2023/11/01 08:16 1/19 helper effects.hps

helper_effects.hps

Effect_Shake_Start

Makes the screen shake for a certain amount of time. Returns id to the current shaking. If several calls to shake has been made the largest one is used.

- afAmount: The strength of the shake.
- afTime: The time it shakes at full intensity (fade in and fade out are added to this).
- afFadeInTime: The time before it reaches full strenght.
- **afFadeOutTime**: The time, after afTime is up, that it will take for the shake to reach zero strength.
- avDirAmount: The amount it will shake in each direction in camera space
- **afFrequency**: Times per seconds the shake will change offset. 0=every update (ie max).

Effect Shake FadeOut

Fades out one or all shake instances.

- **allD**: The id of the shake (returned by Effect Shake Start). -1 = fade out all active shakes.
- afFadeOutTime: the time it takes to fade out.

Effect_Shake_SetSourceEntity

Sets an entity as the source of a shake instance. The shake instance will increase in strength as the player gets closer to the entity.

update: 2015/10/28 hpl3:game:scripting:function_reference:helper_effects https://oldwiki.frictionalgames.com/hpl3/game/scripting/function_reference/helper_effects?rev=1446052579

- allD: The id of the shake (returned by Effect Shake Start).
- asSourceEntity: entity to be used as source.
- **afMinDist**: distance to entity where the shake will be at its most powerful.
- afMaxDist: distance where shake will have faded out completely.
- **aEasingType**: the curve the strength of the shake will follow as you move further from the entity.

Effect_Shake_GetCurrentShakeAmount

```
float Effect_Shake_GetCurrentShakeAmount()
```

Gets the current amount of shake (as in abs larges element in shake vector)

Effect_Shake_EnableAll

```
void Effect_Shake_EnableAll(bool abState)
```

Effect_VideoDistortion_EnableAll

```
void Effect_VideoDistortion_EnableAll(bool abState)
```

Effect_Fade_In

```
void Effect_Fade_In(float afTime)
```

Effect_Fade_Out

```
void Effect_Fade_Out(float afTime)
```

Effect Fade IsFading

```
bool Effect_Fade_IsFading()
```

Effect_Fade_GetAlpha

```
float Effect_Fade_GetAlpha()
```

Effect Glow AddEntity

Adds a glow effect to the object to make it more visible to the player Must be called from OnPostUpdate() every frame the glow should be visible

- apEntity: entity to glow
- afAlpha: how much it should glow, [0, 1]
- afY: The position of the the glow.

Effect_Bloom_SetActive

```
void Effect_Bloom_SetActive(bool abX)
```

Sets if bloom should be active Bloom is an effect that makes bright colors glow in a halo around the object

• abX: if bloom should be active

Effect_Bloom_FadeBrightPass

Changes the bright pass of the bloom over time

- afBrightPass: how bright a color has to be to be able to bloom, this should be a values between 0-1
- afTime: time to fade

Effect Bloom FadeBloomWidth

Changes the width of the bloom over time

- **afBloomWidth**: the width in pixels of the bloom halo, works best with a value between 32-512 pixels
- afTime: time to fade

${\bf Effect_Bloom_FadeBloomFalloff}$

Changes the sharpness of the bloom over time

- afBloomFalloff: how sharp the bloom should be, higher = sharper, 0.5 default
- afTime: time to fade

Effect Bloom FadeBloomTint

Changes the color of the bloom over time

- (afR: the color to tint the bloom in
- afTime: time to fade

Effect FilmGrain SetActive

```
void Effect_FilmGrain_SetActive(bool abX)
```

Sets if film grain should be active Film Grain is an effect that applies animated noise to the image to remove banding and give life to it

• abX: if film grain should be active

2023/11/01 08:16 5/19 helper effects.hps

Effect_FilmGrain_FadeFilmGrainIntensity

Changes the amount of noise applied to the screen over time

- afIntensity: the amount of noise applied to the screen
- afTime: time to fade in

Effect_DoF_Start

Starts an instance of depth of field and returns the id

- afFocusStart: near plane of the instance
- afFocusEnd: far plane of the instance
- afFalloff: how smooth the transition from sharp to blurr should be
- afTime: time to fade to this value

Effect_DoF_FadeFocus

Fade the start and end of the focus plane

- allD: id of the instance
- afFocusStart: near plane of the instance
- afFocusEnd: far plane of the instance
- afTime: time to fade to this value

Effect_DoF_FadeFalloff

```
void Effect_DoF_FadeFalloff(int alID,
```

```
float afFocusFalloff,
float afTime)
```

Fade the falloff of the instance

- allD: id of the instance
- afFocusFalloff: how smooth the transition from sharp to blurr should be
- afTime: time to fade in

Effect DoF FadeOut

Fade out the instance of depth of field, the instance is removed after fading out

allD: id of the instanceafTime: time to fade out

Effect_DoF_Reset

```
void Effect DoF Reset()
```

Effect_ToneMapping_UseSRGB

```
void Effect_ToneMapping_UseSRGB(bool abX)
```

If srgb gamma should be used. Default is normal pow(x, 1 / gamma)

abX: If srgb gamma correction should be used

Effect_ToneMapping_FadeExposure

Changes the overall brightness of the image over time

- afExposure: how much extra light should be let though the lens, 0 is default
- afTime: time to fade in

Effect_ToneMapping_GetExposure

```
float Effect_ToneMapping_GetExposure()
```

Get the current exposure value of the viewport

Returns: , current exposure

Effect_ToneMapping_GetExposureBrightness

```
float Effect_ToneMapping_GetExposureBrightness()
```

Get the current exposure value of the viewport

Returns: , current brightness

Effect_ToneMapping_FadeWhiteCut

Changes the white point of the tone mapper over time Every color brighter then the white cut gets clamped to (1,1,1)

- afWhiteCut: the value of the white cut, every brighter color get set to white
- afTime: time to fade in

Effect_ToneMapping_FadeGrading

Fades in a grading texture which changes the final color of the image

- asTextureName: name of the grading texture
- afTime: time to fade in

Effect ImageTrail Start

Image trail blends the image of multiple previous frames over time, multiple instances can be active at the same time The strongest instance of image trail will be used

- afAmount: how much of the previous frame should be blended, values from 0-inf, 0 = disabled
- afFadeInTime: how long it should take to fade to fade in
- afStayTime: how long it will stay before starting to fade out. If <0, then it stays for ever.
- afFadeOutTime: how long it will take to fade out

Returns: the id to this image trail instance

Effect_ImageTrail_SetDirectAmount

```
void Effect_ImageTrail_SetDirectAmount(float afAmount)
```

Image trail blends the image of multiple previous frames over time. (in case Effect_ImageTrail_Start has also been used, the strongest instance of image trail will be used

• afAmount: how much of the previous frame should be blended, values from 0-inf, 0 = disabled

Effect_ImageTrail_FadeOut

Fades out an active instance of image trail

- allD: id of the trail instance, returned by Start
- afFadeOutTime: how long it will take to fade out

Effect_ImageTrail_Clear

```
void Effect_ImageTrail_Clear()
```

Clears all effects

2023/11/01 08:16 9/19 helper effects.hps

Effect_ChromaticAberration_StartAnim

Split the image into three images depending on color and makes rotation animation.

- afDuration: how long the effect should be active for, multiple instances can be active at the same time
- afAmount: how far the split should go in screen space, values between 0-0.2 look good
- **afRandomness**: the randomness of the splitting, if it should sway when splitting up and going back down, values larger than 1.0 will cause full rotation
- avDirection: an additional direction that the screen should move in when splitting, 0 = random

Effect_ChromaticAberration_SetDirect

Split the image into three images depending on color

- **afAmount**: The amount of the effect (how much seperation basically). Measured in part of screen. 0 0.2 looks good.
- **afRotation**: The rotation of the diffferent splits. 0 360
- **afHue**: Which use to split into, there is always a 120 seperation between each split, this sets. where to make these splits. 0 360
- avOffset: An extra offset.

${\bf Effect_ChromaticAberration_CreateInstance}$

Effect_ChromaticAberration_SetInstanceValues

${\bf Effect_ChromaticAberration_DestroyInstance}$

```
void Effect_ChromaticAberration_DestroyInstance(int alID)
```

Effect_Flash_Start

Fades exposure in and out to create a white flash effect.

- afFadeIn: time to fade in.
- afWhite: time to remain at the max exposure.
- afFadeOut: time to fade out.

Effect_Screen_Start

Creates a images that shows up on the screen, it must be faded manually Remember that these must work on both 4:3 and 16:9 aspect ratio

- asMaterial: material to use
- avPosition: position on the screen, values between [0,1]
- avSize: size of the texture

Returns: the id to this screen material

Effect_Screen_Start

Creates a images that fade in and then out Remember that these must work on both 4:3 and 16:9 aspect ratio

• asMaterial: material to use

avPosition: position on the screen, values between [0,1]

• avSize: size of the texture

• afTargetAlpha: alpha it should stop fading at

• afFadeInTime: how fast it should fade in

• afStayTime: how long it should stay after fading in

• afFadeOutTime: how fast it should fade out again

Returns: the id to this screen material

Effect Screen FadeOut

Fades out a material

• allD: id of the screen material

• afFadeTime: time to fade out over

${\bf Effect_Screen_FadeLiquidAmount}$

Fades the liquid amount of a material, this is a variable used by the shader to determine wetness

• allD: id of the screen material

• afAmount: liquid amount, value between [0,1]

• afFadeTime: time to fade over

Effect_Screen_FadeAlpha

Fades the transparency of a material

- allD: id of the screen material
- afAlpha: transparency of the material value between [0,1]
- afFadeTime: time to fade over

Effect RadialBlur SetDirect

Directly sets the values of radial blur (but will blend with any instnace that has been started)

- afSize: size of the blur, screen size, looks good 0.01-0.1
- afStartDistance: how far away from the center the blur should start
- afAlpha: how visible the blur is

Effect_RadialBlur_Start

Starts a radial blur effect, will be active until

- afSize: size of the blur, screen size, looks good 0.01-0.1
- afAlpha: how visible the blur is
- afStartDistance: how far away from the center the blur should start
- afTime: time to fade in

Returns: the id to this radial blur instance

Effect_RadialBlur_FadeSize

Changes the size of the blur of this instance

• allD: id to the instance to change

• afSize: size of the blur

• afTime: fade time of the blur

Effect_RadialBlur_FadeStartDistance

Changes how far away from the center to start blurring

• allD: id to the instance to change

• afDistance: distance from center [0-1]

• afTime: fade time

Effect_RadialBlur_FadeAlpha

Changes how visible the instance should be

• allD: id to the instance to change

• afAlpha: how visible it should be [0-1]

• afTime: fade time

Effect_RadialBlur_FadeOut

Fades out this instance and removes it. The ID is invalid after this has been called

- allD: id to the instance to fade out
- **afTime**: fade time

Effect_ImageFadeFX_SetAmount

```
void Effect_ImageFadeFX_SetAmount(float afX)
```

Effect_ImageFadeFX_FadeAmount

Effect_ImageFadeFX_SetTextures

Effect_VideoDistortion_SetDirectAmount

```
void Effect_VideoDistortion_SetDirectAmount(float afX)
```

Sets the amount of video distortion directly. (if there are instances in play, then the max amount will be used)

• afX: The amount of the effect, 0 - 1 are valid values. (0 turns off)

Effect_VideoDistortion_Start

2023/11/01 08:16 15/19 helper effects.hps

Starts the video distortion effect. If many have been started the max amount is used. Returns ID to this instnace.

- afAmount: The amount of effect, 0 1 are valid values. (0 turns off)
- afTime: The length the effect (after fade in) the effect should last. -1 means it lasts forever.
- afFadeInTime: The time it takes for the effect to fade in.
- afFadeOutTime: The time it takes for the effect to fade out.
- afVolume: Volume of gui sound (will override previous instances. Only one sound at a time)

Effect_VideoDistortion_FadeOut

Fades out a video distortion effect instance.

- allD: id to the instance to fade out. If -1, all instances will be faded.
- afFadeOutTime: The time it takes for the effect to fade out.

${\bf Effect_VideoDistortion_SetMaxAmount}$

Sets the max amount of an instnace (basically changes the amount)

- aIID: id to the instance to fade out
- afMaxAmount: The new max amount to be used, 0 -1 are valid values.

Effect VideoDistortion GetAmount

```
float Effect VideoDistortion GetAmount()
```

Get the current amount of the distortion

Effect_VideoDistortion_GetEffectAmount

```
float Effect_VideoDistortion_GetEffectAmount()
```

Get the current effect amount of the distortion (the one that is sent to the post effect)

Effect_VideoDistortion_SetSoundEffectsDisabled

```
void Effect_VideoDistortion_SetSoundEffectsDisabled(bool abX)
```

Set if video distortion sounds should be disabled.

Effect TimeGlitch Start

Starts an effect that makes physics and visual jump forward in time.

- **afTimeAdvancement**: The amount of time physics and visuals should advance.
- **afPlayFastSoundTime**: How long the sounds should run sped up. (sound freq depends on the time advancement + this time)
- afShakeAmount: How much the screen should shake.
- abPlayEffectSound: If an effect sound should play.
- afSoundEffectVolume: Volume of the sound being played.

Effect_Sway_FadeIn

- afSize: max X size of sway
- afTime: fade in time
- afRate: how many sways per second
- **afAngle**: sway will be around a line on XZ plane this sets the y-axis rotation of it (degrees : 0 = along X axis)
- **afInitialAmount**: how big is the initial sway size? (0.0f 1.0f) If negative, has no effect.
- afYMul: multiplier of afSwaySize for y
- **afDecay**: how fast the swaying dies away (1.0f = never dies)

2023/11/01 08:16 17/19 helper effects.hps

• afMoveFactor: how much of the player's move speed to factor in

Effect_Sway_SetDirect

- afSize: max X size of sway
- afRate: how many sways per second
- **afAngle**: sway will be around a line on XZ plane this sets the y-axis rotation of it (degrees : 0 = along X axis)
- afInitialAmount: how big is the initial sway size? (0.0f 1.0f). If negative, has no effect.
- afYMul: multiplier of afSwaySize for y
- **afDecay**: how fast the swaying dies away (1.0f = never dies)
- afMoveFactor: how much of the player's move speed to factor in

Effect_Sway_FadeOut

```
void Effect_Sway_FadeOut(float afTime)
```

• afTime: How long it takes to fade out.

Effect_Sway_Stop

```
void Effect_Sway_Stop()
```

Effect_Sway_GetOffset

```
cVector3f Effect_Sway_GetOffset()
```

Effect_Rumble_Start

```
int Effect_Rumble_Start(float afAmount,
```

update: 2015/10/28 hpl3:game:scripting:function_reference:helper_effects https://oldwiki.frictionalgames.com/hpl3/game/scripting/function_reference/helper_effects?rev=1446052579

```
float afTime,
float afFadeInTime=,
float afFadeOutTime=)
```

Start a gamepad rumble

Effect_GamepadColor_Fade

Fade the gamepad color (the backlight of the ps4 controller)

Effect_Rumble_Stop

```
void Effect_Rumble_Stop(int alID)
```

Stops the rumble from this id

Effect_Rumble_SetScreenShakeMul

```
void Effect_Rumble_SetScreenShakeMul(float afX)
```

Sets a multiplier for how much rumble should be generated from screenshake.

• afX: multiplier to set. 1 is default.

Effect_GamepadColor_Stop

```
void Effect_GamepadColor_Stop(int alID)
```

Stops the color fade from this id

From: https://oldwiki.frictionalgames.com/ - **Frictional Game Wiki**

Permanent link: https://oldwiki.frictionalgames.com/hpl3/game/scripting/function_reference/helper_effects?rev=1446052579



Last update: 2015/10/28 17:16