Cultistlike v2.2.0

grav2ity

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1 Setup

- Start a 3D project (Built-In Render Pipeline)
- Import DOTween package
- · Import Cultistlike package

Please refer to the demo scene for a working setup.

Cultistlike/Demos/

2 Scriptable Objects

Game logic is driven by Scriptable Objects. You can create new Objects with the right click Create menu. Objects need to be placed somewhere under Resources folder.

2.1 Act

Initial Acts for a Token are evaluated in Scriptable Object's name alphabetical order.

2.1.1 Token

Limits execution to this Token. Mandatory for initial and spawned Acts.

2.1.2 Initial

First in the Act chain. Can be started by player pressing button.

2.1.3 Tests

All the tests must pass to enter this Act. Matched Cards from Card tests will be available in the On Complete modifiers.

2.1.4 And

All of the And Rules must pass to enter this Act. Modifiers are not applied. Matched Cards are not carried in nor out.

2.1.5 Or

One of the Or Rules must pass to enter this Act. Modifiers are not applied. Matched Cards are not carried in nor out.

2.1.6 Fragments

Fragments are added upon completing Act.

2.1.7 On Complete

Modifiers run upon completing Act. See the Modifiers section.

2.1.8 Furthermore

Rules to be run upon completing Act. Matched Cards are not carried in nor out.

2.1.9 Ignore Global Slots

Only Slots from the list below will attempt to open while Act is running.

2.1.10 Slots

Additional Slots that will attempt to open while Act is running. To see more than one Slot you would have to alter the Act window prefab and add slots to Run Slots list.

2.1.11 Alt Acts

While running it is possible to switch to a different (Alt) Act. This will be triggered by un(slotting) Cards (if any running slots are open).

A list of potential Alt-Acts is considered.

- If Act Rule is set it must pass for the Act to remain in the list.
- If Act Rule is not set Act has Chance probability to remain in the list.

- If there is only one Act in the list Chance is ignored.
- If Random Alt is true this list will be randomly shuffled.

Above points are evaluated just after timer starts.

When user (un)slots Card from the running slots, entrance tests of Acts in the list will be evaluated. First Act in the list that passes its entrance tests will be the Alt-Act and window will display its description. If this switch happens and timer runs out it is as if the original Act never ran. Fragments, On Complete modifiers, Next Acts etc. from the Alt-Act will used.

2.1.12 Next Acts

Upon completion of the Act a list of potential next Acts is considered.

- If Act Rule is set is must pass for the Act to remain in the list.
- If Act Rule is not set Act has Chance probability to remain in the list.
- If there is only one Act in the list Chance is ignored.
- If Random Next is true this list will be randomly shuffled.

First Act in the potential Next Acts lists that passes its entrance tests will be the Next Act.

2.1.13 Spawned Acts

Upon completion of the Act a list of Spawned Acts is considered.

- If Act Rule is set it must pass for the Act to remain in the list.
- If Act Rule is not set Act has Chance probability to remain in the list.

All Acts in the resulting list will be spawned inside their own Tokens. Make sure the Acts have a Token field set.

2.1.14 On Spawn

Rule that will be run on spawning this Act in a new Token.

2.1.15 Text

Text displayed when Act is running or is ready to be started.

2.1.16 Text Rules

Text from the first first Rule that passes entry tests is used in place of the static Text field.

2.1.17 End Text

Text displayed when Act has finished. If this is set to the empty string (default) End Text from the previous Act will be used.

2.1.18 End Text Rules

Text from the first first Rule that passes entry tests is used in place of the static End Text field.

2.2 Aspect / Card

2.2.1 Color

Solid color used when art is not set.

2.2.2 Hidden

Do now show inside UI fragment bar.

2.2.3 Fragments

Initial Fragments.

2.2.4 Rules

Rules will be run on Act completion if Fragment is present.

2.2.5 Slots

Slots that will attempt to open if Fragment is present.

2.2.6 Decay To (Card only)

Whenever Card is created it will automatically Decay to / turn into the specified Card.

2.2.7 Lifetime (Card only)

How long will it take for the Decay to complete.

2.2.8 On Decay Into (Card only)

Rule will be run when some other Card finishes decaying into this Card.

2.2.9 Unique

Only one instance of this Card can be in a game at any given time.

2.3 Deck

Decks can be used to simply draw random Cards or to establish a fixed order of Cards.

Currently Fragments need to be Cards.

2.3.1 Fragments

Deck content.

2.3.2 Default Fragment

Fragment to draw when Deck is empty.

2.3.3 Tag On

Fragments added to every Fragment drawn from the Deck.

2.3.4 Shuffle

Randomize Deck order.

2.3.5 Replenish

Replenish fragments on exhaustion.

2.3.6 Infinite

Drawing does not remove fragments from the Deck.

2.4 Slot

2.4.1 Fragments

Fragments will be added to the Act window whenever Card is slotted.

2.4.2 Token

Token in which Slot will attempt to spawn.

2.4.3 Unique

Only one instance of this Slot can be spawned per window.

2.4.4 All Tokens

Attempt to spawn in all Tokens.

2.4.5 All Acts

Attempt to spawn in all running Acts.

2.4.6 Spawn Tests

All the Tests must pass for this Slot to spawn.

2.4.7 Spawn Rule

Rule must pass for this Slot to spawn.

2.4.8 Required

Card must have at least Count of one of the Required Fragments to be accepted in this Slot.

2.4.9 Essential

Card must have at least Count for all the Essential Fragments to be accepted in this Slot.

2.4.10 Forbidden

Card must have less that Count for every Forbidden Fragment to be accepted in this Slot.

2.4.11 Card Test

Additional tests that must pass for a Card to be accepted. This will not show in the tooltip.

2.4.12 Card Rule

Additional Rule that must pass for a Card to be accepted. This will not show in the tooltip.

2.4.13 Accept All

Allows to place all Cards in the Slot.

2.4.14 Grab

Slot will automatically grab Cards for itself.

2.4.15 Card Lock

Cannot remove Card from the Slot.

2.5 Rule

Rules are convenience objects that group tests, modifiers and a text field.

- To evaluate a rule means to evaluate its tests without executing modifiers.
- To run a rule means to evaluate tests and only execute modifiers if tests passed.
- Rules can be used in many places but often only evaluation will take place.

2.5.1 Tests

All the tests must pass for this Rule to pass. Matched Cards from Card tests will be available in the Modifiers section.

2.5.2 And

All of the And Rules must pass for this Rule to pass. Modifiers are not applied. Matched Cards are not carried in nor out.

2.5.3 Or

One of the Or Rules must pass for this Rules to pass. Modifiers are not applied. Matched Cards are not carried in nor out.

2.5.4 Modifiers

See the Modifiers section.

2.5.5 Furthermore

Additional Rules to be run if this Rule passed. Matched Cards are not carried in nor out.

2.6 Token

2.6.1 Label

Label to display when no Act is running.

2.6.2 Description

Description to display when no Act is running.

2.6.3 Text Rules

Text from the first first Rule that passes entry tests is used in place of the static Description field.

2.6.4 Color

Solid color used when art is not set.

2.6.5 Slot

First Slot to open for this Token when no Act is running.

2.6.6 Dissolve

Destroy Token after completing last Act.

2.6.7 Unique

Only one Token of this type can be on the table at any given time.

3 Tests

- Tests are arithmetic (in)equalities.
- If Fragment 2 is not set the amount of Fragment 1 is compared against the Constant value.
- If Fragment 2 is set the amount of Fragment 1 is compared against 'Constant * the amount of Fragment 2'.
- Loc 1 and Loc 2 determine where to count the specified Fragments.
- If Fragment is Aspect all the aspect present in that location will be counted (aspect from Cards + unbound aspect).
- If Fragment is Card amount of that Card type will be counted.

3.1 Card Test

If Card Test option is selected:

- If Fragment 1 is Aspect test is applied on a per Card basis i.e. it tests for a presence of a Card with Aspect value less/equal/more.
- If Fragment 1 is Card all Cards of that type pass the test if their total count passes the (in)equality.
- After evaluating the test all the Cards that passed it become a new Matched Cards list.
- You can slice the MatchedCards list to contain only the n first Cards by setting Fragment 1 to None

3.2 Location

- Scope count in the current scope. This will be content of the Act window in most cases.
- Matched Cards count among the Matched Cards. In the topmost test these are always all Cards present in the scope.
- Table Cards on the table (including moving towards the table) = [everything under the Table Object in scene hierarchy].
- Free every Card that can be picked up by the player (including Card currently being dragged and Cards in non-locked Slots).
- Anywhere [everything under the Root object in scene hierarchy].

3.3 Op

3.3.1 Random Challenge

Each Fragment gives a Constant chance of passing the test. For example with Fragment 1 set to XYZ and Constant set to 10, with 3 XYZ found there will be 30% chance of passing the test.

3.3.2 Random Clash

If there is 5 of Fragment 1 and 5 of Fragment 2 there is 50% chance of passing the test. If there is 10 of Fragment 1 and 90 of Fragment 2 there is 10% chance of passing the test.

4 Modifiers

4.1 Act Modifiers

Act Modifiers add/remove Fragments to the current Act window's scope.

- Level amount to be added / removed / grabbed.
- Reference if Reference is not set Level acts as a value. If Reference is set final Level will equal 'Level * the amount of Reference'.

4.1.1 Adjust

- If Fragment is Aspect this will add/remove unbound (not bound to a Card)
 Aspect.
- If Fragment is Card this will add freshly minted Cards (with default fragments) or remove and destroy up to Level existing Cards (with their current fragments).
- If Fragment is special (___MatchedCards) this will create Level copies of those Cards (with their current fragments) or remove and destroy them.

4.1.2 Grab

- If Fragment is Aspect this will grab up to Level Cards having that Aspect.
- If Fragment is Card this will grab up to Level Cards of that type.
- If Fragment is special (___MatchedCards) this will grab up to Level of those Cards.
- If Level is set to 0 this will grab all matching fragments.

4.1.3 Run Triggers

This will run trigger Rules of a specified Fragment even when it's not actually present inside the scope. This is especially useful when combined with _MatchedCards special fragments to run triggers of a Card that actually exists on the table.

4.2 Card Modifiers

Card Modifiers target Cards in current Act window's scope (or Matched Cards that could be anywhere but see the warning in the Special Fragments section).

- If Target is Aspect this will target all Cards that have that Aspect.
- If Target is Card this will target all Cards of that type.
- If Target is special (___MatchedCards) this will target those Cards.

4.2.1 Fragment Additive

Add/remove Level of Fragments from the Target Cards.

• Fragment should be an Aspect.

4.2.2 Transform

Transforms Target into new Card type. Target Card's aspects are kept. New Card's aspects are ignored.

- · Fragment must be a Card.
- Level must be > 0.

4.2.3 Decay

Decays Target. If Fragment is set this will decay Target to Fragment in Level seconds. Otherwise this will use Target Card's decay settings.

• Fragment must be a Card or None.

4.3 Table Modifiers

4.3.1 Spawn Act

Spawns a new Token and starts Act. Act's On Spawn Rule will be run. Make sure Act's Token field is set.

4.3.2 Spawn Token

Spawns a new Token via Act's Token field.

4.4 Path Modifiers

4.4.1 Branch Out

Runs Act (if tests pass). After reaching chain's end returns back to the end of the Act from which Branch Out was called and continues from there. This is like a function call.

Only one Branch Out per Act is allowed but it's OK to nest them (use Branch Out from within an Act that was reached by Branch Out). Force Act takes precedence over Branch Out.

4.4.2 Force Act

Unconditionally runs Act.

4.4.3 Set Callback

Save an Act to be called on later. This will persist until another Set Callback.

4.4.4 Callback

Run previously set callback Act (if tests pass). This takes precedence over normal Next Acts list.

4.4.5 Game Over

Clears the table and spawns Act.

4.5 Deck Modifiers

Drawing Cards implies creating new Card instances of a drawn Card type and adding them to the scope.

- If Deck field is set to None, Deck From field is used to get Deck via Fragment's Deck field.
- If Deck From is set to __MatchedCards type of the first Matched Card will be used
- Fragment field (if used) specifies singular Card by its type or a set of Cards when set to __MatchedCards.

4.5.1 Draw

Draws a random Card.

4.5.2 Draw Next

Searches the Deck for Cards specified by the Fragment field and draws Cards that follow them.

4.5.3 Draw Previous

Like Draw Next but takes previous Cards.

4.5.4 Draw Previous

Adds Cards specified by Fragment to the end of the Deck.

4.5.5 Forward Shift

Similar to Draw Next but instead of drawing new Cards, Cards specified by Fragment field are transformed into Cards that would have been drawn.

5 Special Fragments

5.1 _MatchedCards

For the first (topmost) test the Matched Cards are simply all the Cards inside the scope. For any subsequent test Matched Cards are those that passed Card Tests above it. In this way you can progressively filter Cards.

Inside modifiers you can reference the Matched Cards by choosing special ___MatchedCards fragment. Matched Cards are only valid within a single Unity Editor Act or Rule view i.e. Matched Cards will not carry in nor out of And/Or/Furthermore Rules.

WARNING

Matched Cards are evaluated at the start but modifiers are executed after timer completes. If you are matching Cards outside of the current scope (e.g. on the table) they might have been destroyed by the end of the Act. Inside an Act that takes non-zero time to complete do not run modifiers on Cards matched outside of the current scope.

5.2 _ThisCard

• Inside trigger Rules listed in a Card Scriptable Object this can be used to reference the Card instance that triggered the Rule.

5.3 _ThisFragment

 Inside trigger Rules listed in an Aspect Scriptable Object this can be used to reference the Aspect that triggered the Rule. • Inside trigger Rules listed in a Card Scriptable Object this can be used to reference type of the Card that triggered the Rule.

6 Text Options

Inside (End) Text and Description fields:

- [SOfilename] will be replaced by the count of that Fragment.
- [MC] will be replaced by the label of the first Matched Card.
- {[SOfilename op number] text} will be replaced by text if inequality holds and empty string otherwise.

Where

- SOfilename stands for filename of the Fragment Scriptable Object.
- op is one of (>=,<=,==,!=,>,<).
- · number is a positive integer.
- text can contain other [] expressions but nested {} are not supported.

See Act's and Token's textRules for more options.

7 Changing Card Size

To change size of Cards (and Tokens) you need to modify three sets of values.

- Actual physical size of the prefabs (Card, Card Slot, Token)
- ArrayTable component's Cell Size setting. This is a physical size of a single table cell.
- How many cells does one Card (Token) occupy on the table. This is changed via CardViz (TokenViz) component's

Cell Count variable with final cell count set to $(1,1) + 2^*(x,y)$. By playing with these values you can create margins between Cards on the table or make them overlap. There is currently no mechanism for any Z-sorting of overlapping Cards.