



# Dynamo website

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An introductory resource for beginners and a long-term reference. See this structured explanation of everything from data management to computational geometry and working with Revit.

A community powered, comprehensive reference to the functionality and utility of every node in Dynamo. Use the Dynamo Dictionary as a quick reference or an in-depth guide to extend your skills and empower your graphs.

Dynamo hosts a thriving ecosystem for Development. This page takes you down the rabbit hole of all of the tools available for customizing your Dynamo experience. From top-to-bottom, we'll start with the "out-of-the-box" options and go deeper as we progress down the page.

In this course, we will provide an in-depth overview of Dynamo, a visual programming plugin for designers. We'll look at the node system and interoperability workflows to integrate computational design capabilities into your design workflows.

In this lesson, we will take a closer look at the specific elements used to create a Dynamo graph. By the end of this lesson, you will have an understanding of the components that comprise a Dynamo graph, the basics of defining an algorithm, and what it means to map together nodes to update results.

In this lesson, we're going to cover annotation strategies for your Dynamo graph. Annotating and cleaning up Dynamo graphs is a very important part of your Dynamo workflow. Specifically, if you're looking to share your graphs with anyone else, you want to be very clear and concise as to what your graph is doing.

In this lesson, we're going to take a look at additional ways of cleaning up and documenting our Dynamo graphs. By the end of this lesson, you're going to learn ways to interact with the wires of a Dynamo graph and take a look at further documentation strategies for serializing properties within our Dynamo graphs.

In this lesson, we will discuss the basic concepts of creating and working with lists in Dynamo. In Dynamo, we can have lists that contain data of varying lengths and depths. By the end of this lesson, you will have an understanding of list structure in Dynamo, you'll know how to create a list of points, and you'll have an understanding of what lacing is

In this lesson, we will explore concepts for how to manipulate lists and nested lists in Dynamo. By the end of this lesson, you'll have an understanding of what a nested list is and how to obtain items within a nested list.

In this lesson, we're going to cover topics to create a graph with computational logic using an attractor algorithm. While an attractor algorithm sounds intimidating, it is simply a mathematical approach to driving

geometry by proximity to any given point that is considered an attractor point. By the end of this lesson, you will reinforce your understanding of lacing, learn how to create an attractor algorithm, and learn new ways to interact with Dynamo geometry.

In this lesson, we will look at the power behind connecting Dynamo within Revit to an external program, such as Excel, to be able to extract and manipulate data from the Revit environment. By the end of this lesson, you will have an understanding of how to collect Revit room data, how to prepare the data for export, and strategies for ensuring data remains consistent for the import process at a later time.

In this lesson, we will cover strategies for reading data from Excel and relating it to Revit elements. Specifically, we're going to read corrected room names and update the related rooms in Revit. By the end of this lesson, you will know how to read Excel files with Dynamo, select Revit elements by their element ID, and update Revit element parameter values.

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