Supercharge your Dynamo Graph with Civil 3D Toolkit

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About the speaker

Jowenn S. Lua

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• B.S. Civil Engineering degree from De La Salle University
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Learning Objectives

• Be familiarized and use Civil 3D Toolkit
• Create simple and re-usable routine
• Navigate and debug your dynamo graph
• Create your own automation routine
Civil 3D Toolkit
Civil 3D Toolkit

WHAT IS CIVIL 3D TOOLKIT?
• Package created inside dynamo for Civil 3D
• Developed to supplement the out of the box nodes

WHO DEVELOPED THIS?
• Paolo Emilio Serra
• Safi Hage

WHY DO I NEED THIS?
• Offer at least 500+ additional nodes
• Widely used in the Civil 3D community

Photo Credit:  http://www.mural.co/
Civil 3D Toolkit

WHERE TO GET IT?

• Open Dynamo in Manage tab
• Go to Packages tab search for Civil3DToolkit
• Install the latest version
Civil 3D Toolkit

WHERE TO FIND IT?
• In the library side below Add-Ons

HOW TO CHECK VERSIONS?
• Go to Packages tab
• Click Manage Packages
Civil 3D Toolkit

WHAT ARE THE CURRENT CATEGORIES AVAILABLE AS OF V1.1.10?
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Civil 3D Toolkit

WHAT ARE THE CURRENT CATEGORIES AVAILABLE AS OF V1.1.10?
Re-usable Routine
Civil 3D Toolkit > AutoCAD & Civil 3D
Navigating Dynamo Graph
Tips in Navigating Dynamo Graph

ANALYZE
• Purpose
• Input and Output

UNDERSTAND
• Graph management and labels
• Freeze nodes

MODIFY
• Understand error messages or state of nodes
• Find ways to make graph efficient

Photo Credit: http://www.mural.co/
Automation
Tips in creating your own Automation

WHICH TASK TO AUTOMATE?
• Identify repetitive design task
• Small re-usable routine

MEASURABLE AND SCALABLE?
• Time and savings
• Small and bigger scale project

USEFUL IN NEXT PROJECT?
• Re-use or Recycle graph
• Manageable and easy to modify