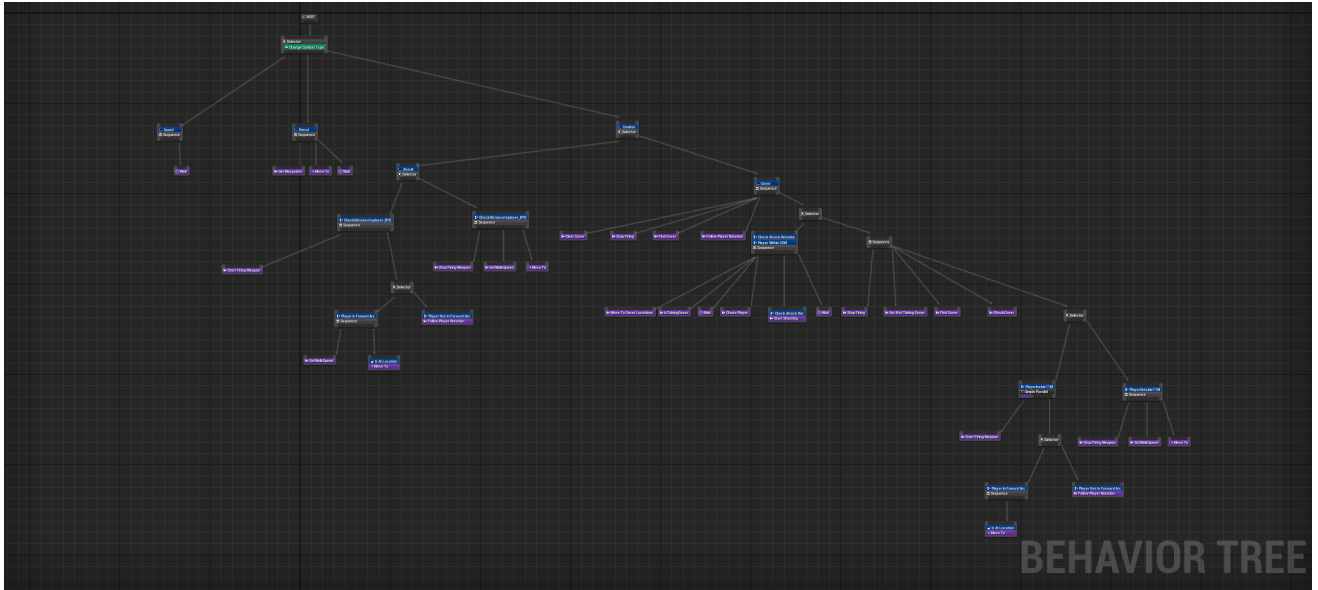


# AI in UE5

# AIController

# BehaviorTree

Behavior Tree asset is used to execute branches containing logic, to determine which branches should be executed



# blackboard

the Behavior Tree relies on another asset called a **Blackboard** which serves as the "brain" for a Behavior Tree.

The Blackboard contains several user-defined **Keys** that hold information used by the Behavior Tree to make decisions.

# Composite

## Selector

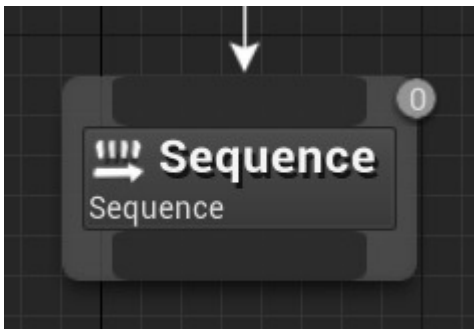
Executes branches from left-to-right and is typically used to select between subtrees. Selectors stop moving between

subtrees when they find a subtree they successfully execute.]



## Sequence

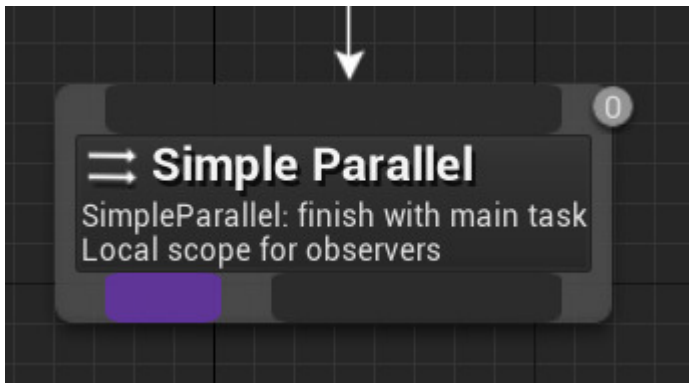
Executes branches from left-to-right and is more commonly used to execute a series of children in order. Unlike Selectors, the Sequence continues to execute its children until it reaches a node that fails.



## Simple Parallel

Simple Parallel has two "connections". The first one is the Main Task, and it can only be assigned a Task node (meaning no Composites). The second connection (the Background Branch) is the activity that's supposed to be executed while the main Task is still running. Depending on the properties, the Simple Parallel may finish as soon as the Main Task finishes, or wait for the Background Branch to

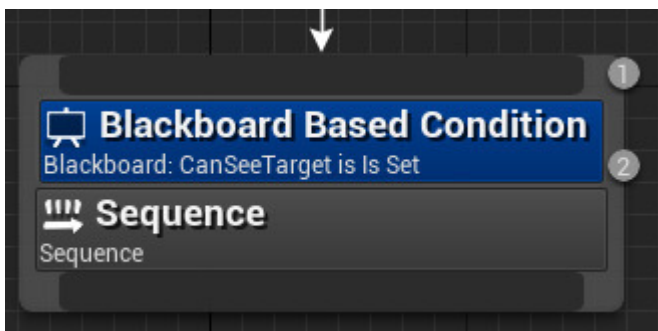
finish as well.



## Decorator

**Decorator**, also known as conditionals in other Behavior Tree systems, are attached to either a Composite or a Task node and define whether or not a branch in the tree, or even a single node, can be executed.

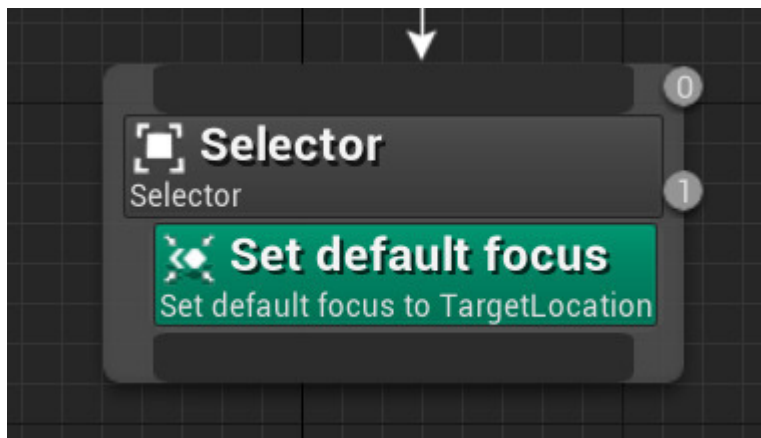
Allow or block the flow into the branch or node



## Services

attach to Composite or Task nodes and will execute at their defined frequency as long as their branch is being executed. These are often used to make checks and to update the Blackboard. These take the place of traditional Parallel nodes in other Behavior Tree systems.

定期选择哪一个分支执行



## AITask

