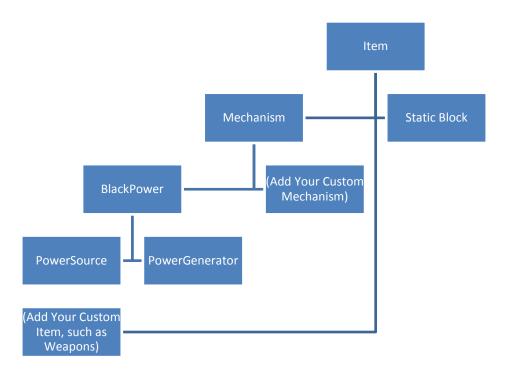
Mechanism Blocks

Documentation

Inherited Scripts



- Item is the necessary parent of all items in the inventory. All items inherit this class. You can add any item types as you would like as long as they inherit Item, such as Weapons, Armor, Crafting, etc.
- Static Block is only inherited once. The name says it all.
- Mechanisms are usually powered blocks or unique blocks that have certain mechanisms with them, such as the premade mechanism BlackPower. You can add any mechanisms as you would like as long as they inherit Mechanism.
- BlackPower is a premade Mechanism to show an example of how to make a mechanism block. Feel free to use it in your own projects.
- PowerSource and PowerGenerator are inherited by BlackPower.

Closer Look: Item

Item is the base component to every item in the Inventory.

What it inherits:

None

What it contains:

Variables:

public ItemTypes type	Defines the type of Item it is,
	feel free to add your custom
	types to the enum.
public string itemName	Defines the unique name of
	the item.
	Also, item icons have to be the
	same name as the itemName.
public int howMany	Defines how many items are
	currently in the stack out of
	the stackSize.
public int stackSize	Defines the number total stack
	size the item can contain.
public bool inInventory	If the item is currently in the
	Inventory.
public bool stackable	If the item can stack at all. If
	this is set to true, it's
	recommended to set the
	howMany and stackSize
	variables to 1.

Closer Look: Item (Continued)

Methods:

All methods are non-unique (get; set;) methods except for:

public void	Input variables:	Based on the
setHowMany	HowMany type,	HowMany enum,
	int value	the howMany
	Return variables:	variable is either set
	void (null)	to the value or
	, ,	increased by the
		value.

Closer Look: Static Block

This block has no special mechanisms, primarily used for building.

None.

What it inherits:	
Item	
What it contains:	
Variables:	
None.	
Methods:	

Closer Look: Mechanism

Mechanism is the component that makes certain blocks have special mechanisms. The UI will highlight items red if they inherit Mechanism.

What it inherits:

Item

What it contains:

Variables:

public string itemDescription	Describes the description of
	the mechanism in the
	MechanismUI.
public List <mechanism></mechanism>	This List will return
surroundingMechanisms	mechanisms in all directions in
	one radius. It's recommended
	to see how BlackPower utilizes
	this List.

Methods:

public List <mechanism></mechanism>	Input variables:	Use the variable
SurroundingMechanisms	None.	above instead of
		this method.
	Return variables:	ems meemodi
	List <mechanism></mechanism>	

Closer Look: BlackPower

A premade mechanism used as an example of how to create mechanisms. This mechanism features power as BlackPower (BP).

What it inherits:

Item ⇒ Mechanism

What it contains:

Variables:

public BlackPowerType	Sets the BlackPowerType for
maxPower	the BlackPower mechanism.
public int currentPower	The current power of the
	BlackPower mechanism.

Methods:

All methods are non-unique (get; set;) methods except for:

public void	Input variables:	Based on the
setCurrentPower	HowMany type,	HowMany enum,
	int value	the currentPower
	Return variables:	variable is either set
	void (null)	to the value or
	, ,	increased by the
		value.

Closer Look: PowerSource

The PowerSource holds BP inside this mechanism per block.

What it inherits:

 $Item \Rightarrow Mechanism \Rightarrow BlackPower$

What it contains:

Variables:

public List <powergenerator></powergenerator>	List of all generators attached
generators	to this mechanism using
	surroundingMechanisms.
public bool generatorAttached	If there is currently at least
	one generator attached to the
	power source.
private bool isTiming	If it is currently timing.
	Generators must be attached
	for this to ever be true.
static float startTimer	Starting/Reset time.
float timer	Current Time.

Closer Look: PowerSource (Continued)

Methods:

void Timer	Input variables:	Used for the timer.
	Return variables:	
void AddPower	Input variables:	Adds power to the
	null	currentPower based
	Return variables:	on how many
	null	generators are
		attached and what
		level the generators
		are.

Closer Look: PowerGenerator

The PowerGenerator generates BP to be connected to a PowerSource based on its level.

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Item \Rightarrow Mechanism \Rightarrow BlackPower

What it contains:

Variables:

None.

Methods:

None.

Enums:

HowMany	totalValue	Used to set a
		howMany variable.
	increment	Used to increment a
		howMany variable.

ItemTypes	Item	Set the item type.
	StaticBlock	Add your custom
	Mechanism	itemTypes here.
	PowerSource	
	PowerGenerator	

BlackPowerType	lowPower	Has a int power
	medPower	associated to the
	highPower	type, from low to
		high. Used in
		BlackPower for
		power levels.

Additional Help:

I posted a few videos on how to set up MechanismBlocks, even from scratch here:

https://youtu.be/NeeaHLtamls

https://youtu.be/VTlyrWVwdp8

How to add a custom UI:

https://youtu.be/sPJPi5if6Uo

If you have any other questions/concerns/comments, please write me an email at dan.devilbissjr@gmail.com. I will respond ASAP and will not take more than 1 business day.