

b mod creation How-To, documentation and reference



https://www.youtube.com/watch?v=QfyM31rvpPo

Required (exactly): Unity 2022.1.6f1

Project Type: 3D built-in renderer

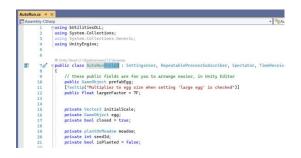
Import Package "b-mod-tools.unitypackage" from the game folder in the Steam Library

Export by choosing "Tools -> ModTool -> Export Mod" in the menubar and giving a name and a location

Entry Point: Rename "Assets/My/ModSupport/AutoRunScript" to "AutoRun",



afterwards open it and change the class name equally.



Rename "Assets/My/ModSupport/AutoRunGameObject" to "AutoRun" as well.

The "AutoRun" prefab is the only prefab which gets instantiated when the mod loaded and its attached "AutoRun" script run.

Ensue all your work from "AutoRun". The scene is not being exported to the mod but you can use it to test. New prefabs and scripts of yours get exported to the mod.

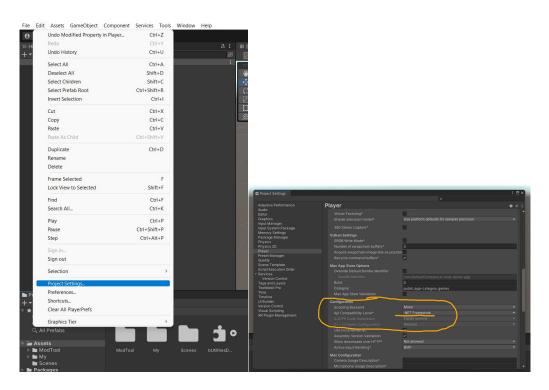
The "AutoRun" script itself contains all major interoperability functionality and relevant considerations as a working demo.

You are free with the exception of System.IO and System.Reflection.

Following functionality is available additionally:

requires "using bUtilitiesDLL;"

Helper	page 3
TimeTaker	page 4
BLift	page 5
plantOnMeadow	page 6
Settings	page 8
FormContinuer	page 10



Change the Api Compatibility Level to ".NET Framework" in the Project Settings before you let export your mod !

Helper

name	returns	arguments
		arguments
getB	the GameObject being	-
	b	
getMeadow	the plantOnMeadow	-
	component, see that	
	page	
createUid		
Cleateoid	an application-wide	-
	unique string	
getMinusYReference	the Vector3	-
	representing the point	
	"far below"	
nop	nothing, does nothing,	-
	suitable for passing as	
	callback when you	
	don't require one	
nopA <t></t>	nothing, does nothing,	1: type T, is
	suitable for passing as	ignored, range:
	callback which takes	any
	argument of type T	
	when you don't	
	require such	

TimeTaker

name	returns	arguments
takeTimefor	-	1: interface TimeReceiver, you need to implement void timeTransitionsToNight (bool itDoes) which is called when day transitions to night and night to day
stopTakingTimefor	-	1: interface TimeReceiver, same object you passed to takeTimefor
getDayCompletionFro mDawn	a float from OF to 1F linearly interpolati ng from dawn to dawn across day and night, .5F is day end / night start	-

BLift

name	returns	arguments
inform	-	1: interface Spectator, you need to implement void bTransitions(bool intoSpace) which is called when b transitions to and when b transitions from space
stopInforming	-	1: interface Spectator, same object you passed to inform
getDistanceFromHorizon	a float being the distance from the horizon where b would transition into or out of space	-

plantOnMeadow

name	returns	arguments
plantSeed	the id of the seed planted, as an int	areuments1: GameObject being the prefab to plant2: int being the amount of argument 1 to plant3: bool when true
		planted 7: bool when true

		indicating the
		meadow is a sphere,
		argument 5 should
		then be the center of
		that sphere
		8:
		Action <gameobject[]></gameobject[]>
		to call when planting
		occurred passing all
		planted instantiations
		of argument 1 to it
exchangeSeed	-	1: int, being the id
		from plantSeed
		2: GameObject, being
		a prefab to replace
		argument 1 to
		plantSeed which
		yielded the return of
		the id passed as
		argument 1 here
growBy	-	1: int, being the id
		from plantSeed, lets
		grow the GameObject
		passed as argument 1
		to plantSeed which
		yielded the return of
		that id
getBigTree	the GameObject	-
	being the central big	
	tree	



allows you to add controls to the settings menu opened by pressing the Escape key on the keyboard

AutoRunScript.cs is a SettingsUser which gets notified in OnApply when settings have changed. You can then let get the values of the controls you added from the protected property settings, of type Settings.

You can let create slider and checkbox.

name	returns	arguments
createSlider	bool which	1: string which shall uniquely
	is true when	identify the setting
	creation is	2: columnPosition, an enum
	succesful	which can be left or right
		3: string which is the label
		4: float which is the initial
		value
		5: float which is the
		minimum
		6: float which is the
		maximum
		7: bool which when true lets
		the slider be in integer steps
		from argument 5 to
		argument 6
		8: string which is the help
		text
		9: Color of argument 3
		10: Color of argument 8
createCheckbox	bool which	1: string which shall uniquely
	is true when	identify the setting
	creation is	2: columnPosition, an enum
	succesful	which can be left or right
		3: string which is the label
		4: float which is the initial
		value
		5: string which is the help
		text
		6: Color of argument 3
		7: Color of argument 5
getValue	a float being	1: string identifying the

the curent	setting to get the value of
value	2: optional float being the
represented	value returned when the
•	
by the	setting to be identified by
control	argument 1 is not found
identified by	
the	
argument 1	
passed here,	
either 0F or	
1F for	
checkbox	
representing	
unchecked	
and checked	

FormContinuer

seamless continuation of a sine wave of frequency A at a point by a sine wave of a different frequency

name	returns	arguments
FormContinuer	- (the object, is constructor)	1: float being a time offset for when the original wave does not start at time == OF 2: float being frequency A as factor to time progress of the wave
continueForm	float being the value of the wave at argument 1	1: float indicating the transition time 2: float being the different frequency This setup does appear to not fullfill the desire before the creation of this functionality, investigation to do