

Active Battle System

Documentation for Version 1.2 Build 800

[DOCUMENTATION]

Complete the demo game for a better understanding of the basics of Alpha ABS controls and concepts

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Helpful information

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The license applies only to the plugin Alpha ABS .js files.

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Alpha ABS Web Page

https://kagedesuworkshop.blogspot.ru/p/alpha-abs.html

Description:

The main idea of mechanics of the combat system (hereinafter ABS) borrows from the game < World of Warcraft >. To perform combat actions, you must have a target. Every combat action (item, spell, weapon attack) is implemented using a special skill (ABS Skill). The basic concept of actions is based on 4 types of ABS Skill:

- 1) "Instant" (<ABS:0>) performed on target. <World of Warcraft> example: Agony
- 2) "Vector" (<ABS:1>) It creates an object (a vector), which will follow to the target and performed when hit target <World of Warcraft> example: Frostbolt
- 4) "Zone" (<ABS:3>) creates a certain zone in the direction of use, performed on all the objects that be in area.

<World of Warcraft> example: Cone-of-cold

ABS Skills have special parameters, combine that allows you create a unique spells. Main difference between ABS skills it is special rules of combination of parameters.

Download and install

Check download link on Alpha ABS web page

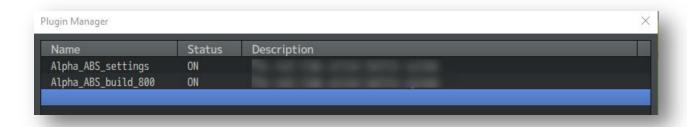
https://kagedesuworkshop.blogspot.ru/p/alpha-abs.html

Copy the ABS folder into your project directory to the img folder

Alpha_ABS_build_800.js and Alpha_ABS_settings.js to folder js/plugins

Alpha_ABS_build_800.js – this is the main plugin file. The build number may differ in the future. Do not connect two plugins with different build numbers!

Alpha_ABS_settings.js – this is the settings file with the plugin parameters



Warnign! If you not complete required settings, project doesn't start

The project required settings for ABS

Required configuration for start the project.

For detailed explanation see «ABS settings for Skills» chapter

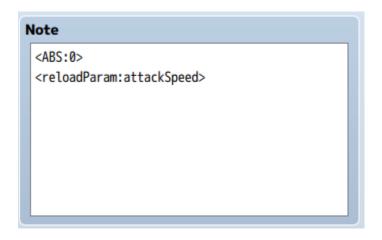
For standard Attack skill



Add to **Note**:

<ABS: 0>

<reloadParam: attackSpeed>



ABS Parameters

Next, we set the definition <abs param=""> - parameter of ABS object behavior.</abs>
<pre><paramname: x=""> - where paramName - name of parameter, X - Integer. <paramname: z=""> - where paramName - name of parameter, Z - Numbere Boolean (can be 0 or 1) <paramname: w=""> - where paramName - name of parameter, W - String (text)</paramname:></paramname:></paramname:></pre>
All ABS params are specified in object Note. Every object (enemy or skill) ca have both common and unique parameters.
For example: enemy ABS param <viewradius:x> - how long (map cells) enem</viewradius:x>
will see you
Note
<viewradius:5></viewradius:5>

ABS Parameters for Enemies and Skills (weapon, items) we will see in the relevant sections

ABS settings for Skills

All ABS parameters you should put in Note section.

Required ABS parameter is ABS:X, where X – id of ABS skill type (ABS skills types see in description above)

<ABS:0> - «Instant»

<ABS:1> - «Vector»

<ABS:2> - «Circle»

<ABS:3> - «Zone»

Next (and last) <u>required</u> is **occasion**. For ABS **spells** and **Items** must be set <Battle Screen>.



Depending on ABS skill type, some ABS parameters will act differently. All other ABS parameters are optional.

Common ABS params for Skills

ABS Param	Description	Example	In database
<range:x></range:x>	Range (in map cells)	<range:8></range:8>	Repeat:
<casttime:x></casttime:x>	Casting time (in frames)	<casttime:90></casttime:90>	Speed: 90 ‡
<reloadtime:x></reloadtime:x>	Cool down time (in frames)	<reloadtime:90></reloadtime:90>	<only in="" note=""></only>
<reloadparam:w></reloadparam:w>	Cool down attribute (*).	<reloadparam:agi></reloadparam:agi>	<only in="" note=""></only>
<startsound:w></startsound:w>	Sound when use	<startsound:crossbow></startsound:crossbow>	<only in="" note=""></only>
<castanim:x></castanim:x>	Animation when casting (id of	<castanim:1></castanim:1>	<only in="" note=""></only>
	animation from in database)	By default using animation defined in	
	Animations 0001 Hit Physical	plugin	

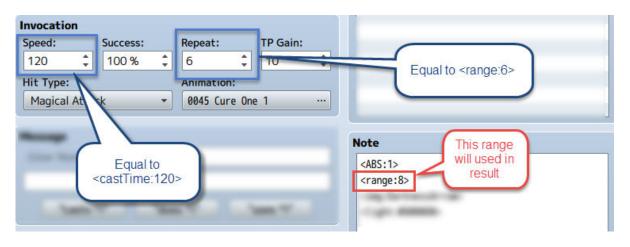
(*) reloadParam allow set cooldown time by character attribute (like agi, def, mdf, ect. Also calculations like agi + def/2, ect.) Attribute value will be interpreted in frames. By default, attack skill use parameter <attack speed> for cooldown (in frames). 1 second = 60 frames. You can set this parameter also on weapon, class, actor or ect.

reloadParam can be used with reloadTime (result = reloadParam() + reloadTime).

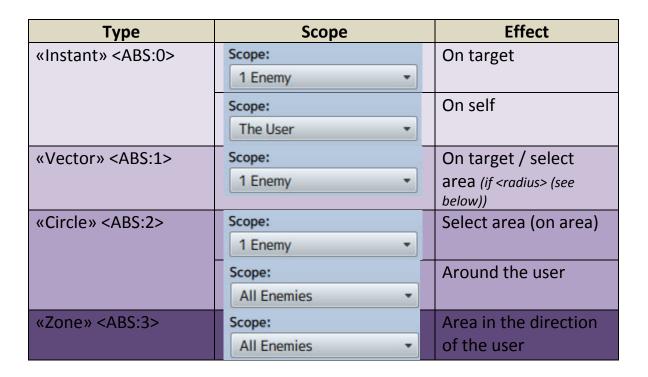
For example: <reloadParam:agi> - spell cooldown time will be equal to the character agi (Agility) attribute. If you character has 30 agility, then 30/60 = 0.5 seconds spell cool down.

Caution! Some ABS params you can set directly in database (see <in database> row in table above), but ABS param that was set in Note have priority and will overwrite the value from the database.

For example:



ABS Skill Scope settings



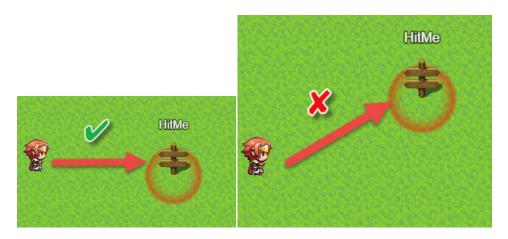
Attention! I highly recommend using ABS skill types with table scopes.

Advanced ABS parameters for ABS skill types

(also optional)

Туре	ABS param	Description	By default
«Instant»	<directionfix:z></directionfix:z>	On same line *	<directionfix:0></directionfix:0>
<abs:0></abs:0>			
«Vector»	<img:w></img:w>	Image file name (from	<img:vector></img:vector>
<abs:1></abs:1>		pictures folder)	(file
			pictures/vector.png)
	<vspeed:x></vspeed:x>	flight velocity	<vspeed:5></vspeed:5>
	<radius:x></radius:x>	Area radius (max 5)	<radius:0></radius:0>
	<directionfix:z></directionfix:z>	On same line *	<directionfix:0></directionfix:0>
«Circle»	<radius:x></radius:x>	Area radius (max 5)	<radius:3></radius:3>
<abs:2></abs:2>			

(*) If <directionFix:1>



If <directionFix:0> (by default)



ABS settings for Weapons

If weapon use standard attack skill, this settings not needed.

Weapon setting is like a skills settings, but exists some rules:

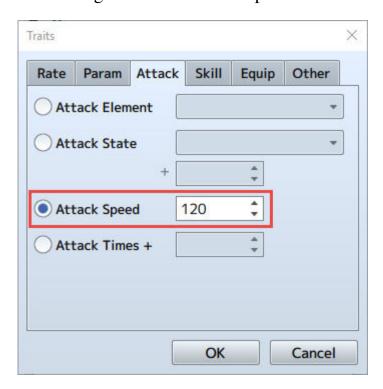
- 1) Support only <ABS:0> and <ABS:1> type.
- 2) <castTime:X> <u>not supported</u> at all. (You can't casting when using weapon)
- 3) If type is <ABS:1>, you <u>can't use</u> <radius:X> (You can't select area when using weapon)

These rules are related to the fact that the weapons just modifies an attack skill. In fact, these rules apply to the configuration of attack skill, be careful.

For example: Bow



By default, **attack skill** use parameter <attack speed> for cooldown (in frames). **1 second = 60 frames**. If you want use own parameter or constant value, see <Basic settings>. You can set this parameter on **weapon**, **class**, **actor or ect**.



For example: We set weapon trait <Attack speed> = 120, when we equip weapon, attack skill cool down will be 2 seconds.

Weapon cooldown progress bar (with equipped weapon icon)



If cool down time <= 30 frames, will not be seen.

ABS settings for States



All current character states displayed in the upper right corner of the screen



The battle is in real time and every turn now is a one second on ABS map.

<Remove at Battle End> – if checked, state will be removed after character leave ABS map

<Auto-removal Timing: Turn End>

Remove at Battle End	Re	move b	y Re	stricti	on
Auto-removal Timing:	Turn End			•	
Duration in Turns:	4	‡	~	4	÷

State will be removed after <Duration in Turns> seconds. (exmpl. 4 second on picture)

<Auto-removal Timing: Turn End>

Remove at Battle End	Rei	move by	y Re	stricti	on
Auto-removal Timing:	Action End			*	
Duration in Turns:	1	1	~	1	÷

State will be removed after the character (with state) complete some battle action (attack, spell, use item).

States priority and displaying



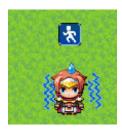
1) If **priority> >= 90**, then state **Icon** will be appear above your character too



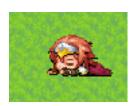
2) Also you can use <[SV] Overlay>



3) You can use both of them (icon and overlay)



4) Also <[SV] Motion> supports too (Sleep or Dead), but <u>don't work with</u> **Icon** or <[SV] Overlay>



State <u>always visible</u> above **enemy** (if priority > 90 too) and you can view it under enemy UI



States has one own ABS parameter <speed:X>. It will modify character movement speed (add X). Also, you can use negative value.

ABS settings for Enemies

List of enemies ABS params:

<name: value type> - description (default value)

<viewRadius: X> - how long (map cells) enemy will see you (5)

< returnRadius : X> - how many cells maximum enemy can escape from the last position where he fought (12)

<escapeOnBattle: Z> - whether to escape from player during a battle when
there is no available actions or waiting for attack cool down (0)

<canSearch: Z> - can enemy hear everything happening around him (the reaction to the battle near (in the area of viewRadius param)) (1)

<noFight: **Z>** - no fight at all (0) (like dummy in demo game)

<reviveTime: X> - time (in **seconds**) to reborn after death (0) (0-not reborn after death)

<regen: Z> - health regeneration (not in battle mode) (1)

<slow: Z> - not accelerating in pursuit (0)

<returnType: X> - 0 - fast, 1 - normal, 2 - stay (not return at all)

<aggressive: Z> - is aggressive? (always approach the player) (1)

<noMove: Z> - can't moving during battle (0)

<noEmote: Z> - no balloon animation (0)

<teamld: X> -enemy team (1).

0 – is the player party team. Enemies in same teams don't fight each other

<rage:Z> - switch the target to the one who caused more damage (1)

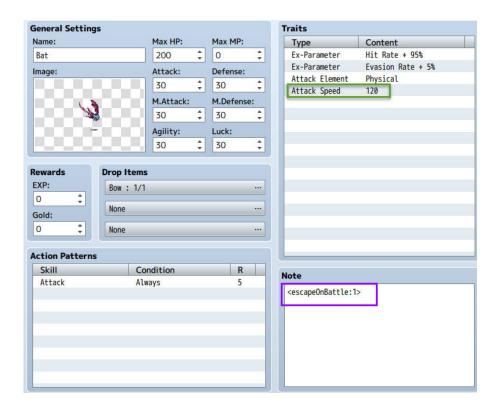
<cEonStart: X> - call common Event with ID (X) when start battle (see target)

<cEonEnd: X> - call common Event with ID (X) when stop battle (after start)

<cEonDeath: X> - call Common Event with ID (X) on Death

Not one of the ABS params is not required, you can create enemy with empty Note. In this way all params will sets automatically with default values.

For example: Bat from Demo game.



We use default attack skill, so we add <a trait (120 frames).

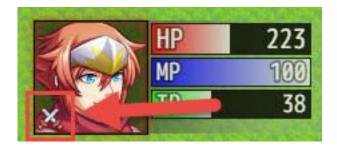
Also we use only one enemy ABS parameter <escapeOnBattle>.

ABS Map and events commands

To turn on ABS on map, add <ABS> keyword to map **Note**.



ABS map has two modes: normal mode and battle mode. Battle mode is activated when the player enters to fight.



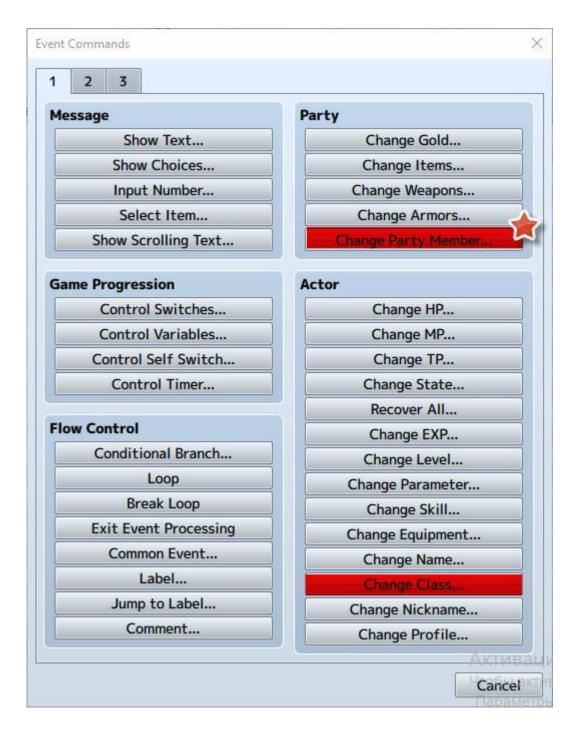
While the portrait has icon 🎉, you are in battle mode.

There are restrictions for both modes. Battle mode includes all restrictions of normal mode. Basically the restrictions associated with events commands. Be careful when you create events on ABS map.

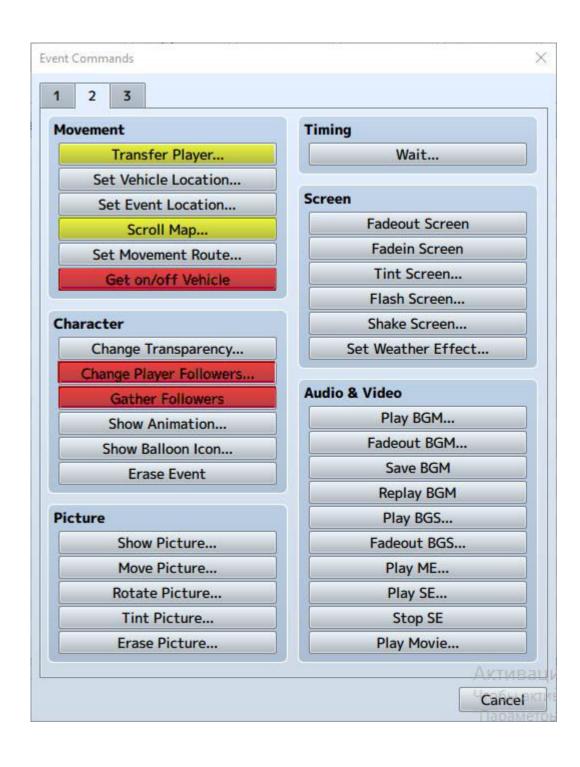
List of restrictions:

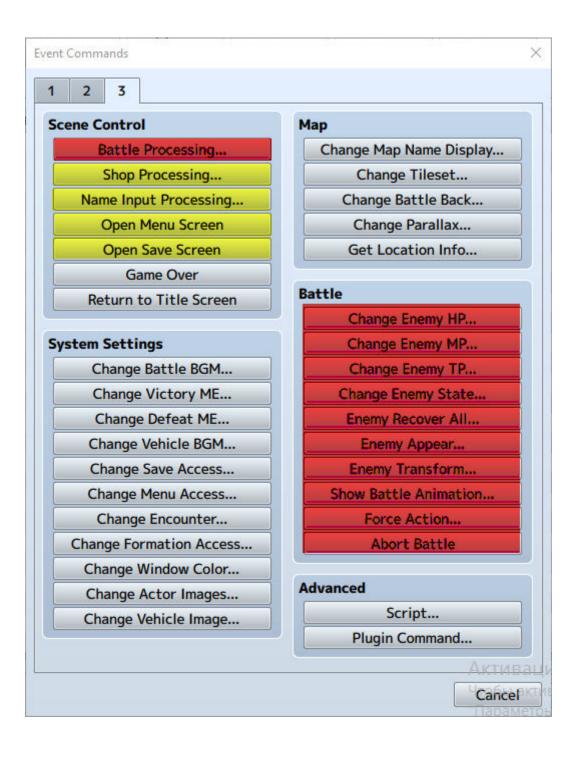
RED – event command don't work on ABS map at all (in two modes).

Yellow – event command <u>don't work</u> only in battle mode.



^{* -} you can add new members in your party, but can't remove any

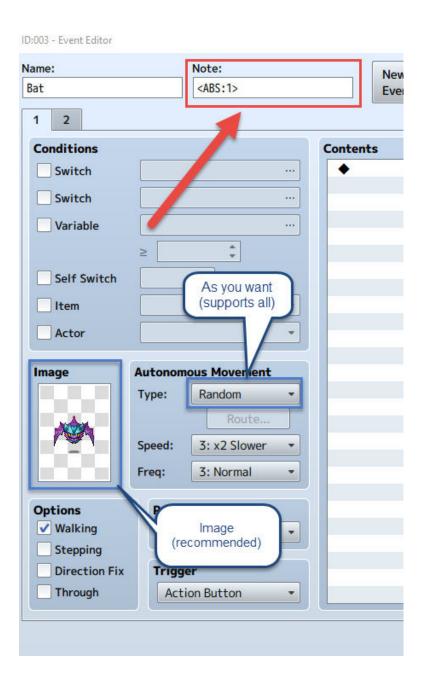




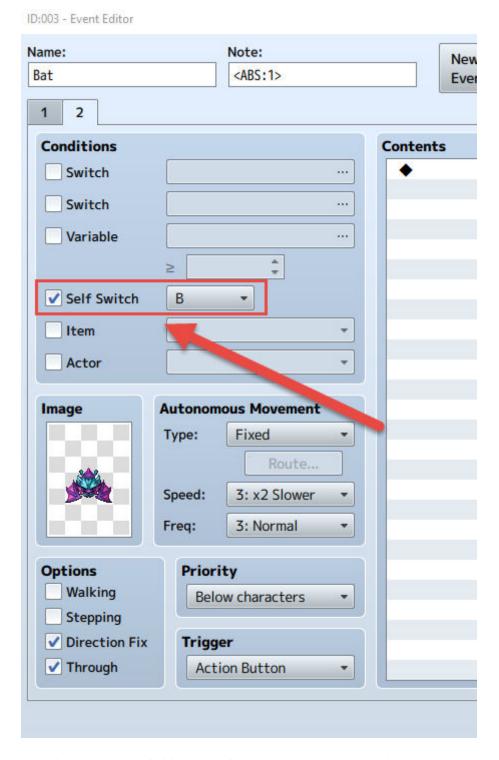
Create enemies on ABS map

Create a map event, add to **Note** ABS:X, where X – id of enemy from Database.



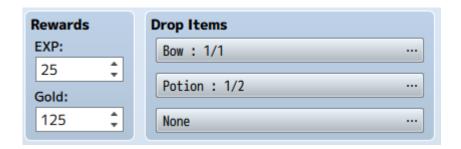


Next, add second event page for dead state. By default <Self Switch> is **B**, but you can change by plugin parameter <Enemy Dead Switch>.

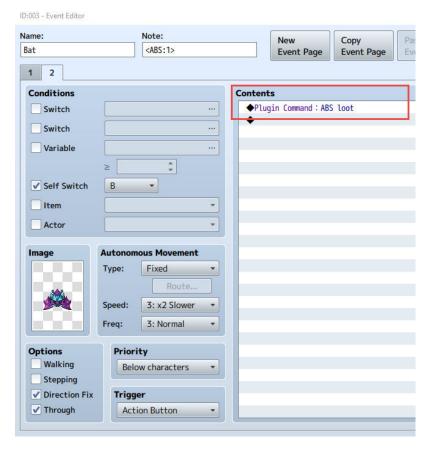


Dead enemy work like simple event, you can add some contents and interact with it.

For example: we want when interacting with a dead enemy, we received from him the gold and items that you set in its settings in the database. (The experience we get automatically)



Add <Plugin Command> <ABS loot> on dead enemy page.

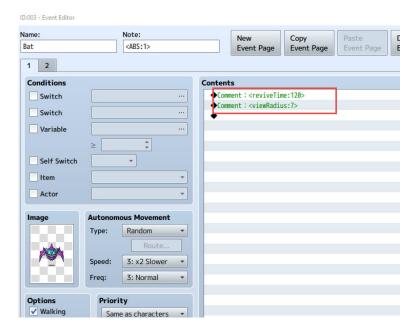


Take attention on two things:

- 1) Read the description of <ABS loot> command and <Auto loot enemies> plugin parameter.
- 2) <ABS loot> runs once on dead enemy. On interaction with the enemy again and again you don't get more items and gold. (Only if enemy is revived and you kill him again (see advanced settings))

Enemy ABS parameters on Event

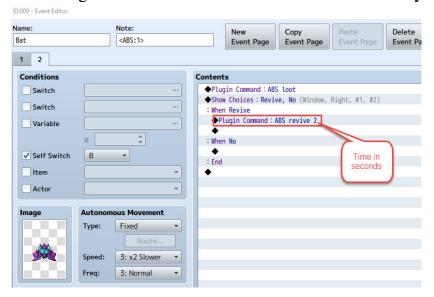
You can write ABS parameters directly in event for create unique instances.



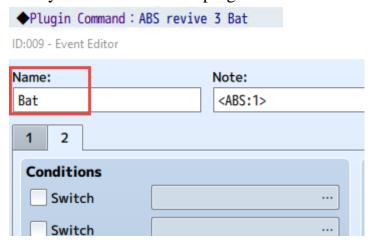
This parameters will override database parameters and take effect only on this instance of enemy.

3 Ways to revive enemy

- 1) Set ABS param <reviveTime:X> in enemy Note (in database) or in enemy event.
- 2) Use <Plugin Command> ABS revive X on dead enemy event page.



3) Use <Plugin Command> ABS revive X W, where X – time in seconds, W – enemy **event Name**. This plugin command can be called <u>from another event</u>.

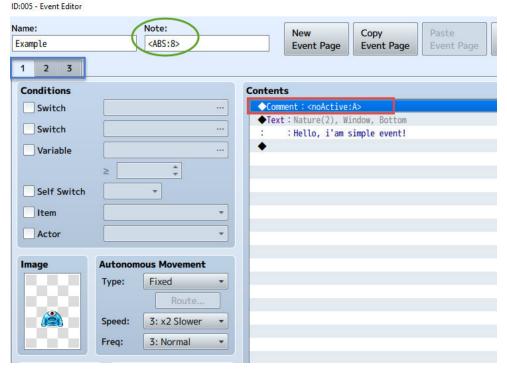


Deactivate enemy on start

If you want that the enemy did not turn on AI from start, you can deactivate enemy.

You need at least 3 event pages.

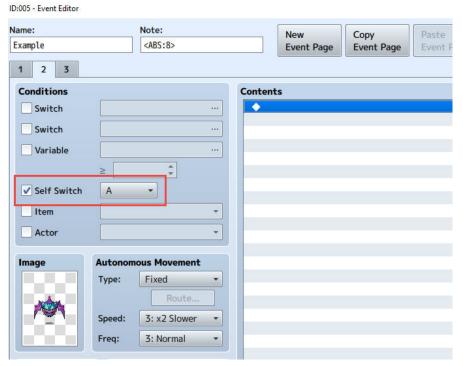
1) First is event page where enemy is not has AI



Put comment $\langle noActive:W \rangle$, where $W - \underline{Self\ Switch}$ with active enemy page.

Don't forget like in a simple enemy use Note

2) Create next event page with used in comment Self Switch

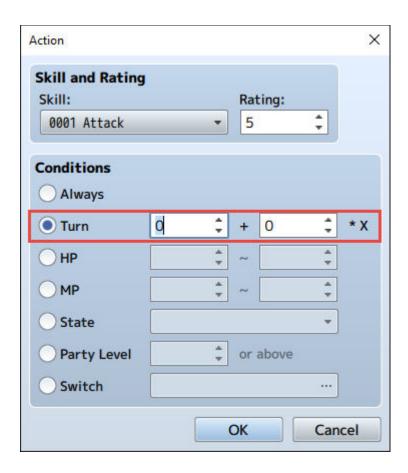


This page like a simple enemy we create before

- 3) Create last event page with Dead Switch (for dead state) (see basic settings)
- 4) Use <Plugin Command> ABS activate W, where W enemy **event Name**. This plugin command can be called <u>from another event</u>.

◆Plugin Command: ABS activate Example

Enemy Action Conditions



You can use standard conditions for enemy actions, but condition <Turn> now in seconds. Each enemy has its own timer that starts counting only when the enemy <u>directly engages in battle</u>.

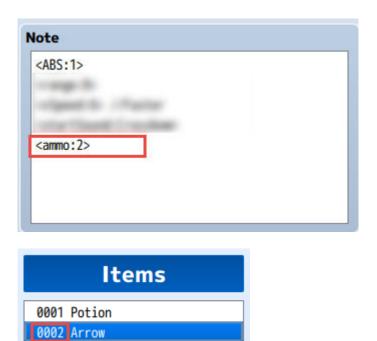
Advanced ABS settings for Skills and Weapons

Using ammo

You can create weapon (or spell) that needs ammo.

For ammo you need create simple Item object in database. (see how created <Arrow> (id 2) in Demo game database)

Use ABS parameter \leq ammo:X \geq in weapon (spell) **Note**, where X – id of ammo item.



When you attack by this weapon or use spell, ammo <u>automatically decreases</u> by 1 from party inventory. When ammo item count = 0, you can't use weapon (spell).

Create multiply charged skills (weapons)

You need use **two** ABS parameters:

<stack:X> - charges count, minimum is 2

<stackTime:X> - all charges reload time (in frames), not be 0

After each charge cooldown time be <reloadTime> or <reloadParam>, but when all charges is gone, cooldown time be <stackTime>

You can use this parameters <u>with ammo</u>, but remember ammo be <u>decreased</u> by 1 on each charge.

Weapon and Skill in game description

By default skills and weapon have own description.





Also, if you have a target, you can see the approximate damage value of skill\weapon



To disable the description, you must use ABS parameter <noDescription : 1> on skill or weapon Note.

Plugin commands

ABS showUI

ABS hideUI

[] - optional

ABS activate [EventName] – activate current enemy event or event with [Event Name]

ABS deactivate [EventName] — deactivate current enemy event or event with [Event Name]

ABS param [ParamName] [Value] [EventName] — change ABS parameter for enemy event, where [ParamName] — name of ABS parameter, [Value] — new value for ABS parameter, [EventName] — event name (or current)

Example: ABS param NoEmote 1 – set NoEmote to true for current Event

◆Plugin Command: ABS param NoEmote 1

Mobile device restrictions

In game UI Editor and Key binding Editors not allowed on mobile devices



Type 2 skills with select area not allowed on mobile devices



If class has one of those skills, you see warning in console on map load

The icon signatures are not visible



