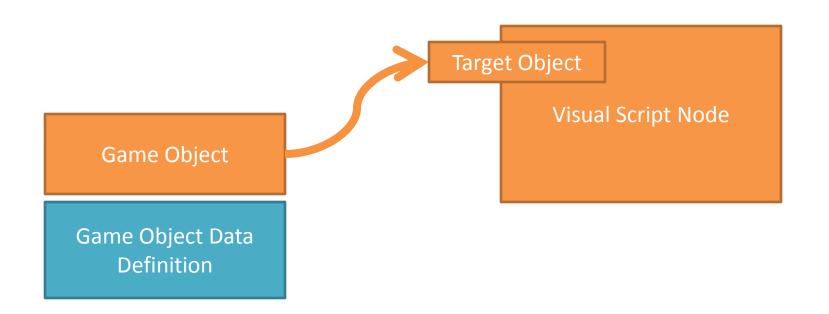
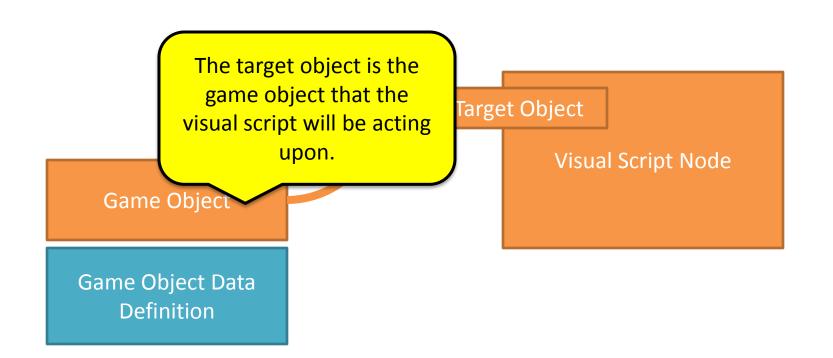
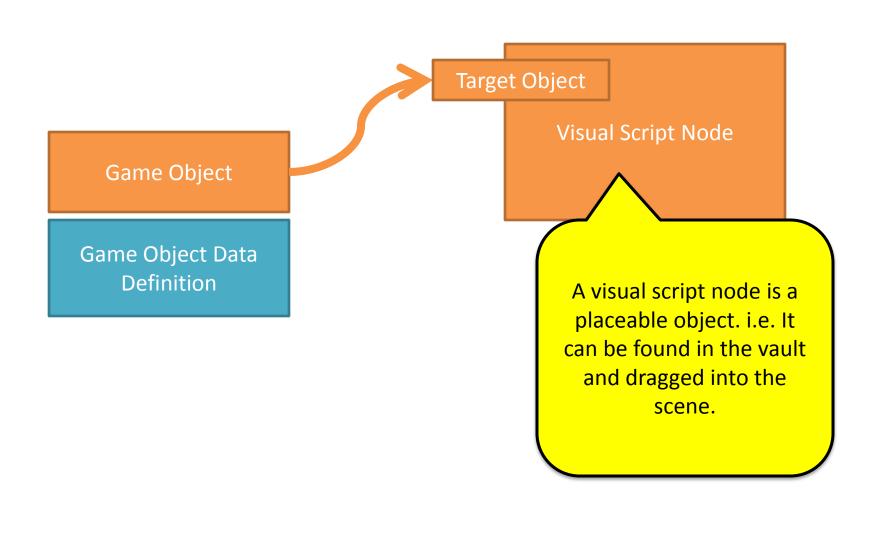
Visual Scripting Dataflow







Game Object

Game Object Data

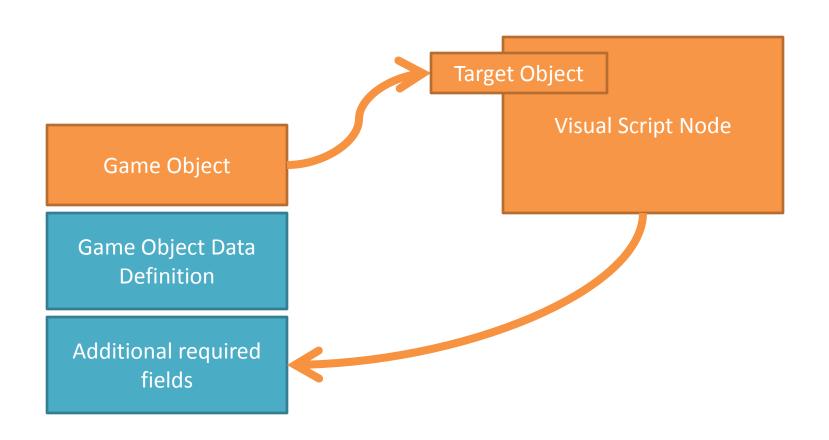
Definition

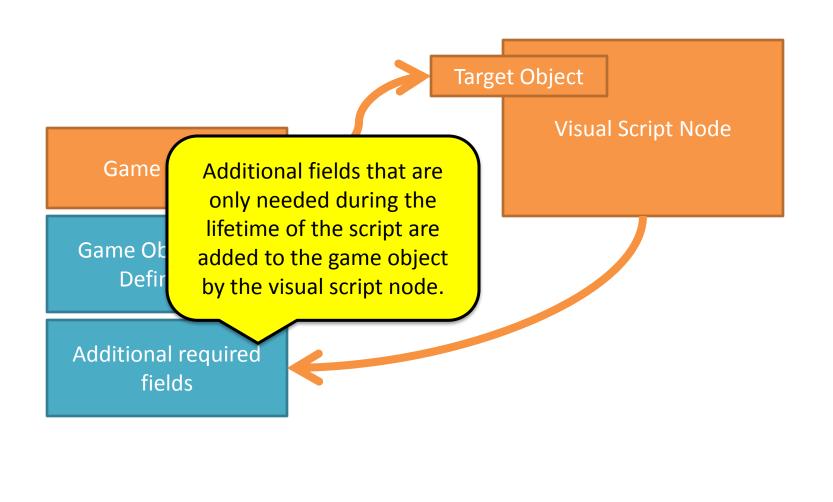
However, while interacting with script objects in the 3D view is sufficient to describe the connections technically, it is not sufficient to solve for our usability requirements. We will also be testing a 2D interface.

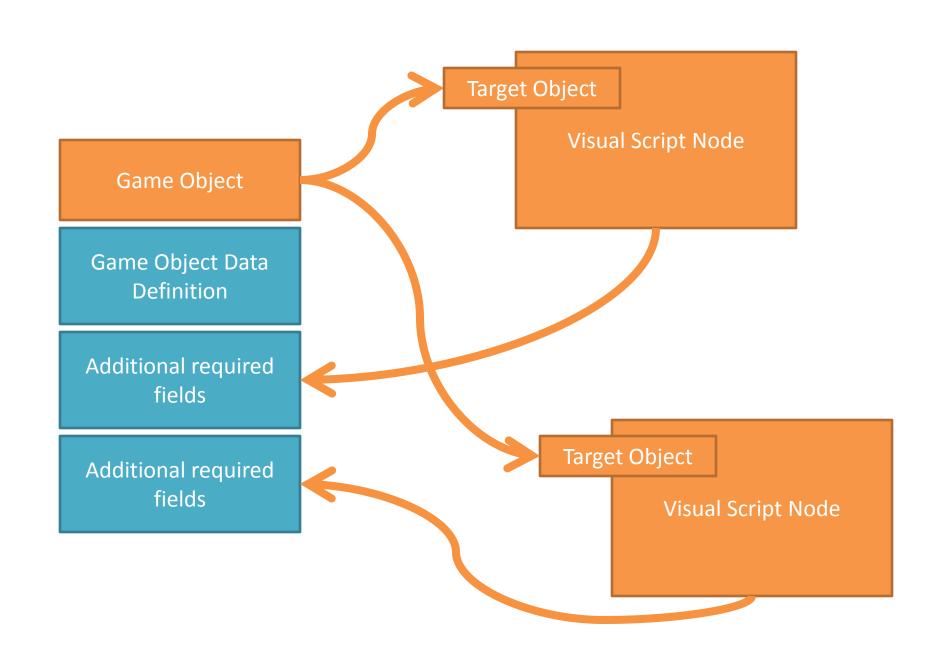
ject

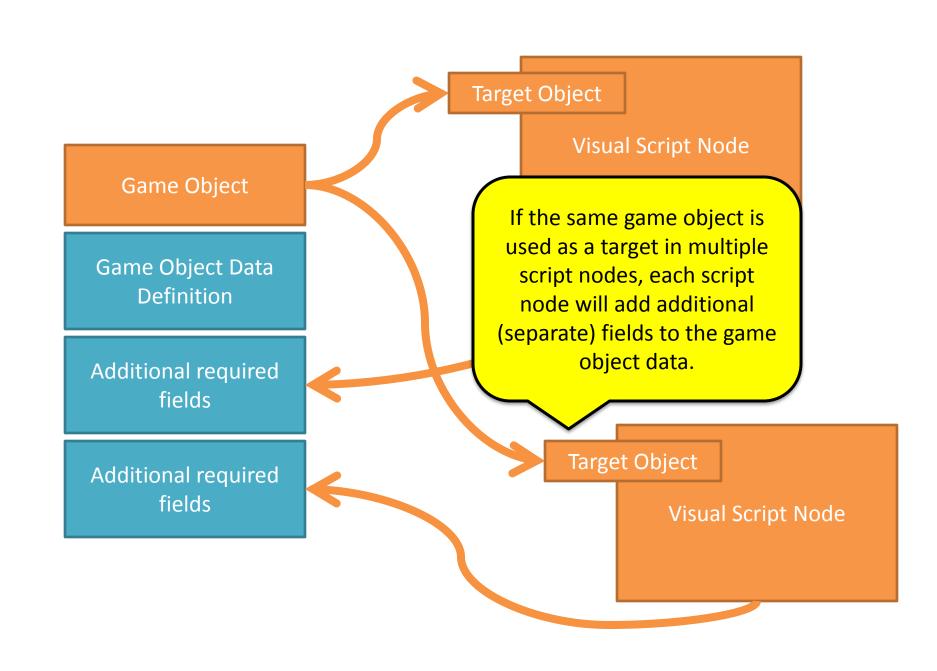
Visual Script Node

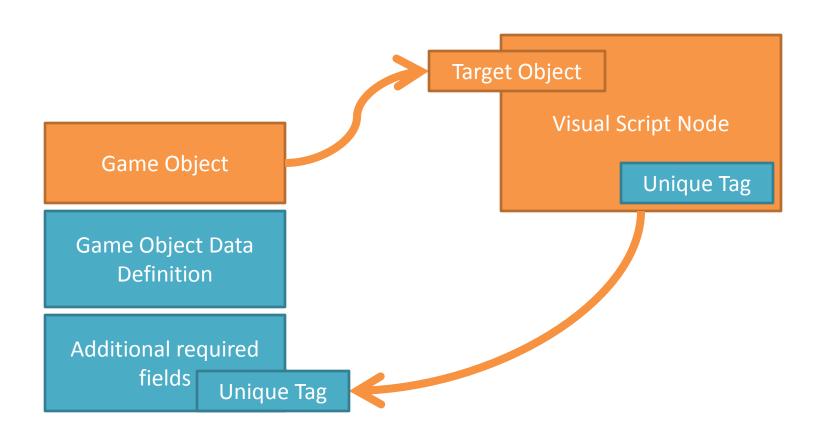
A visual script node is a laceable object. i.e. It in be found in the vault and dragged into the scene.











Game Objec

Game Object D

Definition

A unique tag is used when the fields are added. Multiple visual scripts may add the same fields, but the data in them is specific to the script.

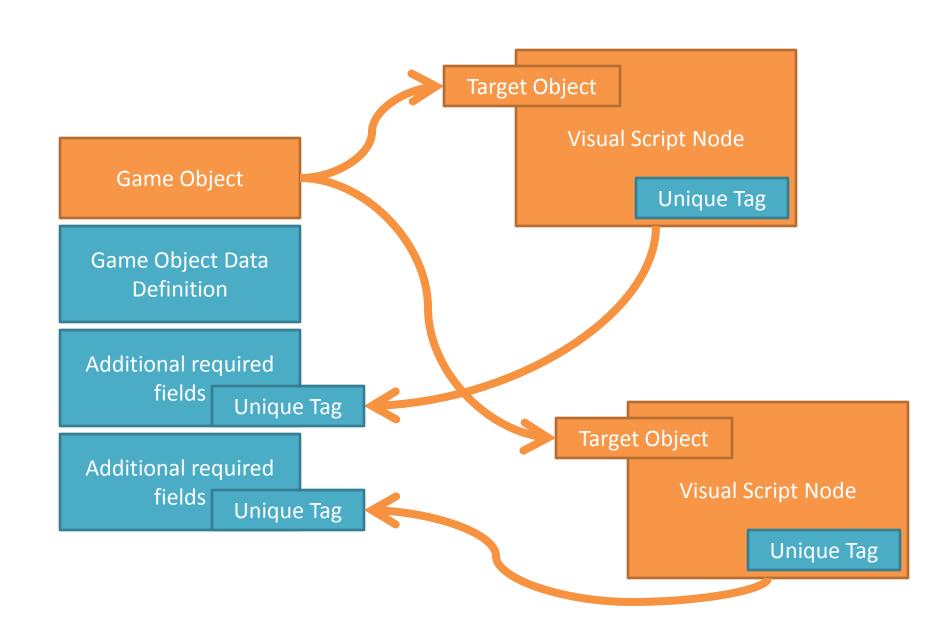
These fields in the game object can only be uniquely identified by the field name + tag pair.

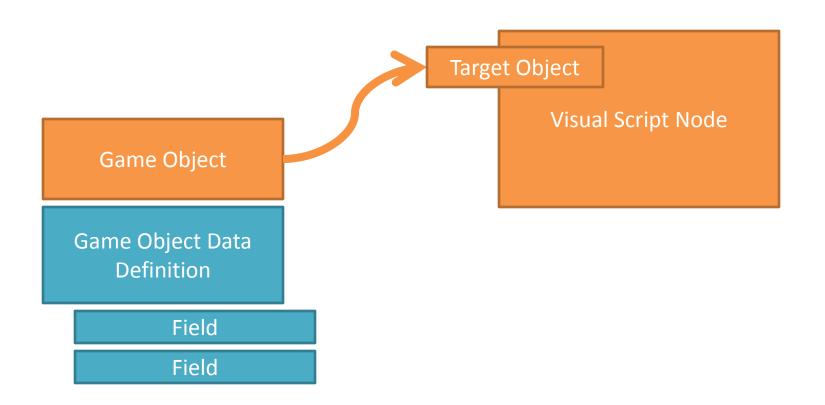
isual Script Node

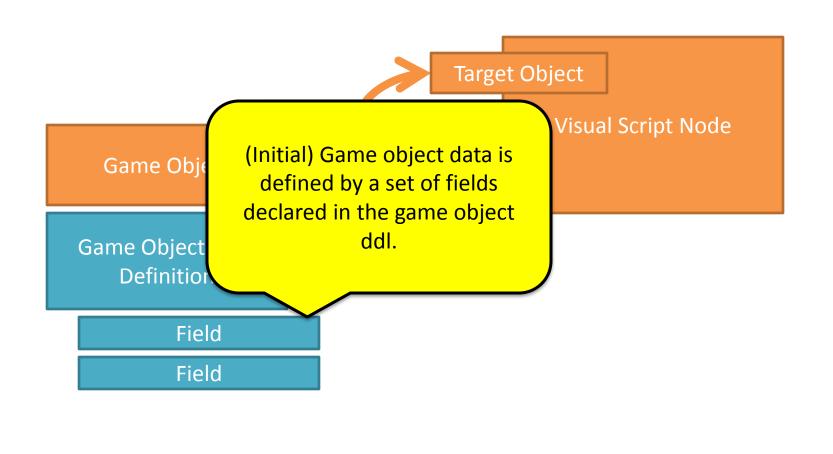
Unique Tag

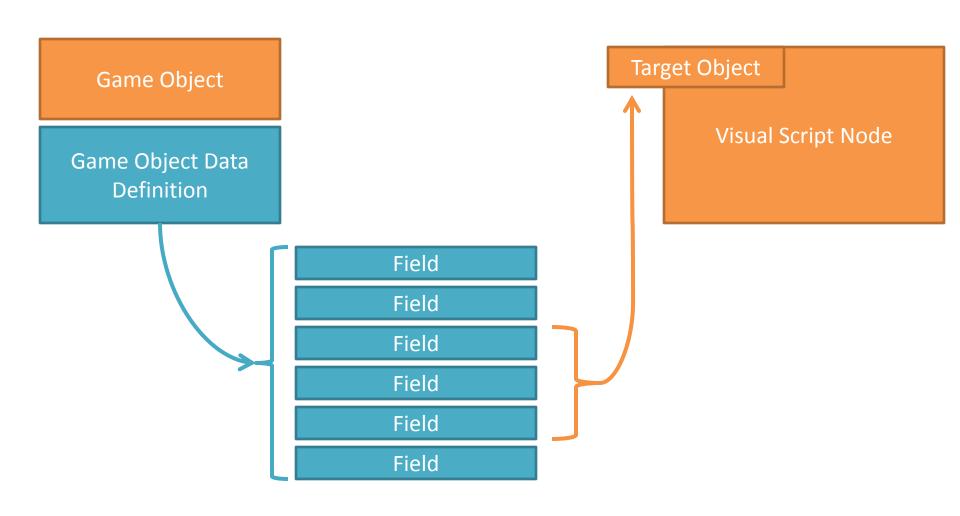
Additional required fields

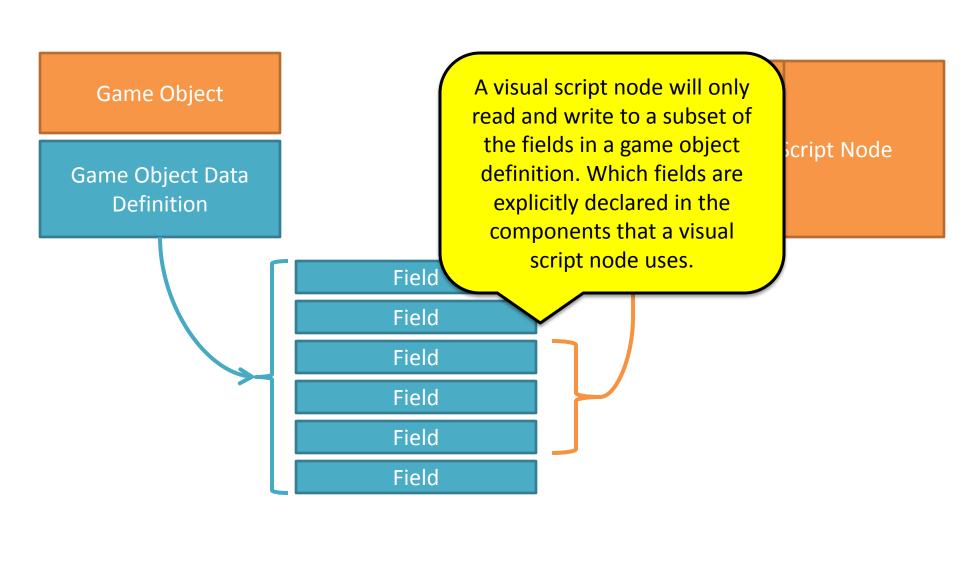
Unique Tag











Game Object

Game Object Data

Definition

Note: Game object data is referenced in visual script nodes by an ID. The ID serves as both a handle for the data which can be moved and changed by other systems, in addition to being a key to identify data associated with the game object which may not be stored in the game object structure itself.

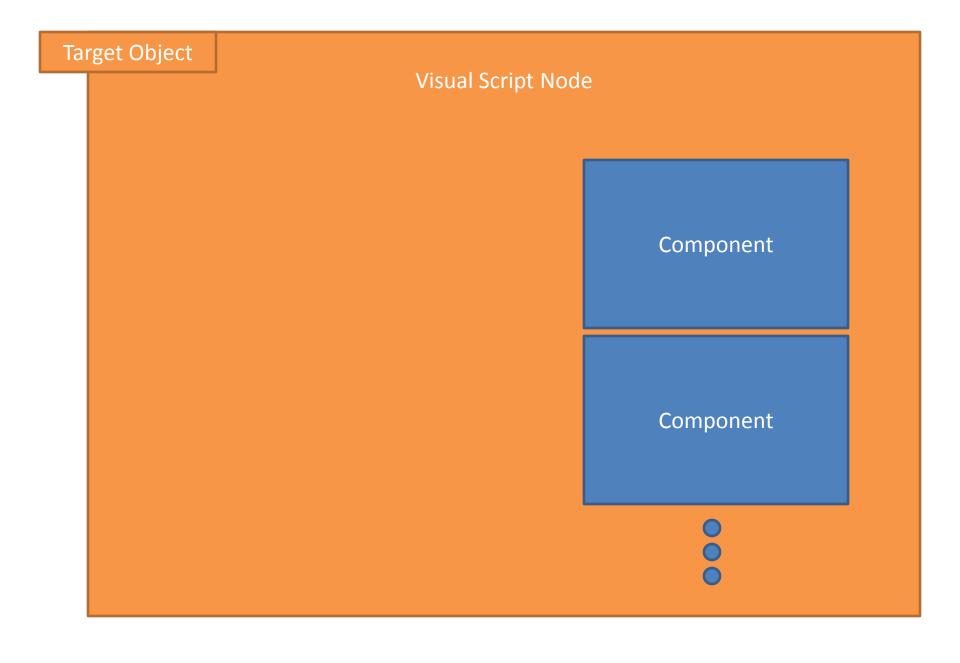
get Object

Visual Script Node

Field

Field

Field



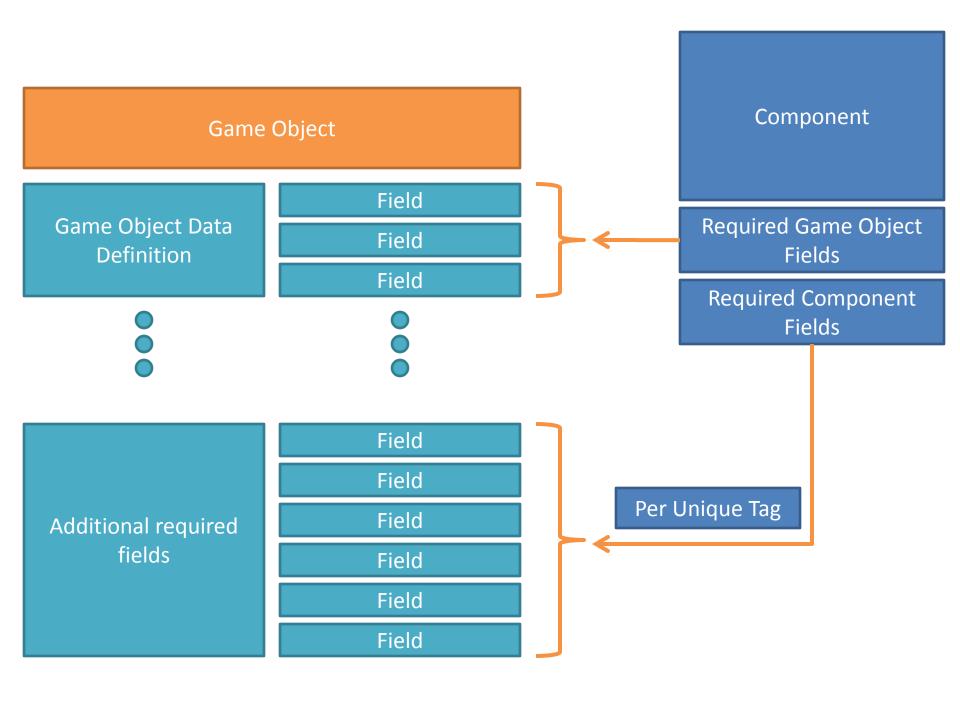
Visual Script Node

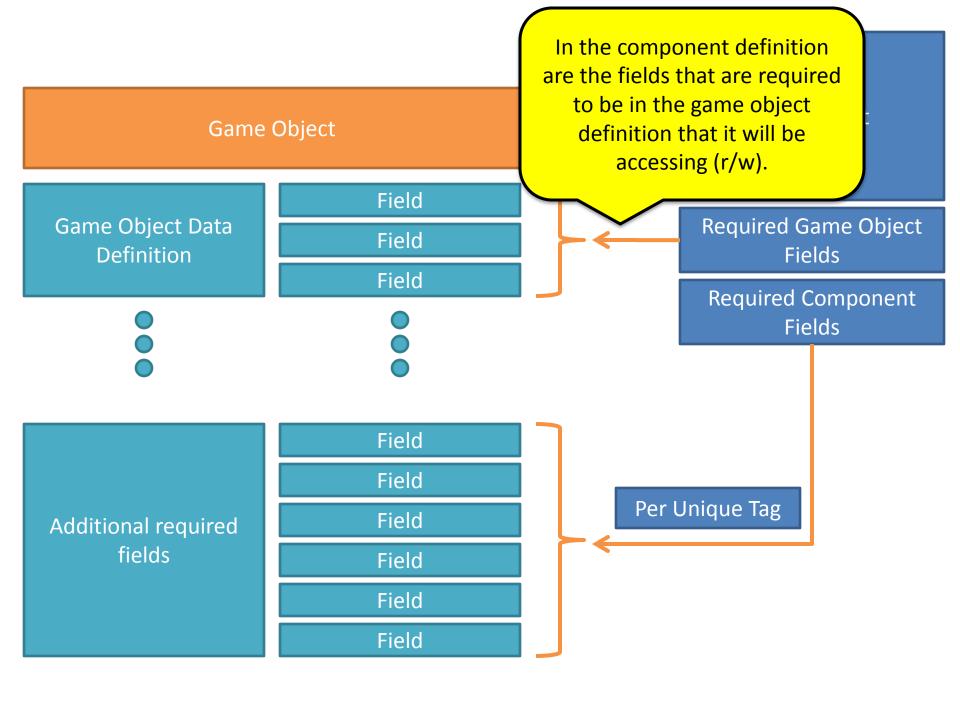
A visual script node can largely be defined as a management wrapper for components. It's responsible for gathering and preparing the correct inputs to components. The components are responsible for the actual transformation on those inputs into data in the target object.

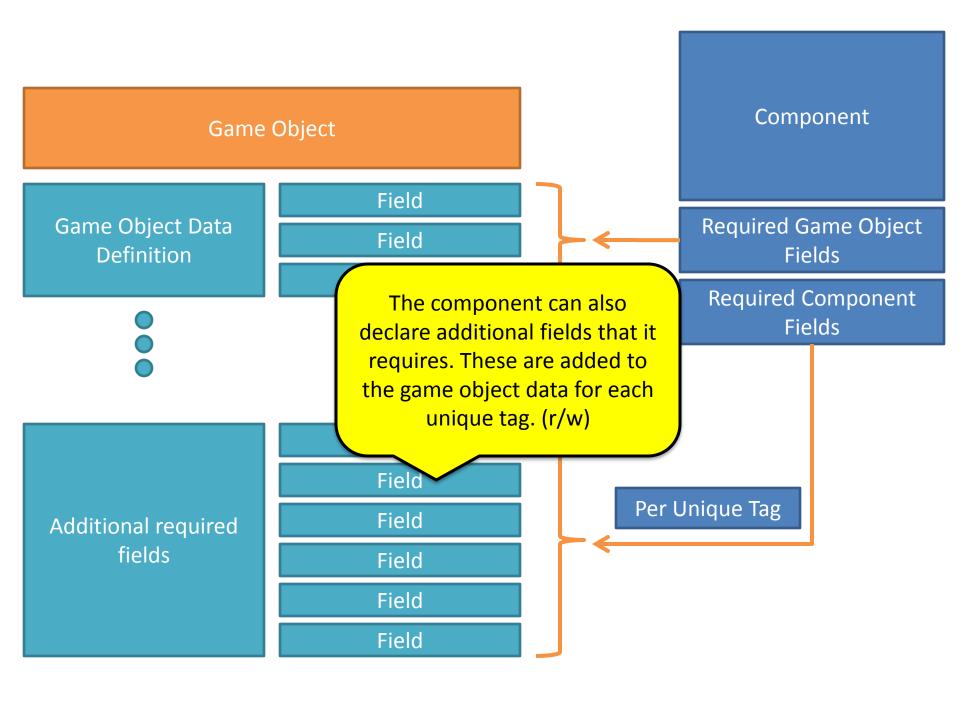
Component

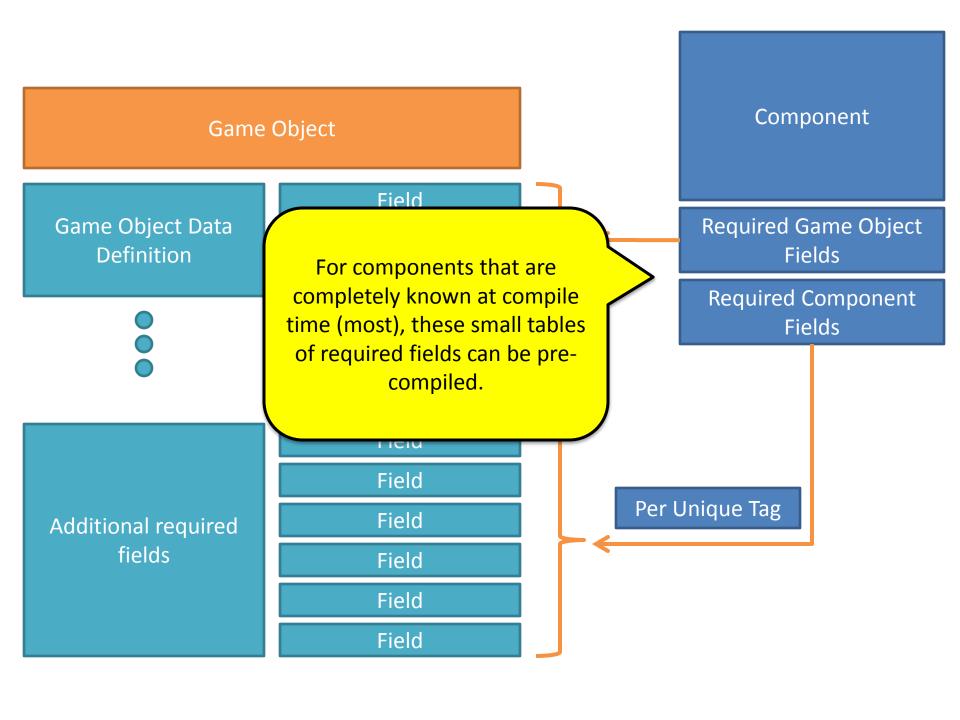
Component

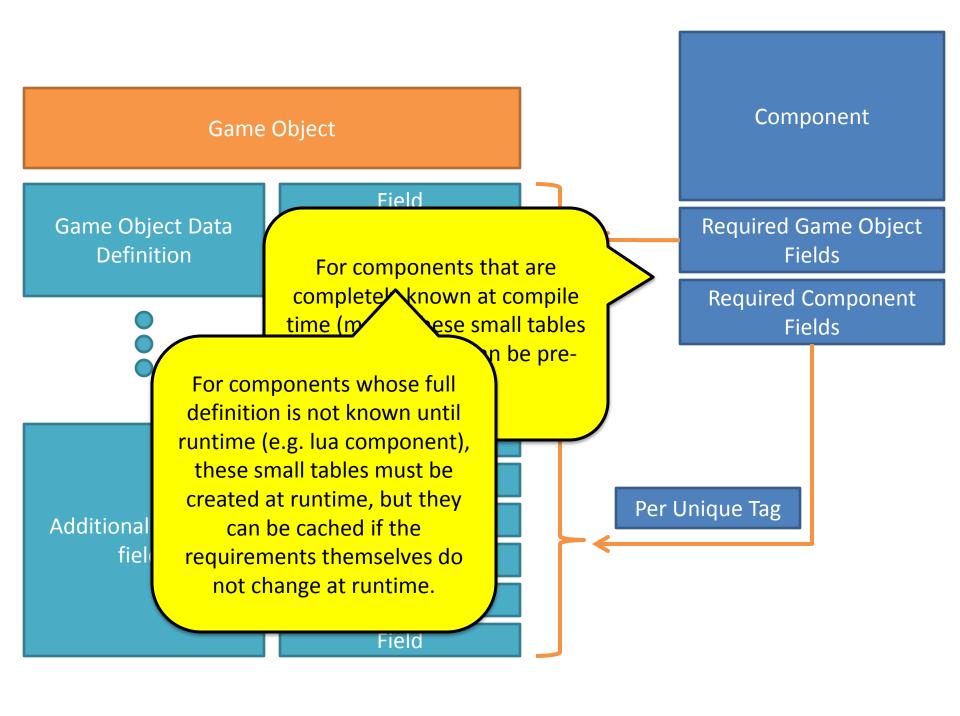


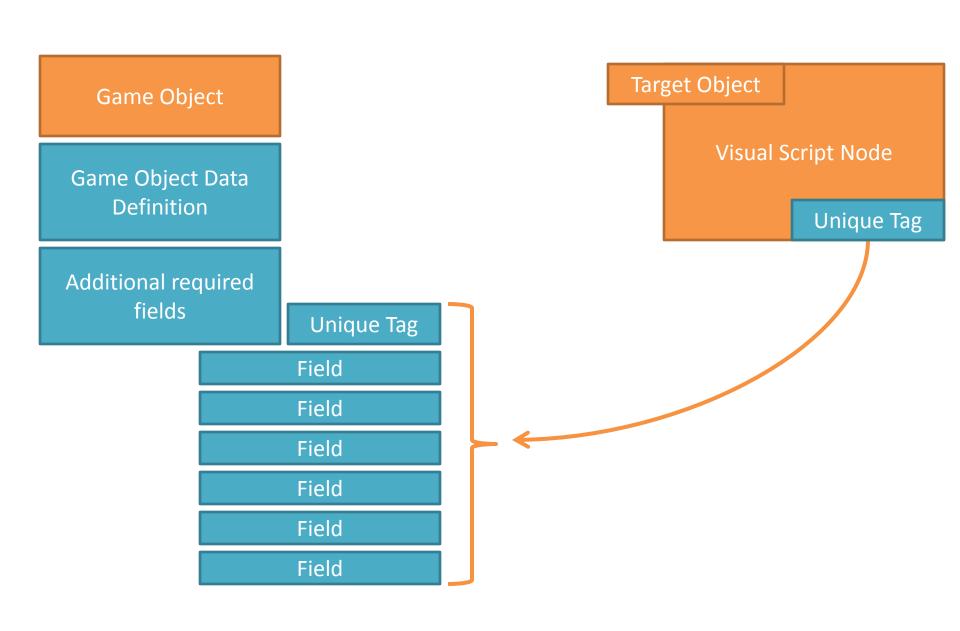




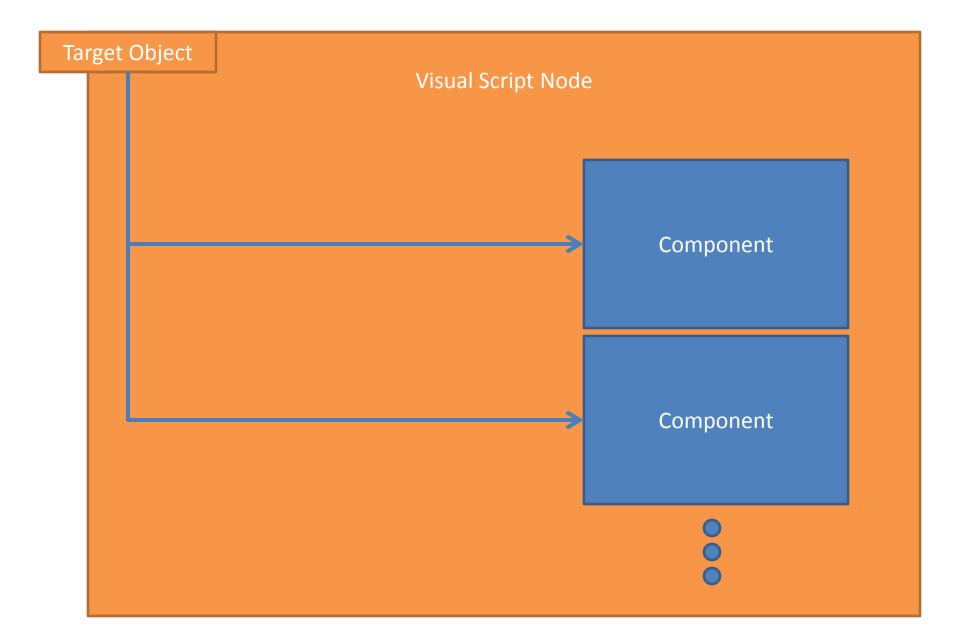


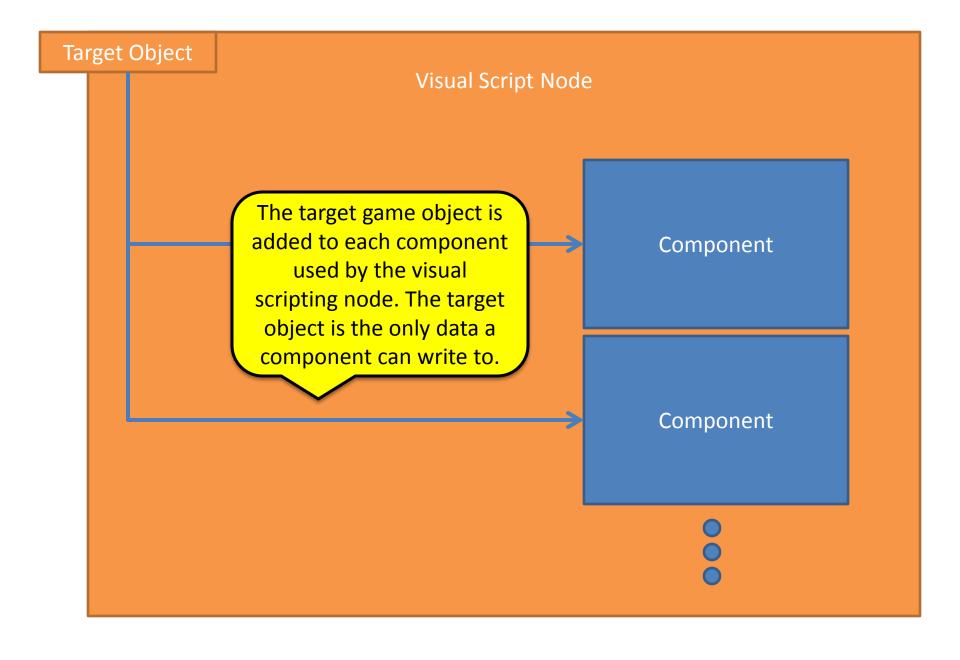


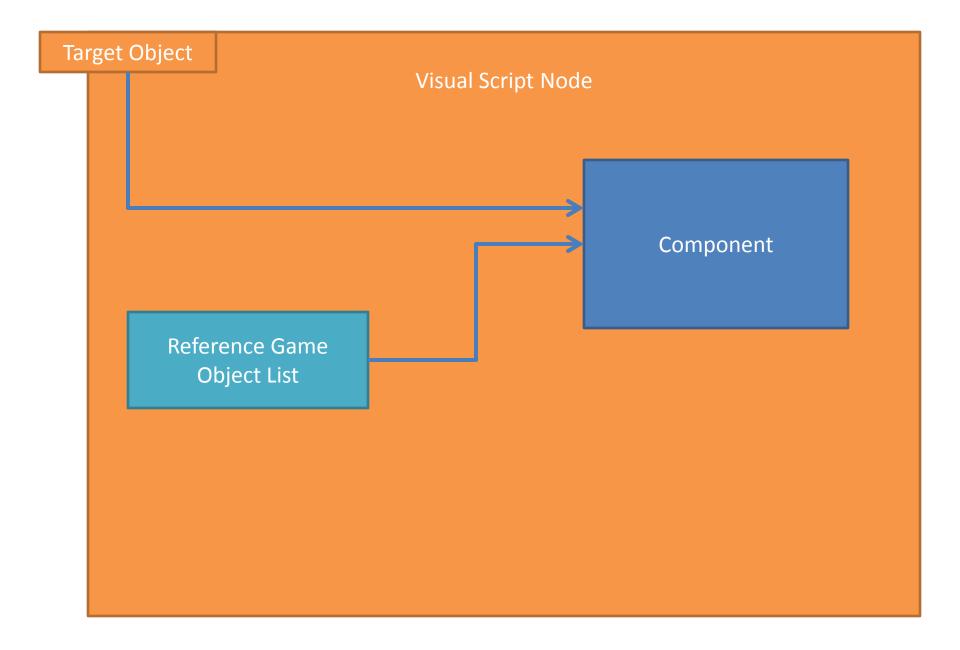


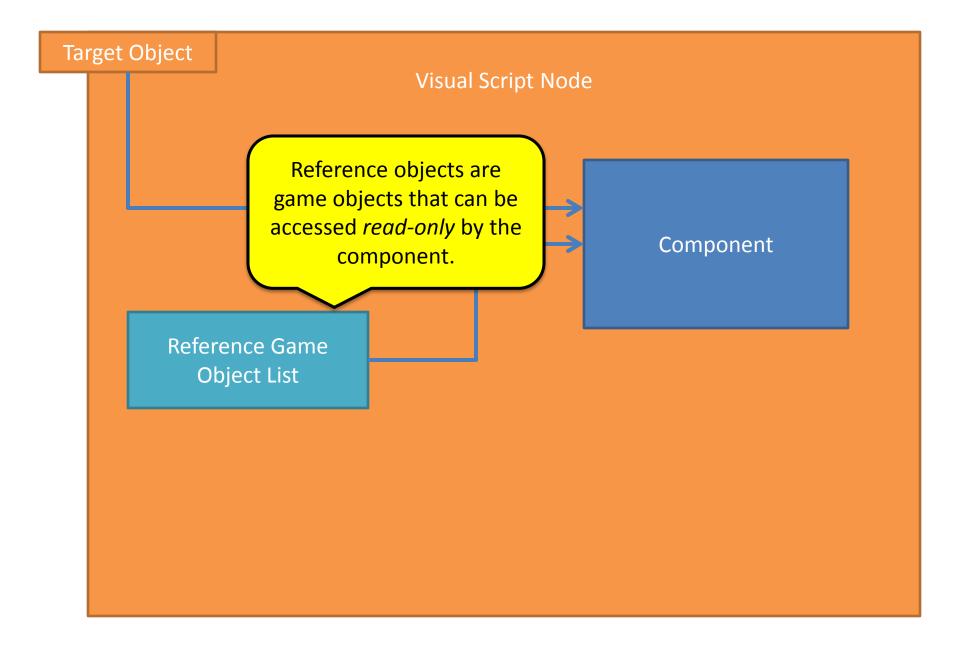


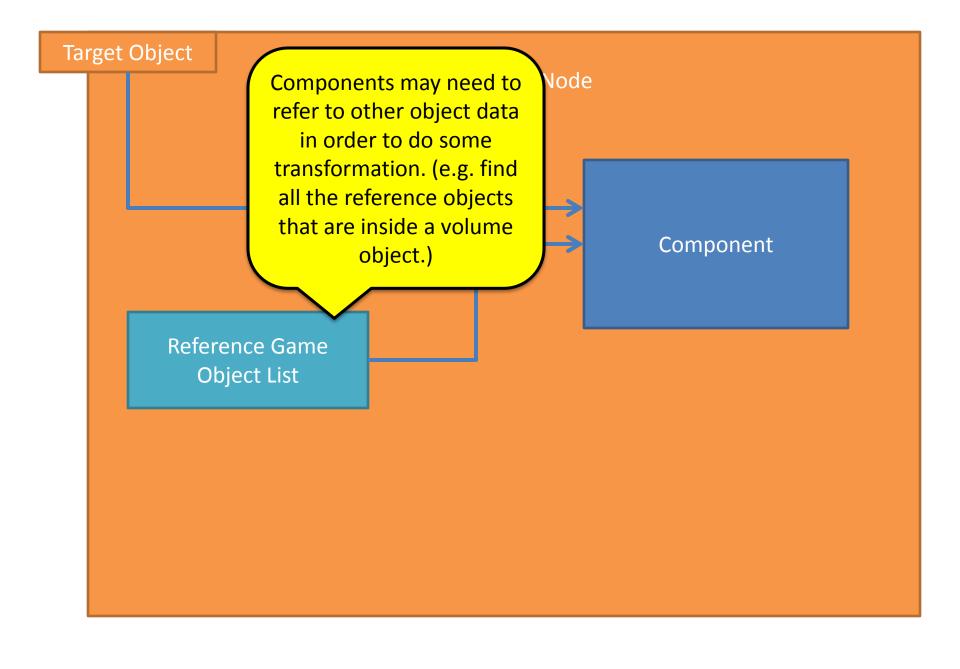
The visual script node gets the list of additional required Target Object Game Object fields from each component and tells the target game Visual Script Node object to add these fields to Game Object Data its data using the unique tag Definition of the visual script node. Unique Tag Additional required fields Unique Tag Field Field Field Field Field Field

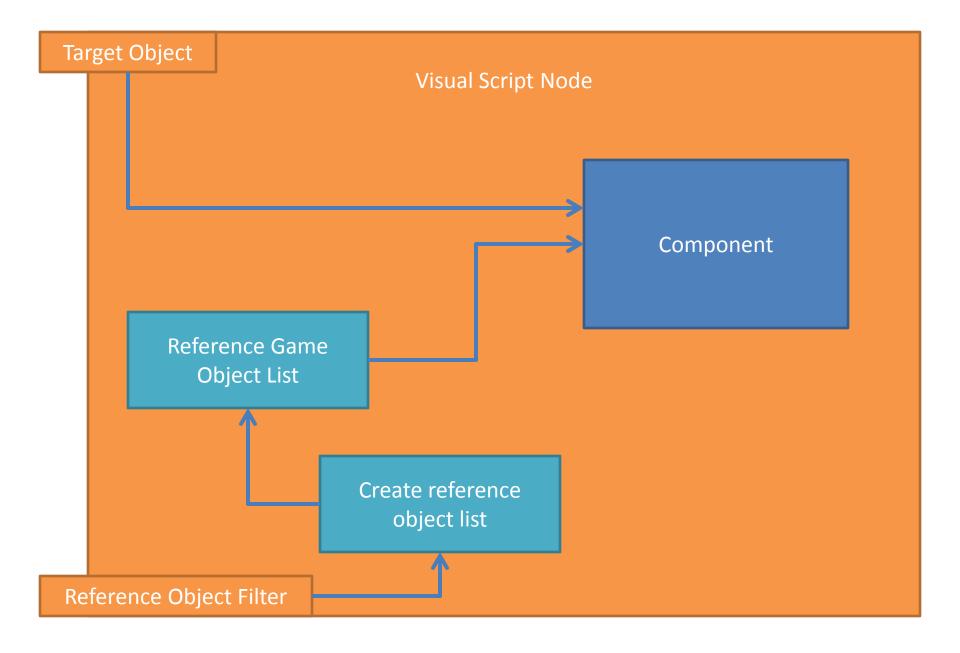


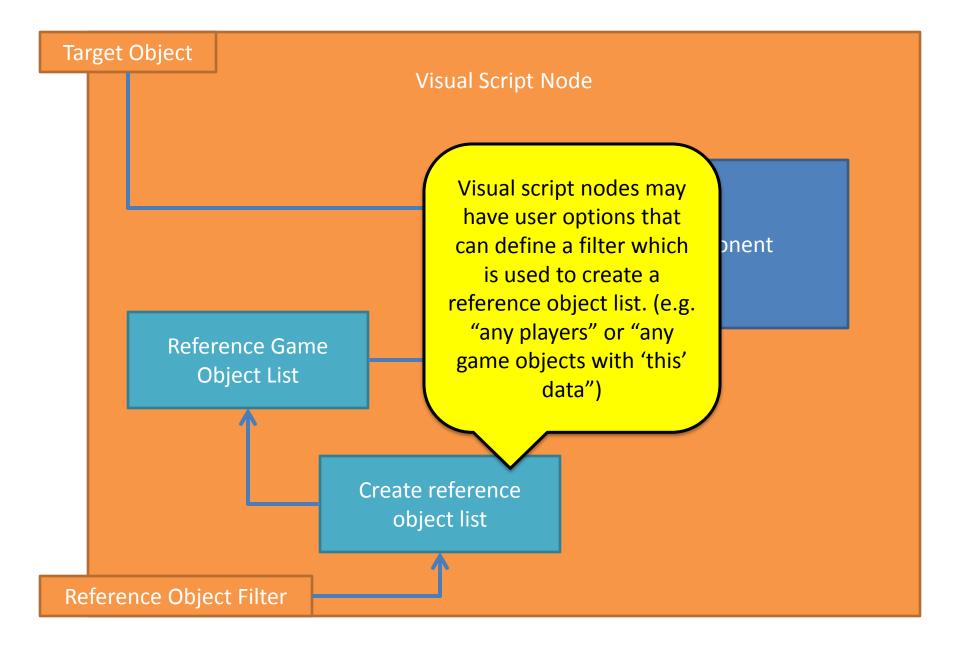


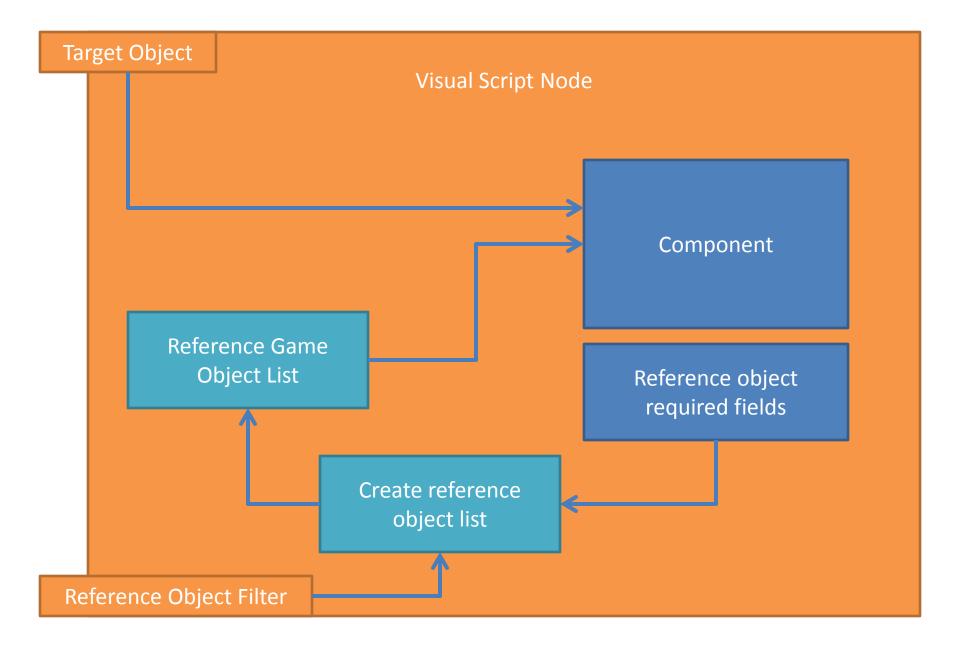


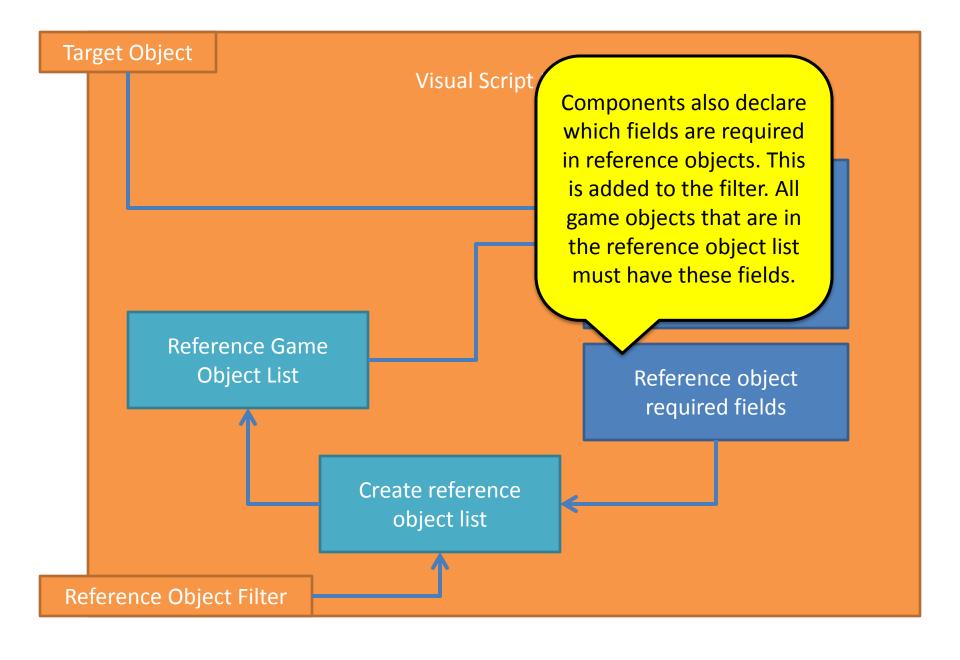


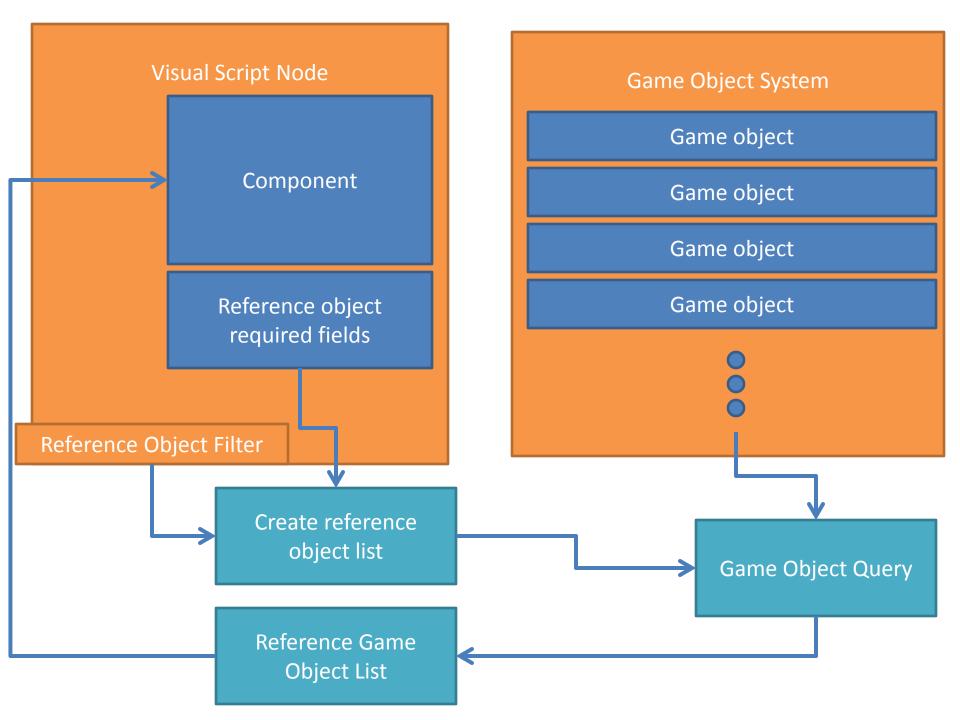


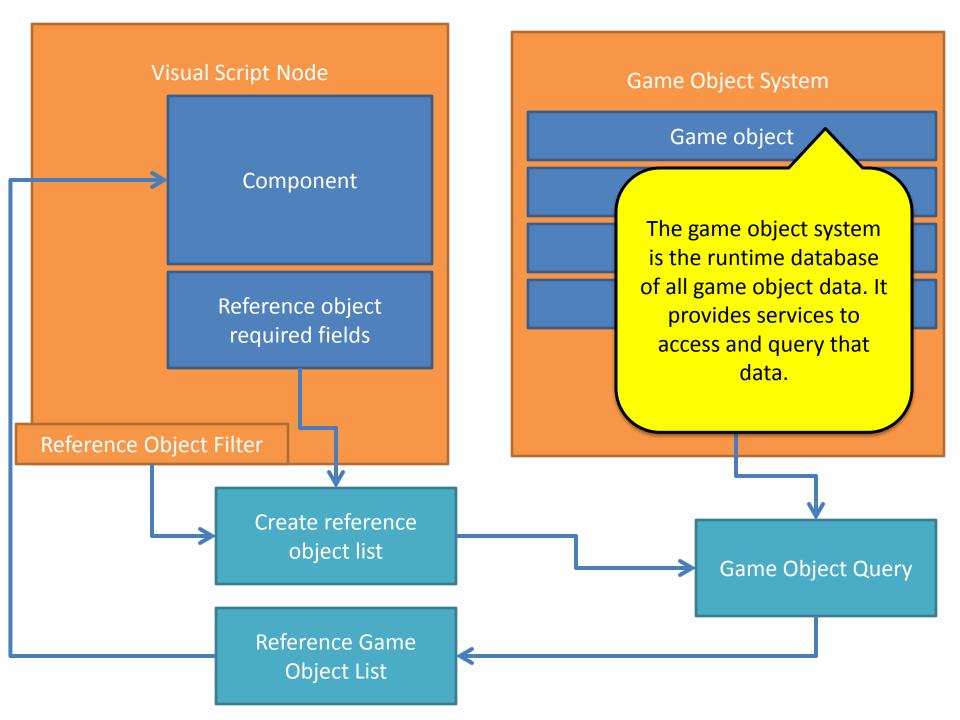


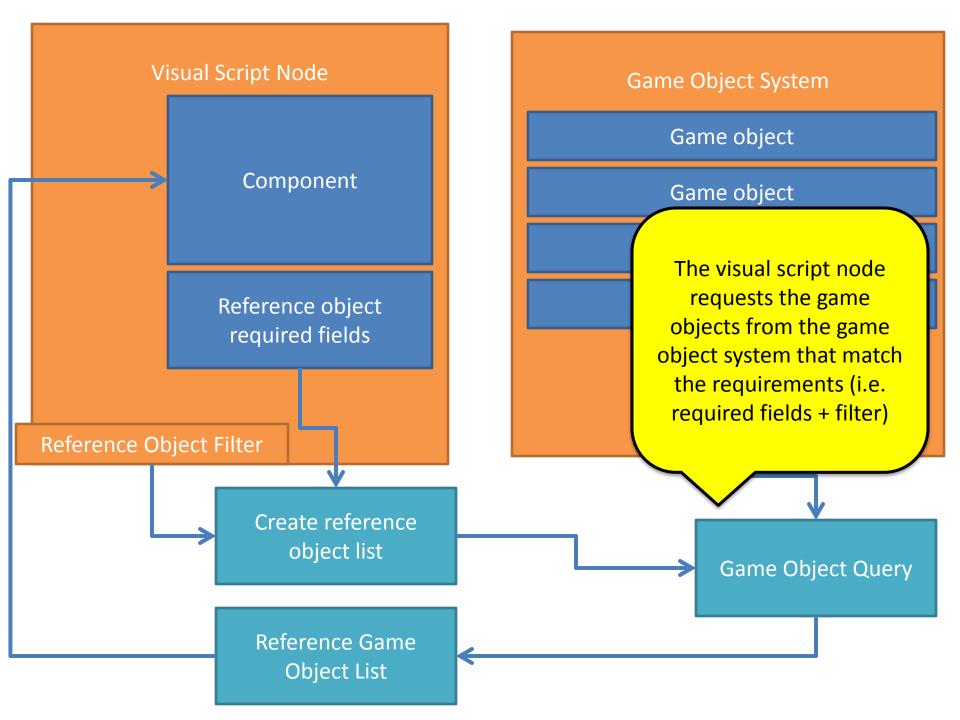


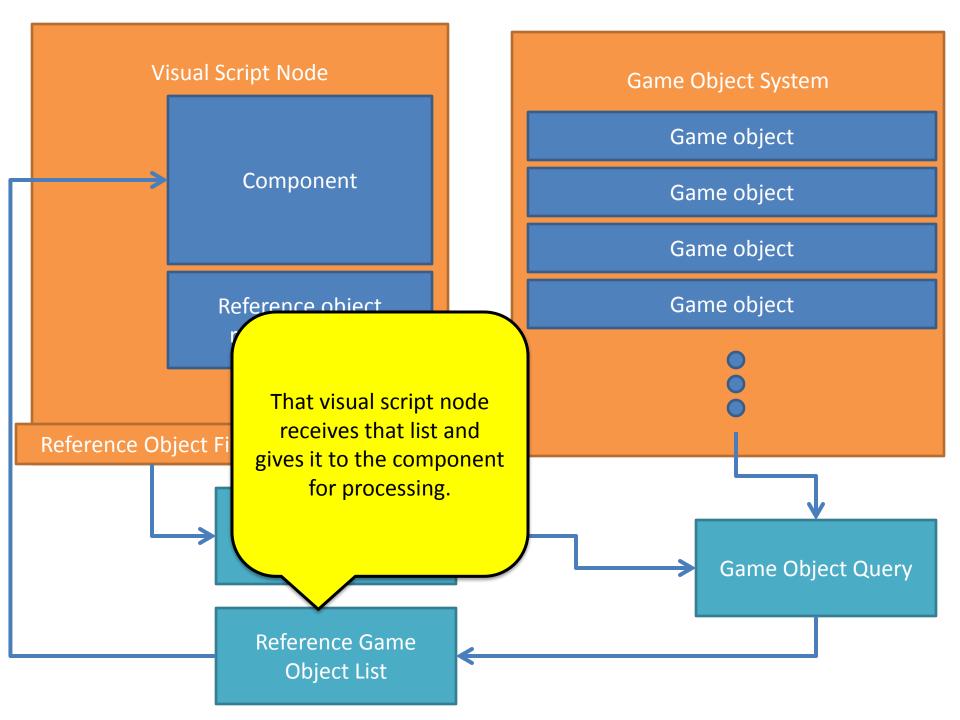


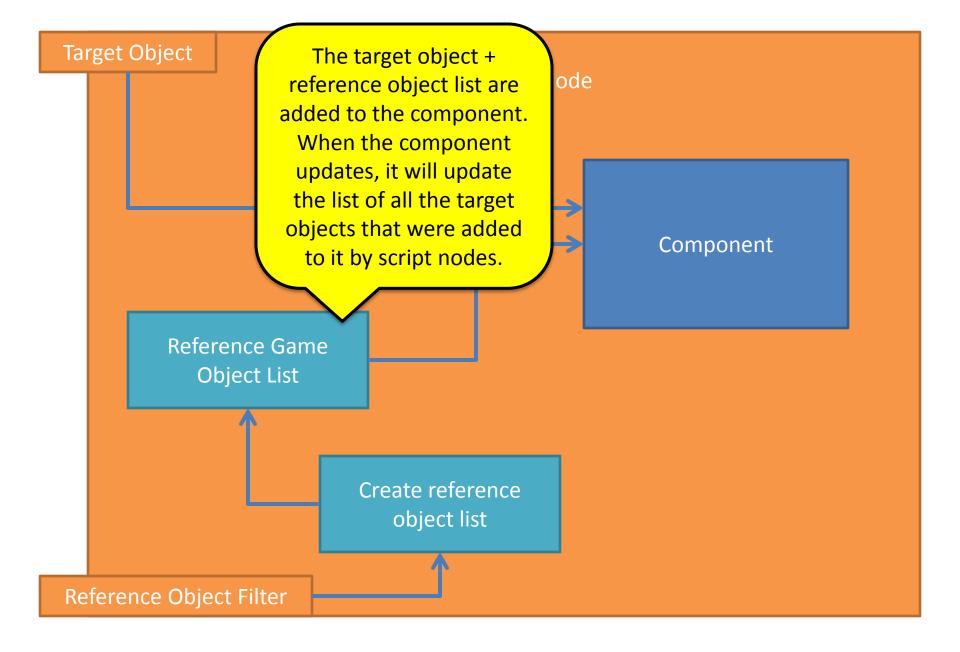


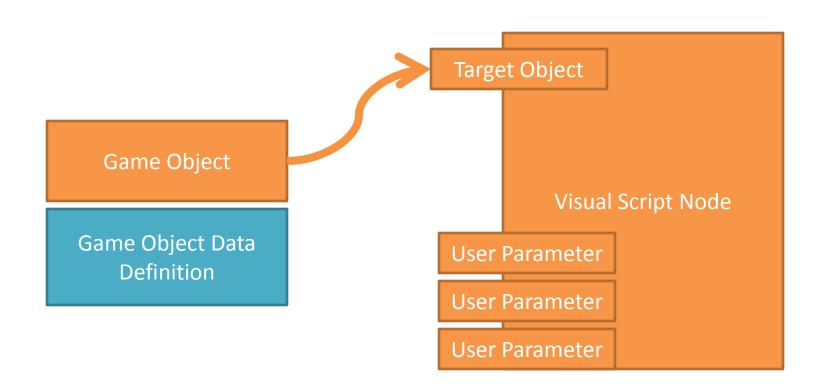


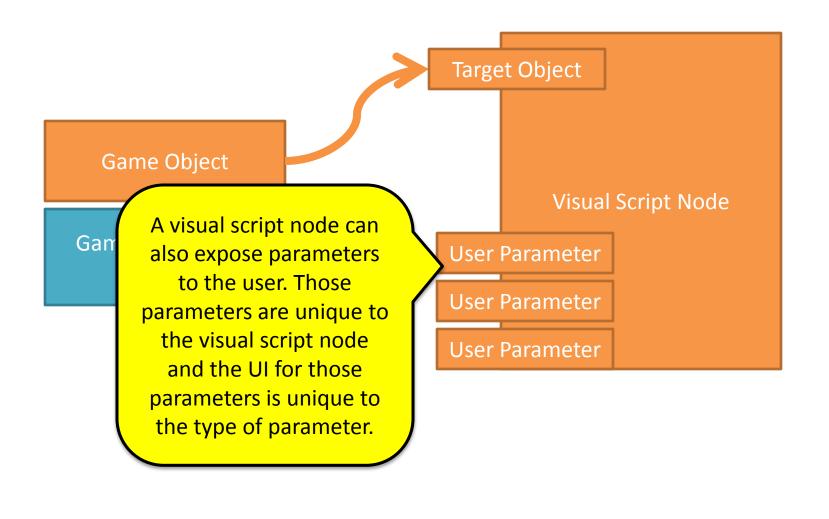


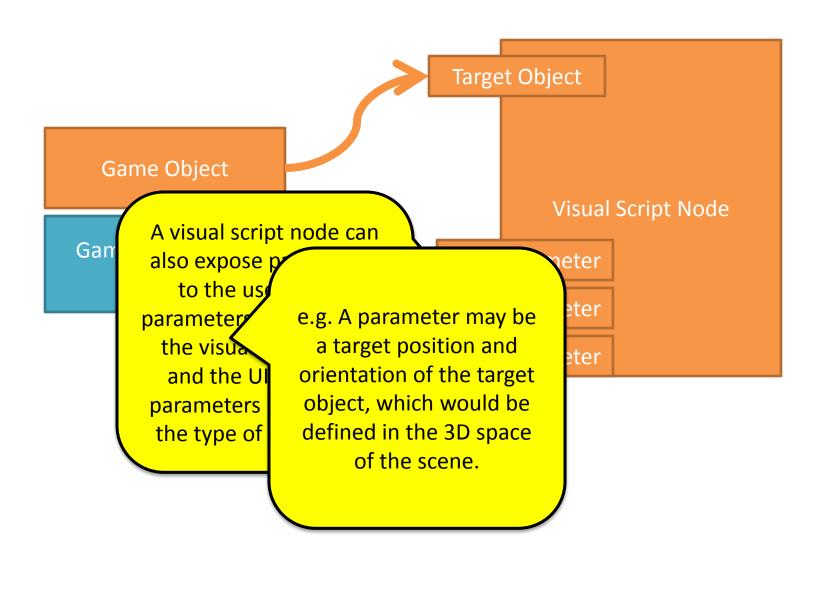


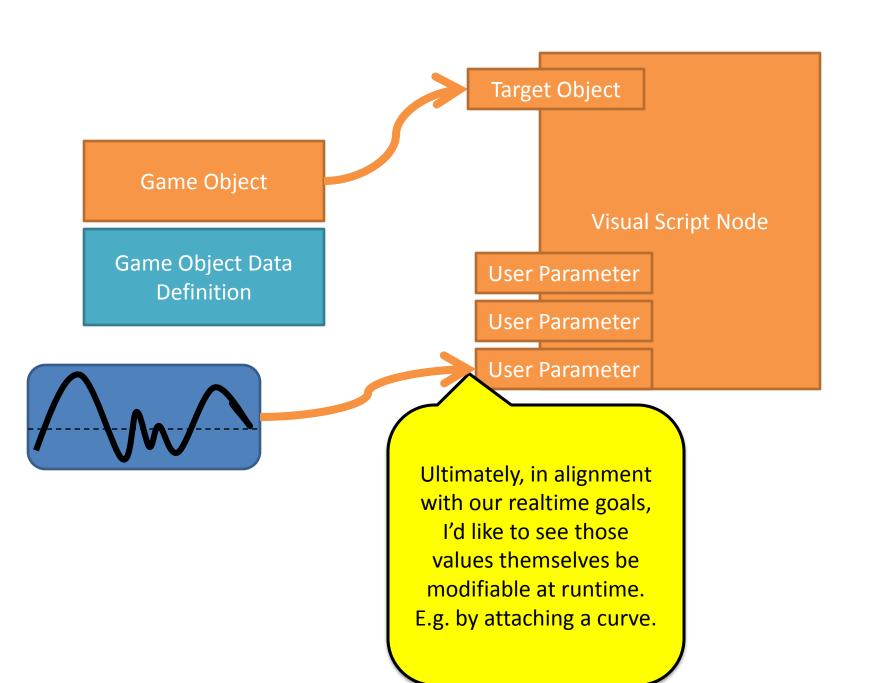


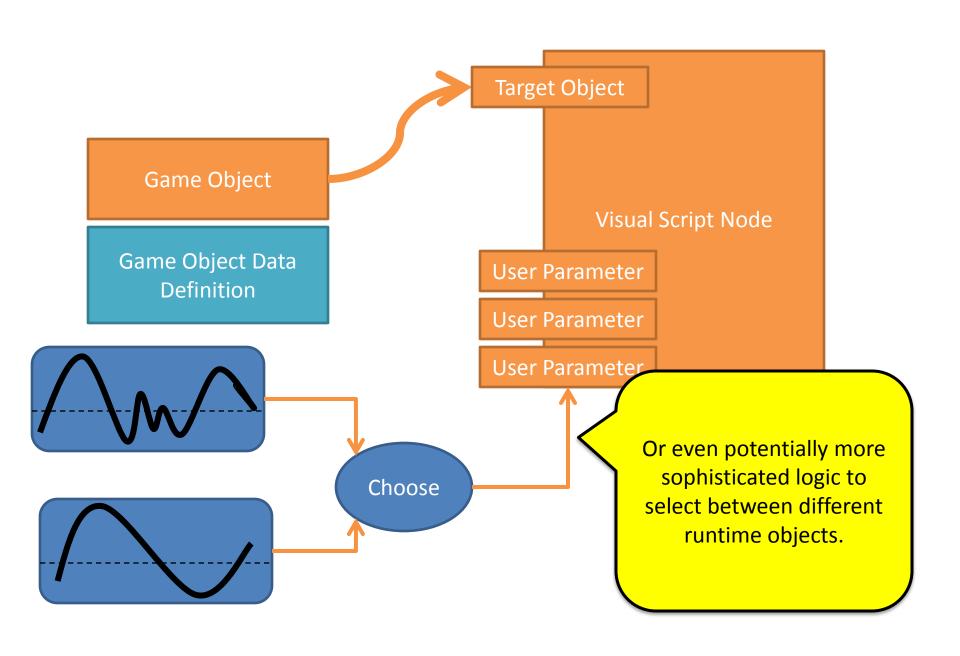


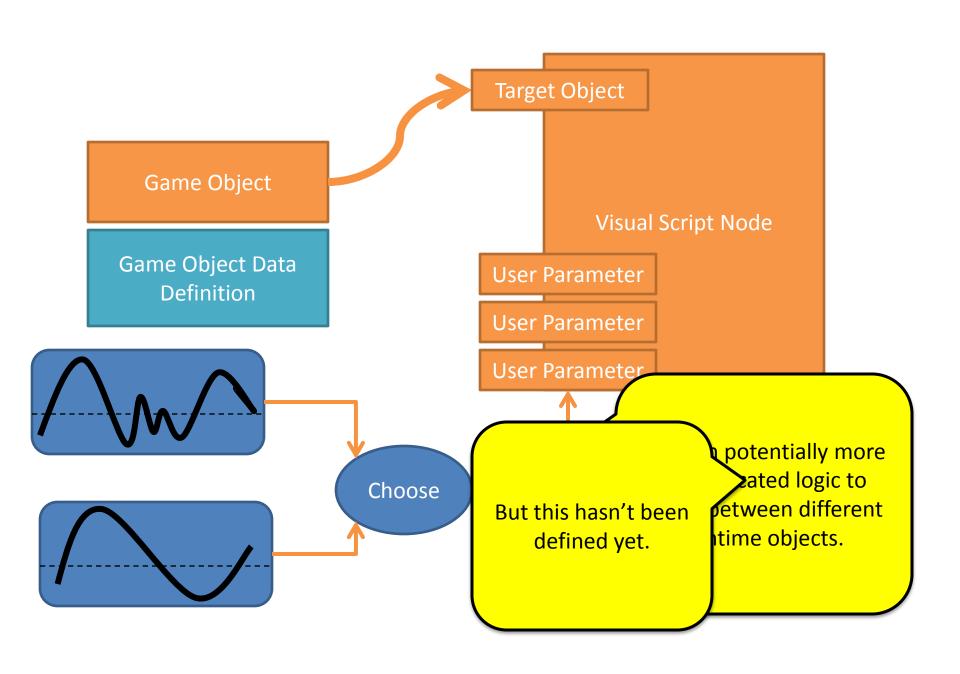


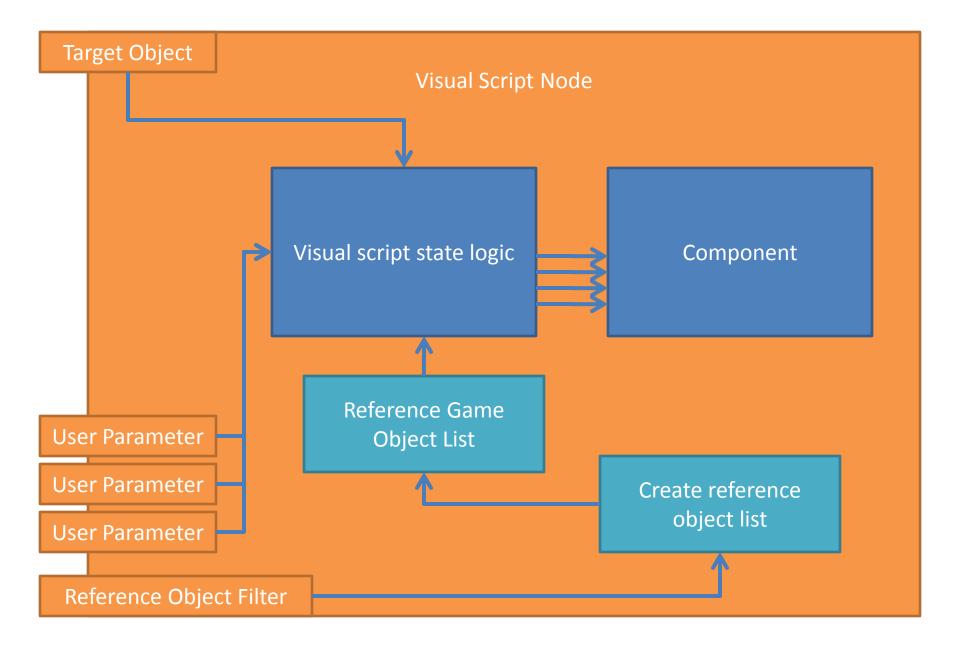


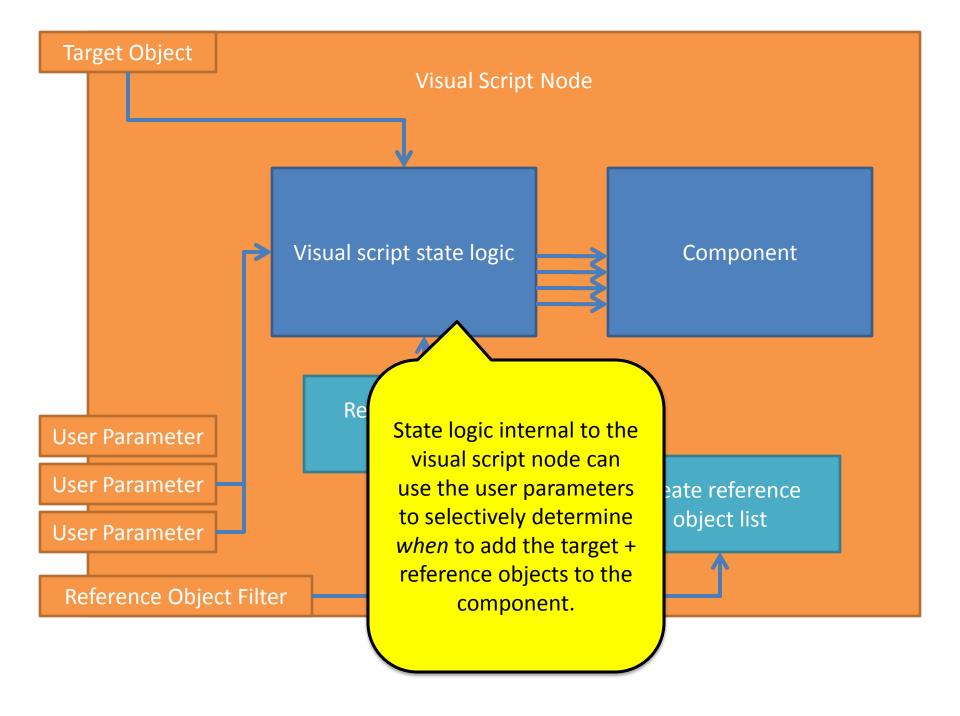


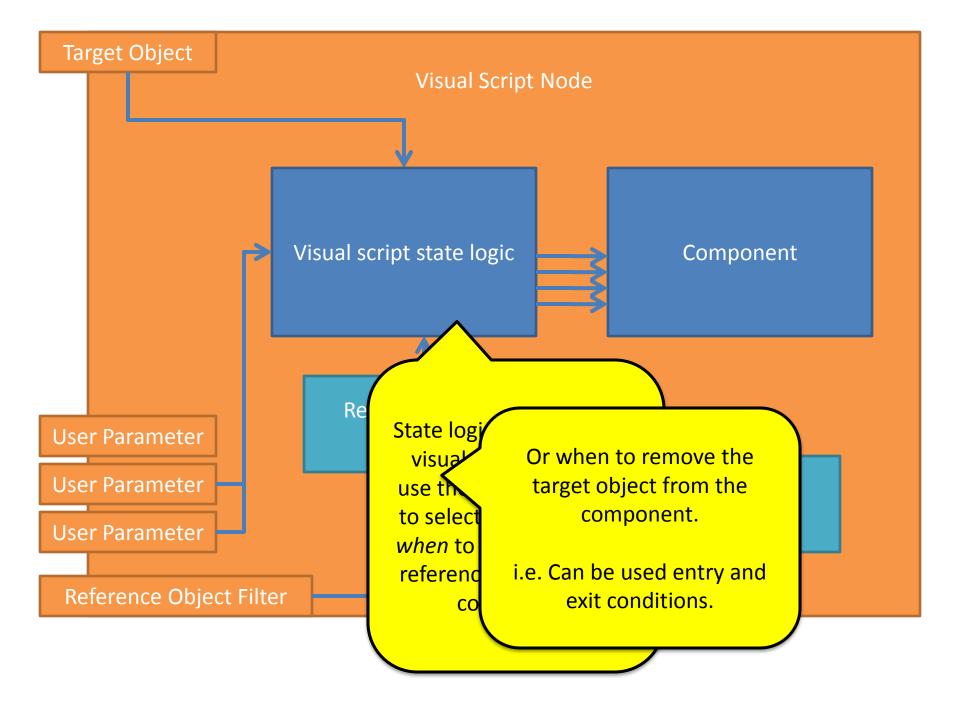


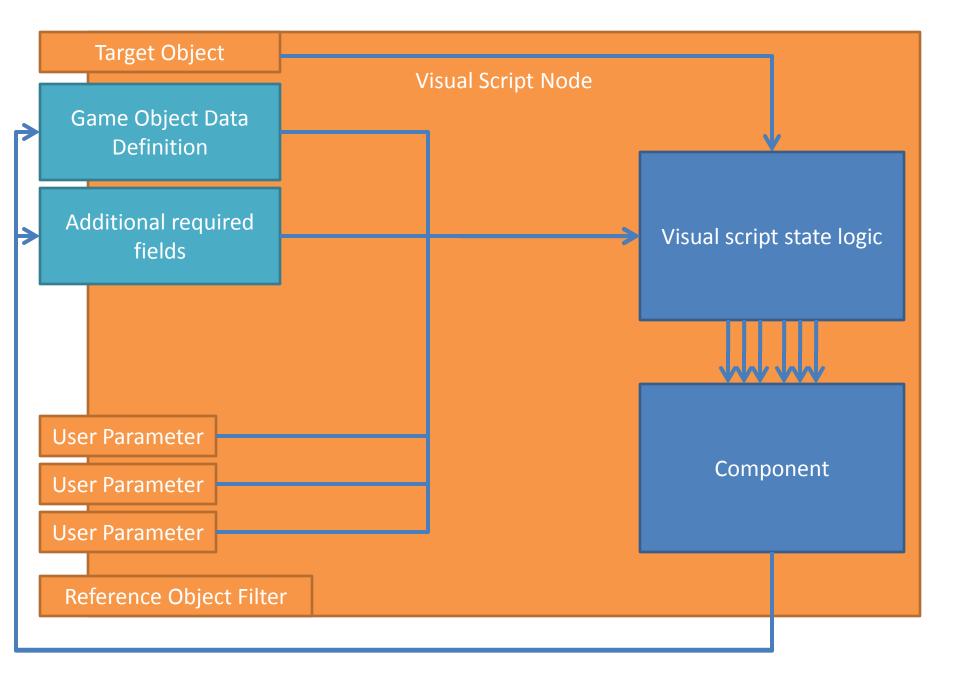


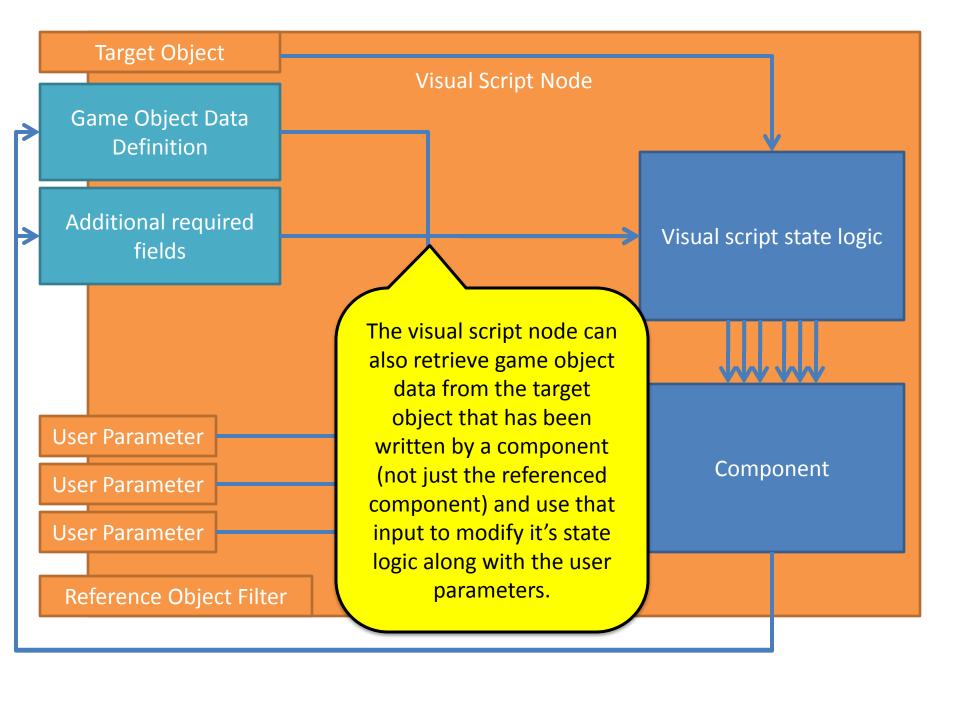


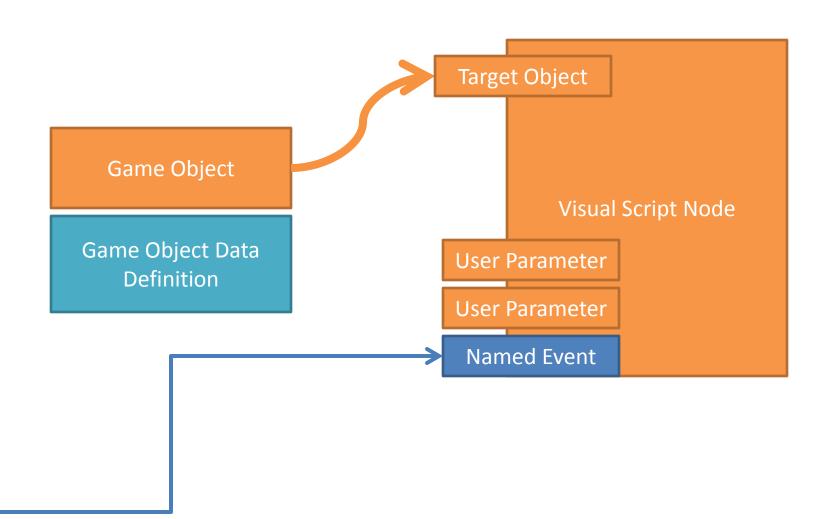


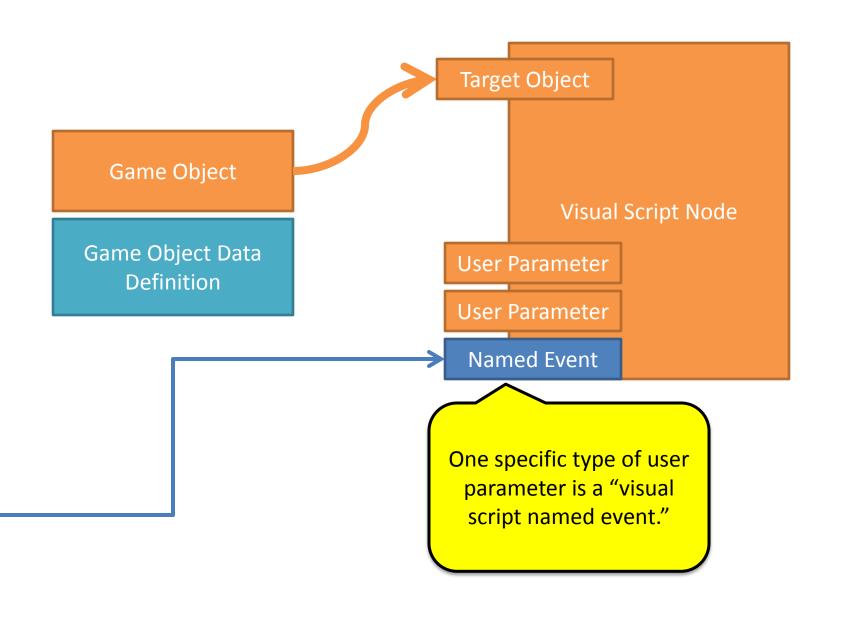


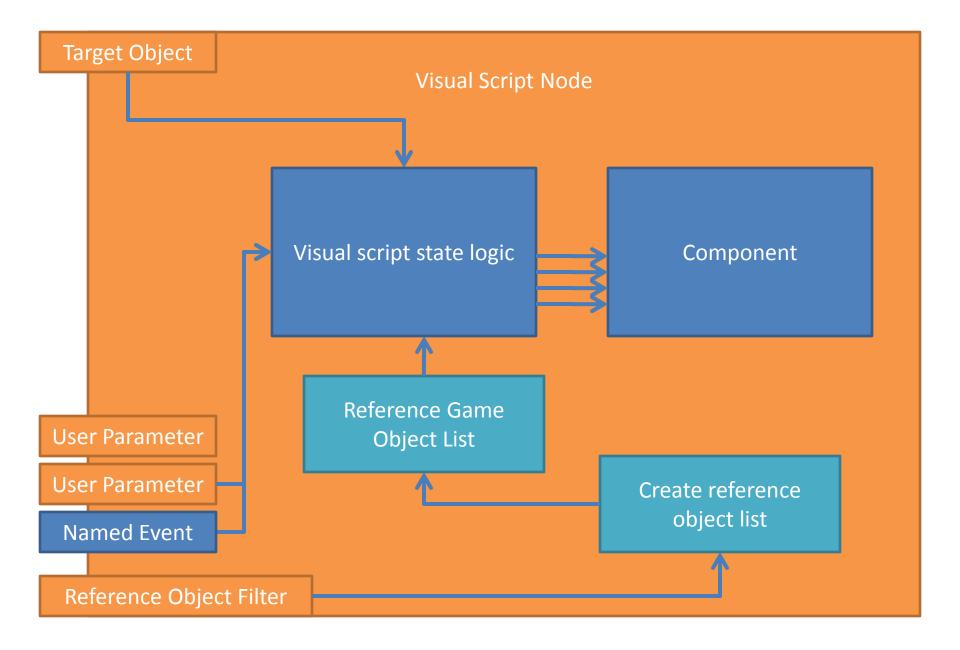


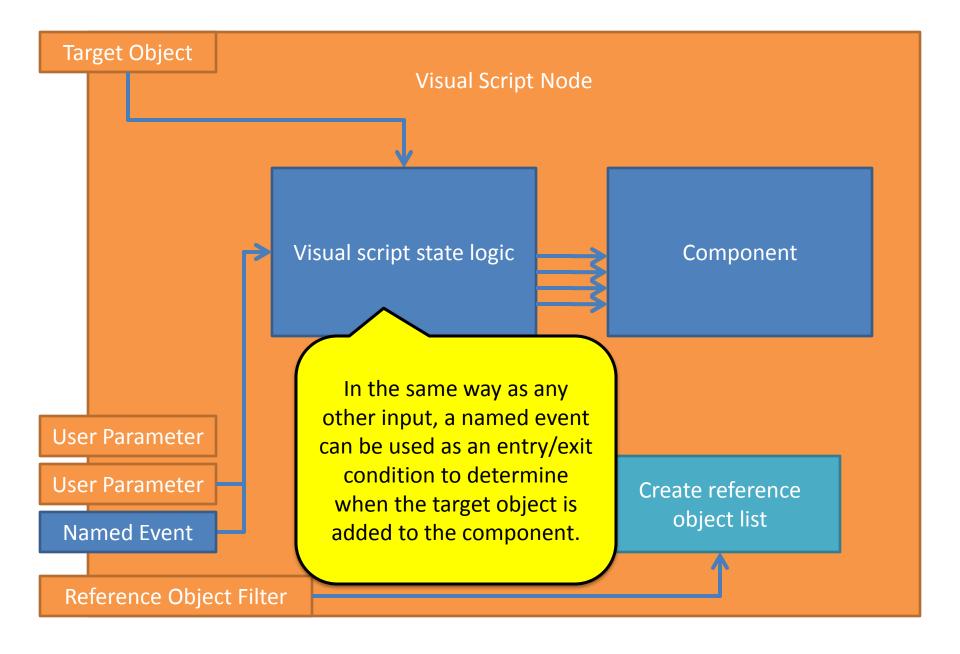












Active visual script nodes

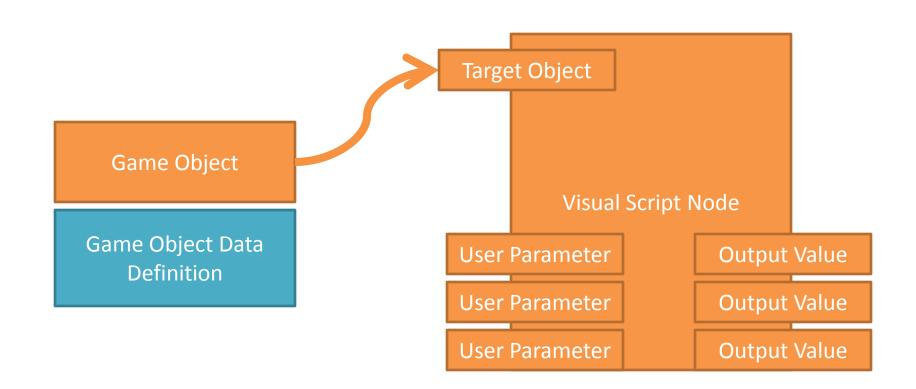
Visual script node

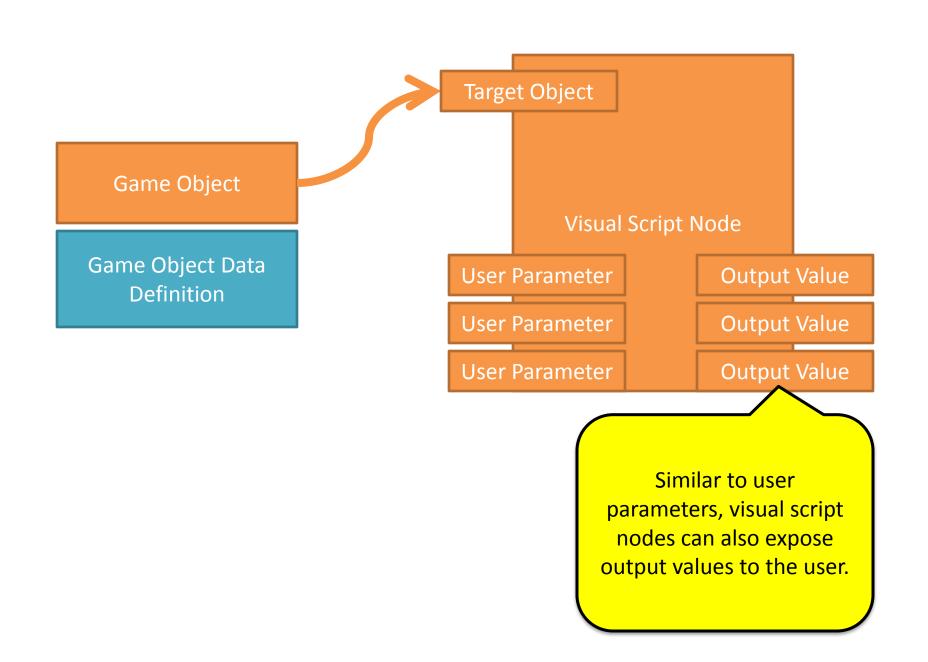
Inactive visual script nodes

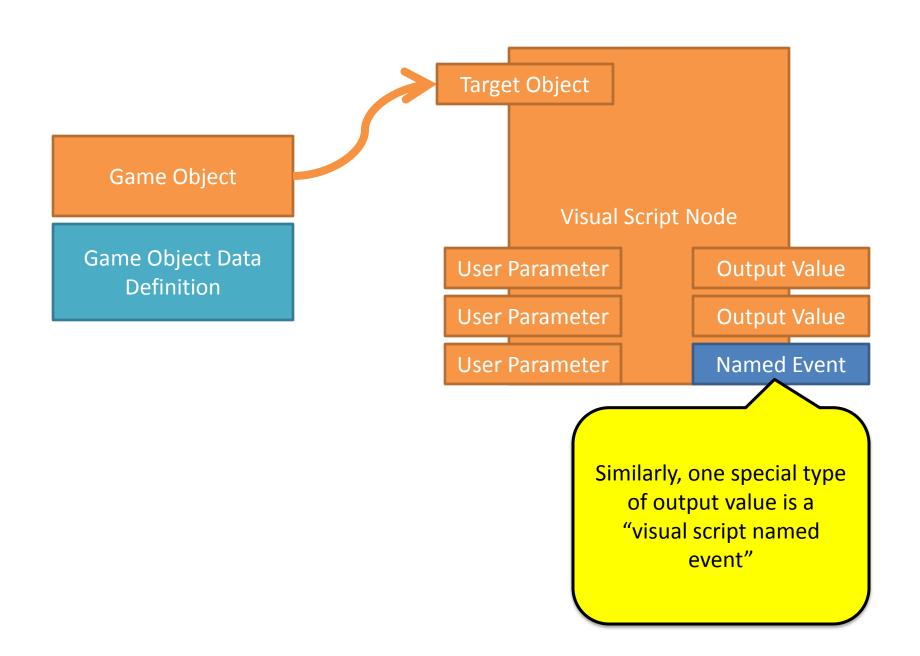
Visual script node

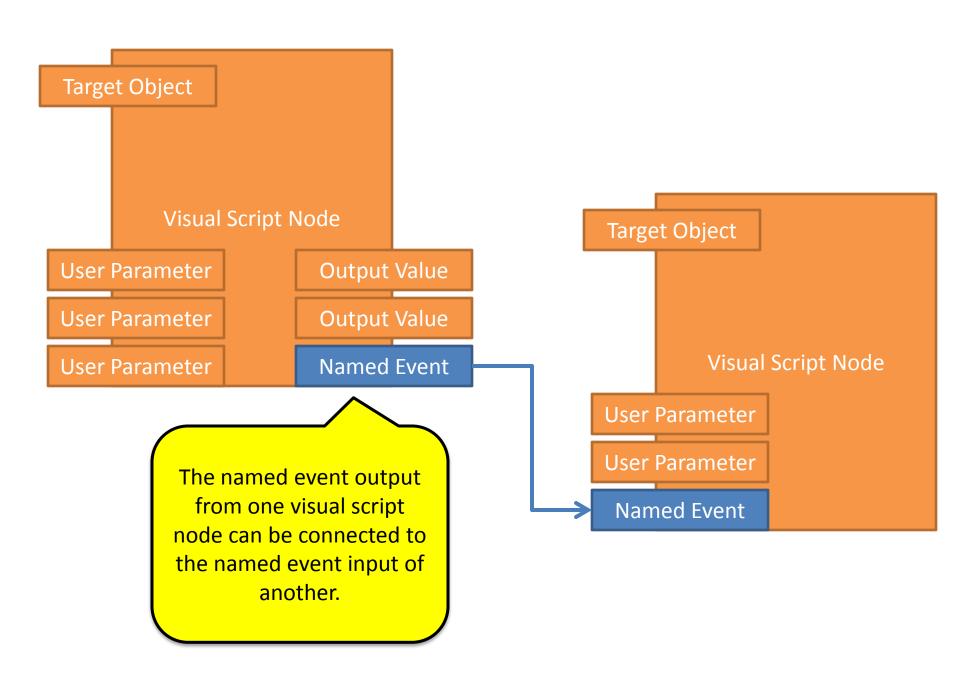
Visual script nodes using named events as an entry condition is presumed (theoretically) to be the most common case.

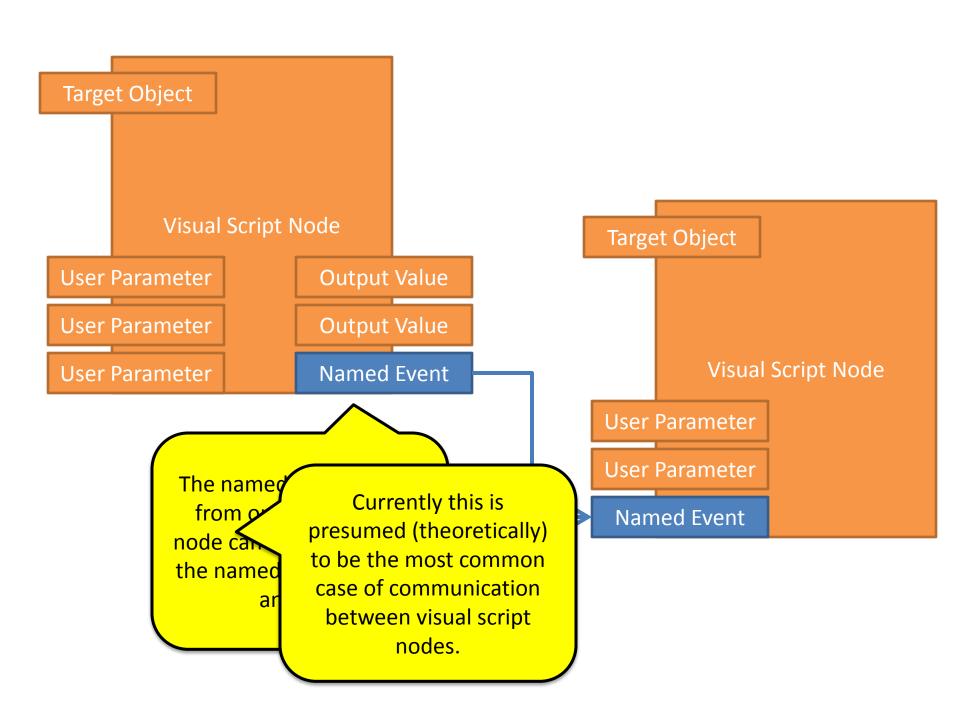
So as an optimization, two lists are kept in the visual scripting system. Inactive nodes have not received the events that signal their entry condition yet. Only active nodes are processed.

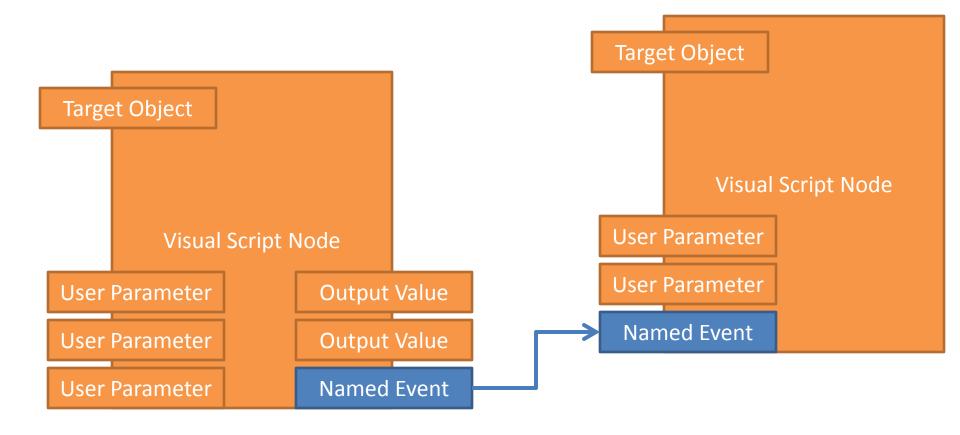












Dispatch Table		
Event	Message	Target
Event	Message	Target
Event	Message	Target

