq4OJep3SIsWOXXul/edit#heading=h.76xq4kaz9plc
- Python for Dyanmo AU Lab Handout 2:
https://github.com/Amoursol/dynamoPython/blob/master/images/DivingDeeper_ABeginnersLookAtPythonInDynamo_AU_London2018.pdf
- Python for Dynamo examples:
<https://github.com/Amoursol/dynamoPython>

Generative Design:

- Info: <https://www.autodesk.com/campaigns/refinery-beta>
- Generative Design Primer: <https://www.generativedesign.org/>
- Beta Site: <https://feedback.autodesk.com/key/RefineryLanding>

Questions?





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