

Simple man: State machine [Download](#)

A state machine is a design pattern that helps to model the behavior of an object by separating it into multiple states and transitions between these states. This framework provides methods to add, remove, and switch between states.

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Dependencies

- [Simple Man - Utilities](#)
- [Simple Man - AsyncOperations](#)

How to install plugin?

Open installer by the click on Tools -> Simple Man -> Main Installer -> [Plugins' name] -> Click 'Install' button. If you don't have one or more of the plugins this plugin depends on, you must install them first.

Introduction:

The PureStateMachine class is a C# class that implements the IStateMachineSwitchStatesAccess interface and provides an implementation for state machine operations like adding, removing and switching between states.

Properties

Property name	Description
IsRunning	A boolean property that indicates if the state machine is currently running
PrintLogs	A boolean property that indicates if logs should be printed
IsTickEnabled	A boolean property that indicates if the tick is enabled for the state machine
TickDilationInFrames	Calls target method after delay
Name	The name of the state machine
CurrentState	The current state of the state machine

Property name	Description
States	Read-only dictionary of the states in the state machine

Methods

Method name	Description
AddState	Adds a state to the state machine
RemoveState	Removes a state from the state machine
RemoveAllStates	Removes all states from the state machine
SwitchState	Switches the current state to a new state
SwitchState<TState, T0>	Switches the current state to a new state with one parameter
SwitchState<TState, T0, T1>	Switches the current state to a new state with two parameters
SwitchState<TState, T0, T1, T2>	Switches the current state to a new state with three parameters
SwitchState<TState, T0, T1, T2, T3>	Switches the current state to a new state with four parameters

C# Examples

```
// Creating the state machine
PureStateMachine stateMachine = new PureStateMachine("MyStateMachine");

// Adding states to the state machine
stateMachine.AddState(new MyState());

// Switching between states
stateMachine.SwitchState<MyState>();

// Switching to state with float parameter
stateMachine.SwitchState<MyState, float>(3.0f);
```