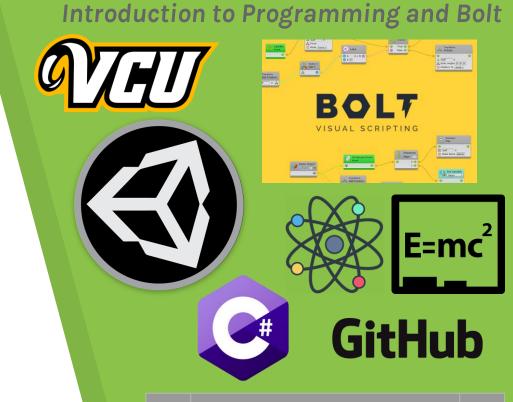
KINE 458: Virtual Interactive Worlds

Todays Objectives:

- Introduction to Programming
- Introduction to Bolt
 - Visual Scripting Overview
 - Installing Bolt
 - Simple Live Demo



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Introduction To Programming

Variables

- Variables serve as ways of storing information in a program.
- Stored information is valuable because it can be reused multiple times when needed.
- Variables typically translate into some real world entity. (E.x. seconds passed, switch status, counts, lists, calculations etc.)
- Imagine a variable as a container
- There are three things we are concerned about with each variable:
 - The name of the container (variable name)
 - ☐ The type of container it is (variable type)
 - ☐ What the container is holding (variable value)

Var name: tomatoContainer
Var type: Square Food Container

Var value: Tomatoes

Types

- Variables have different types, these types are used to store different kinds of information.
- Typing is a key component in determining how variables can interact with each other.

Var name: midSizedEmpty
Var type: Circle Food Container

Var value: Empty







Types (Unity Types Page)

The two main categories of variable types are primitive and object types. These both contain several other subtypes.
Primitive Data Types Int (E.x: 4, -5, 1298) Float (E.x: 1.75, 2.15, -3245.556) Boolean (E.x: true, false) Char (E.x: 'a', 't', 'z') String (E.x: "hello", "victory", "yes")
Object Data Types Vector3 (E.x: <2.5f, 10.2f, -3.2f>, <10.0f, 2.3f, 5.2f>) Vector3 types represent a 3 dimensional vector within 3D space, they contain 3 float values corresponding to the x, y, and z axis Rigidbody GameObject Collider Transform Time

Unity / Bolt

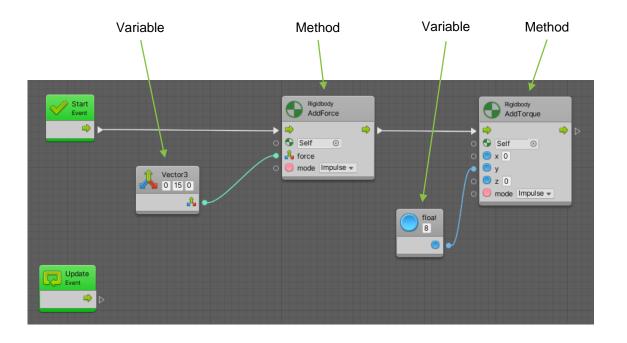






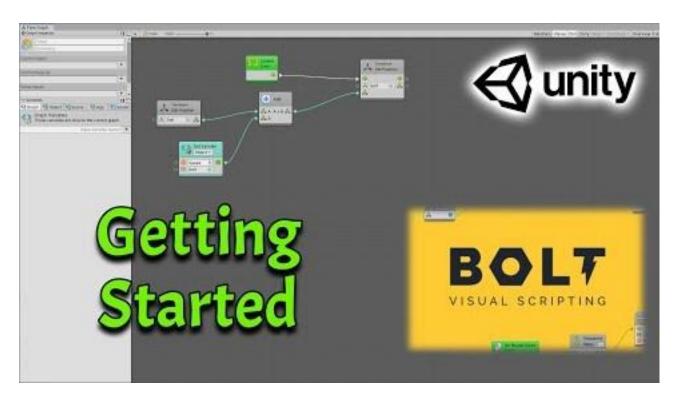
Bolt

☐ Visual Scripting is a visual way of creating programs for your objects in Unity.



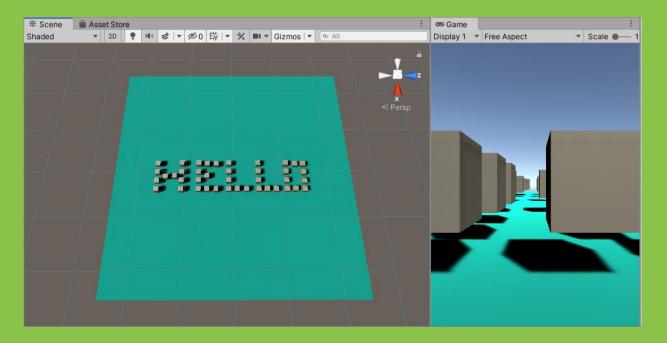


Installing Bolt (Unity Bolt Instillation Page)





Section Two: Live Demo



Additional Resources

Simple Bolt Tutorial 2D (Includes Installation)

Simple Bolt Tutorial 3D (Includes Installation)

Full Bolt Tutorial



Questions?

