Achievement System User Guide (V 2.0)

Overview

Achievement System is a tool which allows developers to easily create and manage in-game achievements.

Itch.io: https://samcarey.itch.io/achievements-system-unity-tool Download: https://assetstore.unity.com/packages/templates/systems/achievement-system-151624 Website: www.samcarey.tech Support: contact@samcarey.tech

Features

- Progress and Goal achievements.
- Intuitive editor window for creating and monitoring achievement values.
- Ability to hide spoiler achievements from the player.
- In-game menu to show the players progress.
- Automatic achievement saving between game loads.
- Customisable progress display frequency.

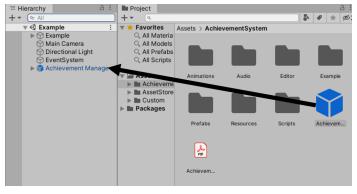
Getting Started

Achievement Manager Prefab

To use the achievement system the starting scene must include an Achievement Manager object.

This can be found at : /Assets/AchievementSystem/

The Achievement Manager is the object responsible for all developer interaction with the system. Note - This item only needs to be included once as it will remain persistent through scene loads.



Achievement Manager Settings Within the first tab, there is a list of settings which can be used to adjust the behaviour of the manager.

 # Achievement Manager (Script) 		0	: -
Settings	_	Achievement List	
Display Time		3	
Number On Screen		3	
Display Achievements		\checkmark	
Spoiler Achievement Message		Hidden	
Stack Location		Bottom Right	•
Show Exact Progress		\checkmark	
Auto Save		\checkmark	
Progress Made Sound		Example_ProgressSound	\odot
Achieved Sound		Example_UnlockSound	\odot
 [1] Progression Example (ProgressionExamp [2] Overlay Example 1 (OverlayExample1) [3] Overlay Example 2 (OverlayExample2) [4] Spoiler Example (SpoilerExample) 	True False False	100 / 100 (100%) 100 / 1000 (10%) 0 / 10 (0%)	4
Manual Save		Reset All States	
🔻 📢 🗹 Audio Source		0	<u>-</u> ⊧ :

Achievement Manager Properties		
Setting	Description	
Display Time	The number of seconds an achievement will display on the screen once unlocked or progress is made.	
Screen Count	The total number of achievements which can be on the screen at any one time.	
Display Achievements	If true , achievement unlocks / progress update notifications will be displayed on the players screen.	
Spoiler Achievement Message.	The message which will be displayed on the UI if an achievement is marked as a spoiler.	
Stack Location	The place on the screen where notifications will be displayed.	
Show Exact Progress	If true , progress notifications will display their exact progress if false it will show the closest bracket. Example - Notification frequency is set to 25 and the current progress is 26. true = Display 26 false = Display 25	
Auto Save	If true , the state of all achievements will be saved without any user input. If false , achievement states must be saved manually by calling SaveAchievementState(). Set to false improve performance.	
Progress Made Sound	The sound which plays when a progress update is displayed to a user. Sounds are only played when Display Achievements is true.	
Achieved Sound	The sound which plays when an achievement is unlocked is displayed to a user. Sounds are only played when Display Achievements is true.	

Achievement Manager List

(0) Goal Example		V X
Key	GoalExample	
Display Name	Goal Example	
Description	An example of a goal achievement	
Locked Icon	GE_Locked_Example	•
Lock Overlay		
Achieved Icon	GE_Unlocked_Example	\odot
Spoiler		
Progression		
+ (1) Progression Example		^ V X
Key	ProgressionExample	
Display Name	Progression Example	
Description	An example of a progression achievement	
Locked Icon Lock Overlay	PE_Locked_Example	0
Achieved Icon	PE_Unlocked_Example	•
Spoiler		
Progression	×	
Progress Goal	100	
Notification Frequency	25	
Progress Suffix	КМ	
Achievement Manager (Script)		0 ;
Settings	Achievement List	_
	Achievenient List	
Show All		
— (0) Goal Example		v x
— (0) Goal Example		V X
(0) Goal Example (1) Progression Example		~ × ×
— (1) Progression Example		^ v x
		<pre></pre>
— (1) Progression Example		^ v x
 (1) Progression Example (2) Overlay Example 1 		^ v x
(1) Progression Example (2) Overlay Example 1 (3) Overlay Example 2 (4) Spoiler Example		∧ ∨ × ∧ ∨ × ∧ ∨ ×
 (1) Progression Example (2) Overlay Example 1 (3) Overlay Example 2 		^ V X ^ V X ^ V X
(1) Progression Example (2) Overlay Example 1 (3) Overlay Example 2 (4) Spoiler Example	Add	∧ ∨ × ∧ ∨ × ∧ ∨ ×
 (1) Progression Example (2) Overlay Example 1 (3) Overlay Example 2 (4) Spoiler Example (5) Completionist Use Final Achievement 	✓	∧ ∨ × ∧ ∨ × ∧ ∨ ×
 (1) Progression Example (2) Overlay Example 1 (3) Overlay Example 2 (4) Spoiler Example (5) Completionist Use Final Achievement 		∧ ∨ × ∧ ∨ × ∧ ∨ ×

The second tab is where the list of achievements that the player can earn is stored. To create a new achievement the add button can be clicked. The **^**,**v** and **×** button can be used to rearrange/remove elements from the list. Additionally, the + and - buttons on the left of each element will show and hide the achievement to increase visibility.

Achievement Manager List Properties		
Setting	Description	
Кеу	A unique key used to identify an achievement in code.	
Display Name	The name of the achievement which the player will see in-game.	
Description	A short description which tells the player how to earn the achievement.	
Lock and Unlocked Icons	The icon which will be displayed when the achievement is locked and unlocked. If Lock overlay is set to true the lock icon will be overlayed on top of the Unlocked version. See in example the scene.	
Spoiler	Treat the current achievement as a spoiler for the game. Hidden from player until unlocked.	
Progression	If true this achievement will count to a certain amount before unlocking. E.g. race a total of 500 km, collect 10 coins or reach a high score of 25.	
Progress Goal	The goal which must be reached for the achievement to unlock. Used only for progression based achievements.	
Notification Frequency	The rate that progress updates will be displayed on the screen e.g. Progress goal = 100 and Notification Frequency = 25. In this example, the progress will be displayed at 25,50,75 and 100.	
ProgressSuffix	A string which will be displayed with a progress achievement e.g. \$, KM, Miles etc	

Final Achievement

At the bottom of the achievement list, there is a section where a final game achievement can be defined. This achievement will automatically be unlocked once all others have been completed. Check the checkbox and type in the key of the achievement you wish to use. The final achievement will be marked with a flag icon.

Ingame Achievement Viewer

The in-game viewer will show the player a list of achievements, their progress and allow them to filter them based on if they are achieved or not.

1/4	Complete (25%)
GE	Goal Example An example of a goal achievement (Achieved)
PE	Progression An example of a progression achievement 90 / 100
	OverlayExample1 Texture overlay when locked (Locked)
Achieved Unachieved	
All	✓ Filter

Opening with a keyboard

The settings for the in-game viewer can be found on the Achievement Manager prefab. You can set the key that will be used to open the in-game menu here. If you do not want the menu to open with any key press set "Open Menu Key" to "None".

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	Script	🖬 AchievenmentListIngame	Ģ	ē
	Open Menu Key	Tab	÷)

Opening with a UI Event/Button

Simply create an event on a button. Drag in the Achievement Manager and select

AchievenmentListView.ToggleWindow. This will toggle the window state. Alternatively OpenWindow() or CloseWindow() can be used explicitly.

On Click ()		
Runtime Only 👻	AchievenmentListIngame.ToggleWindow	•
Achievement Manager (Act 💿		

Unlocking / Adding progress

Through Code

To unlock/add progress to achievements there are several functions which can be called. All unlocking/progress functions have two options of access including by **Index** or **Key**. All functions are called by accessing the achievement manager singleton as seen below.



Using The UI

Unlocking and setting achievement progress through the UI is fairly simple, however, it does require some additional code as UnityEvents can only take one parameter.

Examples of how this can be achieved can be found with the example scene and the script file "ExampleScript".

Function Reference

The game manager includes 9 (+3 overloads) public functions which can be called to interact with the system.

Miscellaneous

public bool AchievementExists(string Key){}
public bool AchievementExists(int Index){}

Returns true if an achievement is found in the list.

public int GetAchievedCount(){}

Returns the total number of achievements which have been unlocked.

public float GetAchievedPercentage(){}

Returns the current percentage of unlocked achievements.

Unlock and Progress

public void Unlock(string Key){}
public void Unlock(int Index){}

Fully unlocks a progression or goal achievement.

public void SetAchievementProgress(string Key, float Progress){}
public void SetAchievementProgress(int Index, float Progress){}

Set the progress of an achievement to a specific value.

public void AddAchievementProgress(string Key, float Progress){}
public void AddAchievementProgress(int Index, float Progress){}

Adds the input amount of progress to an achievement. Clamps achievement progress to its max value.

Saving and loading

public void SaveAchievementState(){}

Saves progress and achieved states to player prefs. Used to allow reload of data between game loads.

This function is automatically called if the **Auto Save** setting is set to true.

public void LoadAchievementState(){}

Loads all progress and achievement states from player prefs. This function is automatically called if the **Auto Load** setting is set to true.

public void ResetAchievementState(){}

Clears all saved progress and achieved states.