

LAMPIRAN

Move Camera

```

// Credit to damien_oconnell from
http://forum.Unity3d.com/threads/39
513-Click-drag-camera-movement
// for using the mouse displacement
for calculating the amount of camera
movement and panning code.

using UnityEngine;
using System.Collections;

public Class MoveCamera :
MonoBehaviour
{
    //
    // VARIABLES
    //

    public float turnSpeed = 4.0f;
    // Speed of camera turning
    when mouse moves in along an axis
    public float panSpeed = 4.0f;
    // Speed of the camera when
    being panned
    public float zoomSpeed =
    4.0f; // Speed of the camera
    going back and forth

    private Vector3 mouseOrigin;
    // Position of cursor when
    mouse dragging starts
    private bool isPanning;
    // Is the camera being
    panned?
    private bool isRotating;
    // Is the camera being
    rotated?
    private bool isZooming;
    // Is the camera zooming?

    //
    // UPDATE
    //

    void Update ()
{
    // Get the left mouse
    button

    if(Input.GetMouseButtonDo
wn(0))
    {
        // Get mouse
        origin
        mouseOrigin
        = Input.mousePosition;
        isRotating =
        true;
    }

    // Get the right mouse
    button

    if(Input.GetMouseButtonDo
wn(1))
    {
        // Get mouse
        origin
        mouseOrigin
        = Input.mousePosition;
        isPanning =
        true;
    }

    // Get the middle
    mouse button

    if(Input.GetMouseButtonDo
wn(2))
    {
        // Get mouse
        origin
        mouseOrigin
        = Input.mousePosition;
        isZooming =
        true;
    }
}

```

```

// Disable movements
on button release
    if
        (!Input.GetMouseButton(0))
            isRotating=false;
    if
        (!Input.GetMouseButton(1))
            isPanning=false;
    if
        (!Input.GetMouseButton(2))
            isZooming=false;

// Rotate camera along
X and Y axis
    if (isRotating)
    {
        Vector3 pos =
Camera.main.ScreenToWorldPoint(Input.mousePosition -
mouseOrigin);

        transform.RotateAround(transform.position, transform.right, -
pos.y * turnSpeed);

        transform.RotateAround(transform.position, Vector3.up, pos.x *
turnSpeed);
    }

// Move the camera on
it's XY plane
    if (isPanning)
    {
        Vector3 pos =
Camera.main.ScreenToWorldPoint(Input.mousePosition -
mouseOrigin);

        transform.Translate(move,
Space.Self);
    }

// Move the camera
linearly along Z axis
    if (isZooming)
    {
        Vector3 pos =
Camera.main.ScreenToWorldPoint(Input.mousePosition -
mouseOrigin);

        Vector3 move
= pos.y * zoomSpeed *
transform.forward;

        transform.Translate(move,
Space.World);
    }
}
}

```

LeanTweenDocumentationEditor

```

using UnityEngine;
using System.Collections;
#if UNITY_EDITOR
using UnityEditor;

public Class
LeanTweenDocumentationEditor :
Editor {

    [MenuItem
("Help/LeanTween
Documentation")]
    static void
openDocumentation()
    {

```

```

        #if !UNITY_3_5 &&
        !UNITY_4_0 && !UNITY_4_0_1
        && !UNITY_4_1 && !UNITY_4_2
        && !UNITY_4_3
            // Loops through all
            items in case the user has moved the
            default installation directory
            string[] guids =
            AssetDatabase.FindAssets
            ("LeanTween", null);
            string
            documentationPath = "";
            foreach (string guid in
            guids){
                string path =
                AssetDatabase.GUIDToAssetPath(g
                uid);

                if(path.IndexOf("classes/Lea
                nTween.html")>=0){

                    documentationPath = path;
                    break;

                }

                documentationPath =
                documentationPath.Substring(docum
                entationPath.IndexOf("/"));
                string browserPath =
                "file://" + Application.dataPath +
                documentationPath + "#index";

                Application.OpenURL(brows
                erPath);

                #else
                // assumes the default
                installation directory
                string
                documentationPath =
                "file://" + Application.dataPath +
                "/LeanTween/Documentation/classes
                /LeanTween.html#index";

                Application.OpenURL(docu
                mentationPath);
            }
        #endif

        [MenuItem
        ("Help/LeanTween Forum (ask
        questions)")]
        static void openForum()
        {

            Application.OpenURL("http:/
            /forum.Unity3d.com/threads/leantwe
            en-a-tweening-engine-that-is-up-to-
            5x-faster-than-competing-
            engines.161113/");
        }

        [MenuItem
        ("Help/LeanTween GitHub
        (contribute code)")]
        static void openGit()
        {

            Application.OpenURL("https
            ://github.com/dentedpixel/LeanTwee
            n");
        }

        [MenuItem
        ("Help/LeanTween Support
        (donate)")]
        static void openLTDonate()
        {

            Application.OpenURL("https
            ://www.paypal.com/cgi-
            bin/webscr?cmd=_s-
            xclick&hosted_button_id=YJPUT3R
            AK5VL8");
        }

        [MenuItem ("Help/Dented
        Pixel News")]
        static void openDPNews()
        {

```

```

        Application.OpenURL("http://
/dentedpixel.com/category/developer
-diary/");
    }
}
#endif

```

OldGUIExamplesCS

```

using UnityEngine;
using System.Collections;
using DentedPixel;

public Class OldGUIExamplesCS :
MonoBehaviour {
    public Texture2D grumpy;
    public Texture2D beauty;

    private float w;
    private float h;

    private LTRect buttonRect1;
    private LTRect buttonRect2;
    private LTRect buttonRect3;
    private LTRect buttonRect4;
    private LTRect grumpyRect;
    private LTRect
beautyTileRect;

    // Use this for initialization
    void Start () {
        w = Screen.width;
        h = Screen.height;
        buttonRect1 = new
LTRect(0.10f*w, 0.8f*h, 0.2f*w,
0.14f*h);
        buttonRect2 = new
LTRect(1.2f*w, 0.8f*h, 0.2f*w,
0.14f*h);
        buttonRect3 = new
LTRect(0.35f*w, 0.0f*h, 0.3f*w,
0.2f*h, 0f );
        buttonRect4 = new
LTRect(0.0f*w, 0.4f*h, 0.3f*w,
0.2f*h, 1.0f, 15.0f );

        grumpyRect = new
LTRect(0.5f*w - grumpy.width*0.5f,
0.5f*h - grumpy.height*0.5f,
grumpy.width, grumpy.height );
        beautyTileRect = new
LTRect(0.0f,0.0f,1.0f,1.0f );

        LeanTween.move(
buttonRect2, new Vector2(0.55f*w,
buttonRect2.rect.y), 0.7f
).setEase(LeanTweenType.easeOutQ
uad);
    }

    public void catMoved(){
        Debug.Log("cat
moved...");
    }

    // Update is called once per
frame
    void OnGUI () {
        GUI.DrawTexture(
grumpyRect.rect, grumpy);

        Rect staticRect = new
Rect(0.0f*w, 0.0f*h, 0.2f*w,
0.14f*h);
        if(GUI.Button(
staticRect, "Move Cat")){

            if(LeanTween.isTweening(gr

```

```
umpyRect)==false){ // Check to see
if the cat is already tweening, so it
doesn't freak out
```

```
Vector2 orig = new Vector2(
grumpyRect.rect.x,
grumpyRect.rect.y );
```

```
LeanTween.move(
grumpyRect, new Vector2(
1.0f*Screen.width - grumpy.width,
0.0f*Screen.height ),
1.0f).setEase(LeanTweenType.easeOutBounce).setOnComplete(catMoved );
```

```
LeanTween.move(
grumpyRect, orig, 1.0f
).setDelay(1.0f).setEase(
LeanTweenType.easeOutBounce);
    }
}
```

```
if(GUI.Button(buttonRect1.rect, "Scale Centered")){
```

```
LeanTween.scale(
buttonRect1, new
Vector2(buttonRect1.rect.width,
buttonRect1.rect.height) * 1.2f, 0.25f
).setEase(
LeanTweenType.easeOutQuad );
```

```
LeanTween.move(
buttonRect1, new
Vector2(buttonRect1.rect.x-
buttonRect1.rect.width*0.1f,
buttonRect1.rect.y-
buttonRect1.rect.height*0.1f), 0.25f
).setEase(LeanTweenType.easeOutQuad);
    }
```

```
if(GUI.Button(buttonRect2.rect, "Scale")){
```

```
LeanTween.scale(
buttonRect2, new
Vector2(buttonRect2.rect.width,
buttonRect2.rect.height) * 1.2f, 0.25f
).setEase(LeanTweenType.easeOutBounce);
    }
```

```
staticRect = new
Rect(0.76f*w, 0.53f*h, 0.2f*w,
0.14f*h);
```

```
if(GUI.Button(
staticRect, "Flip Tile")){
```

```
LeanTween.move(
beautyTileRect, new Vector2( 0f,
beautyTileRect.rect.y + 1.0f ), 1.0f
).setEase(LeanTweenType.easeOutBounce);
    }
```

```
GUI.DrawTextureWithTexCoords( new Rect(0.8f*w, 0.5f*h -
beauty.height*0.5f,
beauty.width*0.5f,
beauty.height*0.5f), beauty,
beautyTileRect.rect);
```

```
if(GUI.Button(buttonRect3.rect, "Alpha")){
```

```
LeanTween.alpha(
buttonRect3, 0.0f,
1.0f).setEase(LeanTweenType.easeOutQuad);
```

```
LeanTween.alpha(
buttonRect3, 1.0f,
```

```
1.0f).setDelay(1.0f).setEase(
LeanTweenType.easeInQuad);
```

```
LeanTween.alpha(
grumpyRect, 0.0f,
1.0f).setEase(LeanTweenType.easeOutQuad);
```

```
LeanTween.alpha(
grumpyRect, 1.0f,
1.0f).setDelay(1.0f).setEase(LeanTweenType.easeInQuad);
}
```

```
GUI.color = new
Color(1.0f,1.0f,1.0f,1.0f); // Reset to
normal alpha, otherwise other gui
elements will be effected
```

```
if(GUI.Button(buttonRect4.re
ct, "Rotate")){
```

```
LeanTween.rotate(
buttonRect4, 150.0f, 1.0f
).setEase(LeanTweenType.easeOutElastic);
```

```
LeanTween.rotate(
buttonRect4, 0.0f, 1.0f
).setDelay(1.0f).setEase(LeanTweenType.easeOutElastic);
}
```

```
GUI.matrix =
Matrix4x4.identity;
}
}
```

TestingPunch

```
using UnityEngine;
using System.Collections;
using DentedPixel;
```

```
public Class TestingPunch :
MonoBehaviour {
```

```
public AnimationCurve
exportCurve;
public float overShootValue = 1f;
```

```
private LTDescr descr;
```

```
void Start () {
```

```
//LeanTween.rotateAround(gameObj
ect,
gameObject.transform.rotation.euler
Angles, 360f,
5f).setDelay(1f).setEase(LeanTween
Type.easeOutBounce);
```

```
Debug.Log( "exported curve:" +
curveToString(exportCurve) );
}
```

```
void Update ()
{
LeanTween.dtManual =
Time.deltaTime;
if
(Input.GetKeyDown(KeyCode.Q))
{
```

```
//LeanTween.scale(this.gameObject,
Vector3.one*3f,
1.0f).setEase(LeanTweenType.easeS
pring).setUseManualTime(true);
//print("scale punch time
independent!");
```

```
LeanTween.moveLocalX(gameObjec
t, 5, 1).setOnComplete( () => {
```

```

        Debug.Log("on complete
move local X");

    }).setOnCompleteOnStart(true);

```

```

        GameObject light =
GameObject.Find("DirectionalLight"
);

```

```

        Light lt =
light.GetComponent<Light>();

```

```

LeanTween.value(lt.gameObject,
lt.intensity, 0.0f, 1.5f)

```

```

.setEase(LeanTweenType.linear)
.setLoopPingPong()
.setRepeat(-1)
.setOnUpdate((float val)=>{

```

```

    lt.intensity = val;
});

```

```

}
if
(Input.GetKeyDown(KeyCode.S))
{
    print("scale punch!");

```

```

        tweenStatically(
this.gameObject );

```

```

LeanTween.scale(this.gameObject,
new Vector3(1.15f, 1.15f, 1.15f),
0.6f);

```

```

LeanTween.rotateAround(this.game
Object, Vector3.forward, -360f,
0.3f).setOnComplete(() =>
{

```

```

LeanTween.rotateAround(this.game
Object, Vector3.forward, -360f,
0.4f).setOnComplete(() =>
{

```

```

LeanTween.scale(this.gameObject,
new Vector3(1f, 1f, 1f), 0.1f);

```

```

LeanTween.value(this.gameObject,
(v) =>
{

```

```

    }, 0, 1,
0.3f).setDelay(1);

```

```

});

```

```

});

```

```

}

```

```

if
(Input.GetKeyDown(KeyCode.T))
{

```

```

    Vector3[] pts = new
Vector3[] {new Vector3(-1f,0f,0f),
new Vector3(0f,0f,0f), new
Vector3(4f,0f,0f), new
Vector3(20f,0f,0f)};
    descr =

```

```

LeanTween.move(gameObject, pts,
15f).setOrientToPath(true).setDirecti
on(1f).setOnComplete( )=>{

```

```

    Debug.Log("move path
finished");
});
}

```

```

if

```

```

(Input.GetKeyDown(KeyCode.Y)) //
Reverse the move path

```

```

{
    descr.setDirection(-
descr.direction);
}

```

```

if

```

```

(Input.GetKeyDown(KeyCode.R))

```

```

        {
            //
            LeanTween.rotate(this.gameObject,
            Vector3.one,
            1.0f).setEase(LeanTweenType.punch
            );

            LeanTween.rotateAroundLocal(this.
            gameObject, this.transform.forward,
            -80f, 5.0f).setPoint(new
            Vector3(1.25f, 0f, 0f));
            print("rotate punch!");
        }

        if
        (Input.GetKeyDown(KeyCode.M))
        {
            //
            LeanTween.move(this.gameObject,
            new Vector3(0f,0f,1f),
            1.0f).setEase(LeanTweenType.punch
            );

            print("move punch!");
            Time.timeScale = 0.25f;
            float start =
            Time.realtimeSinceStartup;
            LeanTween.moveX(
            this.gameObject, 1f,
            1f).setOnComplete( destroyOnComp
            ).setOnCompleteParam(
            this.gameObject ).setOnComplete(
            )=>{
                float end =
                Time.realtimeSinceStartup;
                float diff = end - start;
                Debug.Log("start:"+start+"
                end:"+end+" diff:"+diff+"
                x:"+this.gameObject.transform.positi
                on.x);

            }).setEase(LeanTweenType.easeInB
            ack).setOvershoot( overShootValue
            ).setPeriod(0.3f);
        }

```

```

        if
        (Input.GetKeyDown(KeyCode.C))
        {
            LeanTween.color(
            this.gameObject, new Color(1f, 0f,
            0f, 0.5f), 1f);

            Color to = new
            Color(Random.Range(0f,1f),0f,Rand
            om.Range(0f,1f),0.0f);
            GameObject l =
            GameObject.Find("LCharacter");
            LeanTween.color( l, to, 4.0f
            ).setLoopPingPong(1).setEase(Lean
            TweenType.easeOutBounce);
        }

        if
        (Input.GetKeyDown(KeyCode.E))
        {

            LeanTween.delayedCall(gameObject
            ,0.3f,
            delayedMethod).setRepeat(4).setOn
            CompleteOnRepeat(true).setOnCom
            pleteParam( "hi" );
        }

        if
        (Input.GetKeyDown(KeyCode.V))
        {
            LeanTween.value(
            gameObject, updateColor, new
            Color(1.0f,0.0f,0.0f,1.0f), Color.blue,
            4.0f
            );//.setRepeat(2).setLoopPingPong().
            setEase(LeanTweenType.easeOutBo
            unce);
        }

        if
        (Input.GetKeyDown(KeyCode.P))
        {

            LeanTween.delayedCall(0.05f,

```

```

enterMiniGameStart).setOnComplete
Param( new object[] {""+5} );
    }

if(Input.GetKeyDown(KeyCode.U))
{
    #if !UNITY_FLASH

LeanTween.value(gameObject,
(Vector2 val)=>{
    // Debug.Log("tweening
vec2 val:"+val);
    transform.position = new
Vector3(val.x, transform.position.y,
transform.position.z);
    }, new Vector2(0f,0f), new
Vector2(5f,100f), 1f
).setEase(LeanTweenType.easeOutB
ounce);

    GameObject l =
GameObject.Find("LCharacter");

    Debug.Log("x:"+l.transform.position
.x+" y:"+l.transform.position.y);
    LeanTween.value(l, new
Vector2( l.transform.position.x,
l.transform.position.y), new Vector2(
l.transform.position.x,
l.transform.position.y+5), 1f
).setOnUpdate(
    (Vector2 val)=>{
        Debug.Log("tweening
vec2 val:"+val);
        l.transform.position = new
Vector3(val.x, val.y,
transform.position.z);
    }

    );
    #endif
}
}

```

```

static void tweenStatically(
GameObject gameObject ){
    Debug.Log("Starting to
tween...");
    LeanTween.value(gameObject,
(val)=>{
        Debug.Log("tweening
val:"+val);
        }, 0f, 1f, 1f);
    }

void enterMiniGameStart( object
val ){
    object[] arr = (object [])val;
    int lvl =
int.Parse((string)arr[0]);
    Debug.Log("level:"+lvl);
    }

void updateColor( Color c ){
    GameObject l =
GameObject.Find("LCharacter");
    // Debug.Log("new col:"+c);

    l.GetComponent<Renderer>().materi
al.color = c;
    }

void delayedMethod( object
myVal ){
    string castBack = myVal as
string;
    Debug.Log("delayed
call:"+Time.time +"
myVal:"+castBack);
    }

void destroyOnComp( object p ){
    GameObject g = (GameObject)p;
    Destroy( g );
    }

string curveToString(
AnimationCurve curve) {
    string str = "";

```

```

        for(int i = 0; i < curve.length;
i++){
            str += "new
Keyframe("+curve[i].time+"f,
"+curve[i].value+"f");
            if(i<curve.length-1)
                str += ", ";
        }
        return "new AnimationCurve(
"+str+" )";
    }
}

```

TestingRigidbodyCS

```

using UnityEngine;
using System.Collections;
using DentedPixel;

public Class TestingRigidbodyCS :
MonoBehaviour {

    private GameObject ball1;
    // Use this for initialization
    void Start () {
        ball1 =
GameObject.Find("Sphere1");

        LeanTween.rotateAround(
ball1, Vector3.forward, -90f, 1.0f);

        LeanTween.move(
ball1, new Vector3(2f,0f,7f),
1.0f).setDelay(1.0f).setRepeat(-1);
    }

    // Update is called once per
frame
    void Update () {

    }
}

```

Following

```

using System.Collections;
using System.Collections.Generic;
using UnityEngine;

public Class Following :
MonoBehaviour {

    public Transform planet;

    public Transform followArrow;

    public Transform dude1;
    public Transform dude2;

    public Transform dude3;
    public Transform dude4;
    public Transform dude5;

    public Transform dude1Title;
    public Transform dude2Title;
    public Transform dude3Title;
    public Transform dude4Title;
    public Transform dude5Title;

    private Color dude1ColorVelocity;

    private Vector3 velocityPos;
}

```

```

private void Start()
{

followArrow.gameObject.LeanDelayedCall(3f,
moveArrow).setOnStart(moveArrow).setRepeat(-1);

// Follow Local Y Position of Arrow

LeanTween.followDamp(dude1, followArrow, LeanProp.localY, 1.1f);

LeanTween.followSpring(dude2, followArrow, LeanProp.localY, 1.1f);

LeanTween.followBounceOut(dude3, followArrow, LeanProp.localY, 1.1f);

LeanTween.followSpring(dude4, followArrow, LeanProp.localY, 1.1f, -1f, 1.5f, 0.8f);

LeanTween.followLinear(dude5, followArrow, LeanProp.localY, 50f);

// Follow Arrow color

LeanTween.followDamp(dude1, followArrow, LeanProp.color, 1.1f);

LeanTween.followSpring(dude2, followArrow, LeanProp.color, 1.1f);

LeanTween.followBounceOut(dude3, followArrow, LeanProp.color, 1.1f);

LeanTween.followSpring(dude4, followArrow, LeanProp.color, 1.1f, -1f, 1.5f, 0.8f);

LeanTween.followLinear(dude5, followArrow, LeanProp.color, 0.5f);

// Follow Arrow scale

LeanTween.followDamp(dude1, followArrow, LeanProp.scale, 1.1f);

LeanTween.followSpring(dude2, followArrow, LeanProp.scale, 1.1f);

LeanTween.followBounceOut(dude3, followArrow, LeanProp.scale, 1.1f);

LeanTween.followSpring(dude4, followArrow, LeanProp.scale, 1.1f, -1f, 1.5f, 0.8f);

LeanTween.followLinear(dude5, followArrow, LeanProp.scale, 5f);

// Titles
var titleOffset = new Vector3(0.0f, -20f, -18f);

LeanTween.followDamp(dude1Title, dude1, LeanProp.localPosition, 0.6f).setOffset(titleOffset);

LeanTween.followSpring(dude2Title, dude2, LeanProp.localPosition, 0.6f).setOffset(titleOffset);

LeanTween.followBounceOut(dude3Title, dude3, LeanProp.localPosition, 0.6f).setOffset(titleOffset);

LeanTween.followSpring(dude4Title, dude4, LeanProp.localPosition, 0.6f, -1f, 1.5f, 0.8f).setOffset(titleOffset);

LeanTween.followLinear(dude5Title,

```

```
, dude5, LeanProp.localPosition,
30f).setOffset(titleOffset);

    // Rotate Planet
    var localPos =
Camera.main.transform.InverseTrans
formPoint(planet.transform.position)
;

LeanTween.rotateAround(Camera.m
ain.gameObject, Vector3.left, 360f,
300f).setPoint(localPos).setRepeat(-
1);
}

private float fromY;
private float velocityY;
private Vector3 fromVec3;
private Vector3 velocityVec3;
private Color fromColor;
private Color velocityColor;

private void Update()
{
    // Use the smooth methods to
follow variables in which ever
manner you wish!
    fromY =
LeanSmooth.spring(fromY,
followArrow.localPosition.y, ref
velocityY, 1.1f);
    fromVec3 =
LeanSmooth.spring(fromVec3,
```

```
dude5Title.localPosition, ref
velocityVec3, 1.1f);
    fromColor =
LeanSmooth.spring(fromColor,
dude1.GetComponent<Renderer>().
material.color, ref velocityColor,
1.1f);
    Debug.Log("Smoothed y:" +
fromY + " vec3:" + fromVec3 + "
color:" + fromColor);
}

    private void moveArrow()
    {

LeanTween.moveLocalY(followArro
w.gameObject, Random.Range(-
100f, 100f), 0f);

        var randomCol = new
Color(Random.value, Random.value,
Random.value);

LeanTween.color(followArrow.game
Object, randomCol, 0f);

        var randomVal =
Random.Range(5f, 10f);
        followArrow.localScale =
Vector3.one * randomVal;
    }
}
```

LeanAudioStream

```
using UnityEngine;
using System.Collections.Generic;

public Class LeanAudioStream {

    public int position = 0;

    public AudioClip audioClip;
```

```
    public float[] audioArr;

    public LeanAudioStream(
float[] audioArr ){
        this.audioArr =
audioArr;
    }
}
```

```

        public void
OnAudioRead(float[] data) {
    int count = 0;
    while (count < data.Length) {
        data[count] =
audioArr[this.position];
        position++;
        count++;
    }
}

    public void
OnAudioSetPosition(int
newPosition) {
        this.position = newPosition;
    }
}

/**
 * Create Audio dynamically and
easily playback
 */
 * @Class LeanAudio
 * @constructor
 */
public Class LeanAudio : object {

    public static float
MIN_FREQEUNCY_PERIOD =
0.000115f;
    public static int
PROCESSING_ITERATIONS_MA
X = 50000;
    public static float[]
generatedWaveDistances;
    public static int
generatedWaveDistancesCount = 0;

    private static float[] longList;

    public static
LeanAudioOptions options(){

        if(generatedWaveDistances=
=null){

```

```

        generatedWaveDistances =
new float[
PROCESSING_ITERATIONS_MA
X ];
        longList =
new float[
PROCESSING_ITERATIONS_MA
X ];
    }
    return new
LeanAudioOptions();
}

    public static
LeanAudioStream
createAudioStream( AnimationCurve
volume, AnimationCurve frequency,
LeanAudioOptions options = null ){
        if(options==null)
            options = new
LeanAudioOptions();

        options.useSetData =
false;

        int
generatedWavePtsLength =
createAudioWave( volume,
frequency, options);

        createAudioFromWave(
generatedWavePtsLength, options );

        return options.stream;
    }

/**
 * Create dynamic audio from
a set of Animation Curves and other
options.
 *
 * @method createAudio
 * @param
{AnimationCurve}
volumeCurve:AnimationCurve

```

describing the shape of the audios volume (from 0-1). The length of the audio is dictated by the end value here.

```
* @param
{ AnimationCurve }
frequencyCurve: AnimationCurve
describing the width of the
oscillations between the sound waves
in seconds. Large numbers mean a
lower note, while higher numbers
mean a tighter frequency and
therefor a higher note. Values are
usually between 0.01 and 0.000001
(or smaller)
```

```
* @param
{ LeanAudioOptions }
options: LeanAudioOptions You can
pass any other values in here like
vibrato or the frequency you would
like the sound to be encoded at. See
LeanAudioOptions.html for more details.
```

```
* @return { AudioClip }
AudioClip of the procedurally
generated audio
```

```
* @example
* AnimationCurve
volumeCurve = new
AnimationCurve( new Keyframe(0f,
1f, 0f, -1f), new Keyframe(1f, 0f, -1f,
0f));<br>
```

```
* AnimationCurve
frequencyCurve = new
AnimationCurve( new Keyframe(0f,
0.003f, 0f, 0f), new Keyframe(1f,
0.003f, 0f, 0f));<br>
```

```
* AudioClip audioClip =
LeanAudio.createAudio(volumeCurve,
frequencyCurve,
LeanAudio.options().setVibrato( new
Vector3[] { new
Vector3(0.32f, 0f, 0f) } ));<br>
```

```
*/
```

```
public static AudioClip
createAudio( AnimationCurve
volume, AnimationCurve frequency,
LeanAudioOptions options = null ){
    if(options==null)
        options = new
LeanAudioOptions();
```

```
    int
generatedWavePtsLength =
createAudioWave( volume,
frequency, options);
    //
    Debug.Log("generatedWavePtsLength: "+generatedWavePtsLength);
    return
createAudioFromWave(
generatedWavePtsLength, options );
}
```

```
private static int
createAudioWave( AnimationCurve
volume, AnimationCurve frequency,
LeanAudioOptions options ){
    float time = volume[
volume.length - 1 ].time;
    int listLength = 0;
    // List<float> list =
new List<float>();
```

```
    //
    generatedWaveDistances = new
List<float>();
    // float[]
vibratoValues = new float[
vibrato.Length ];
    float passed = 0f;
    for(int i = 0; i <
PROCESSING_ITERATIONS_MAX; i++){
        float f =
frequency.Evaluate(passed);

        if(f<MIN_FREQUENCY_PERIOD)
```

```

                                f =
MIN_FREQEUNCY_PERIOD;                                }else{
                                float height =
volume.Evaluate(passed + 0.5f*f);                                int
                                distPoint = listLength / 2;

                                //generatedWaveDistances.A
                                dd( f );
                                passed
                                += f;

                                generatedWaveDistances[
distPoint ] = passed;

                                //Debug.Log("distPoint:"+dis
tPoint+" passed:"+passed);

                                //list.Add( passed );

                                //list.Add( i%2==0 ? -height :
height );

                                longList[ listLength ] =
passed;

                                longList[ listLength + 1 ] =
i%2==0 ? -height : height;
                                }

                                listLength +=
2;

                                }

                                listLength += -2;

                                generatedWaveDistancesCou
nt = listLength / 2;

                                /*float[] wave = new
float[ listLength ];

```

```

                                f =
MIN_FREQEUNCY_PERIOD;
                                float height =
volume.Evaluate(passed + 0.5f*f);

                                if(options.vibrato!=null){
                                    for(int
j=0; j<options.vibrato.Length; j++){

                                        float peakMulti = Mathf.Abs(
Mathf.Sin( 1.5708f + passed *
(1f/options.vibrato[j][0]) * Mathf.PI
) );

                                        float diff = (1f-
options.vibrato[j][1]);

                                        peakMulti =
options.vibrato[j][1] +
diff*peakMulti;

                                        height *= peakMulti;
                                    }

                                //
Debug.Log("i:"+i+" f:"+f+"
passed:"+passed+" height:"+height+"
time:"+time);
                                if(passed +
0.5f*f>=time)
                                    break;
                                if(listLength
>=
PROCESSING_ITERATIONS_MA
X-1){

                                    Debug.LogError("LeanAudio
has reached it's processing cap. To
avoid this error increase the number
of iterations ex:
LeanAudio.PROCESSING_ITERAT
IONS_MAX =
"+(PROCESSING_ITERATIONS_
MAX*2));

```

```

        for(int i = 0; i <
wave.Length; i++){
            wave[i] =
longList[i];
        }*/
        return listLength;
    }

    private static AudioClip
createAudioFromWave( int
waveLength, LeanAudioOptions
options ){
        float time = longList[
waveLength - 2 ];
        float[] audioArr =
new float[
(int)(options.frequencyRate*time) ];

        int waveIter = 0;
        float subWaveDiff =
longList[waveIter];
        float
subWaveTimeLast = 0f;
        float subWaveTime =
longList[waveIter];
        float waveHeight =
longList[waveIter+1];
        for(int i = 0; i <
audioArr.Length; i++){
            float
passedTime = (float)i /
(float)options.frequencyRate;
            if(passedTime
> longList[waveIter] ){

                subWaveTimeLast =
longList[waveIter];

                waveIter += 2;

                subWaveDiff =
longList[waveIter] -
longList[waveIter-2];

                waveHeight =
longList[waveIter+1];

```

```

//
Debug.Log("passed wave i:"+i);
        }
        subWaveTime
= passedTime - subWaveTimeLast;
        float
ratioElapsed = subWaveTime /
subWaveDiff;

        float value =
Mathf.Sin( ratioElapsed * Mathf.PI
);

        if(options.waveStyle==Lean
AudioOptions.LeanAudioWaveStyle
.Square){

            if(value>0f)

                value = 1f;

            if(value<0f)

                value = -1f;

        }else
if(options.waveStyle==LeanAudioO
ptions.LeanAudioWaveStyle.Sawtoo
th){

            float
sign = value > 0f ? 1f : -1f;

            if(ratioElapsed<0.5f){

                value =
(ratioElapsed*2f)*sign;

            }else{

                // 0.5f - 1f

                value = (1f -
ratioElapsed)*2f*sign;

            }

        }else
if(options.waveStyle==LeanAudioO
ptions.LeanAudioWaveStyle.Noise){

```

```

float
peakMulti = (1f-
options.waveNoiseInfluence) +
Mathf.PerlinNoise(0f, passedTime *
options.waveNoiseScale ) *
options.waveNoiseInfluence;

/*if(i<25){

    Debug.Log("passedTime:"+p
assedTime+"
peakMulti:"+peakMulti+"
infl:"+options.waveNoiseInfluence);
}*/

value
*= peakMulti;
}

//if(i<25)
//
    Debug.Log("passedTime:"+p
assedTime+" value:"+value+"
ratioElapsed:"+ratioElapsed+"
subWaveTime:"+subWaveTime+"
subWaveDiff:"+subWaveDiff);

value *=
waveHeight;

if(options.modulation!=null){
    for(int
k=0; k<options.modulation.Length;
k++){

        float peakMulti = Mathf.Abs(
Mathf.Sin( 1.5708f + passedTime *
(1f/options.modulation[k][0]) *
Mathf.PI ) );

        float diff = (1f-
options.modulation[k][1]);

```

```

peakMulti =
options.modulation[k][1] +
diff*peakMulti;

// if(k<10){

    // Debug.Log("k:"+k+"
peakMulti:"+peakMulti+"
value:"+value+"
after:"+(value*peakMulti));

// }

value *= peakMulti;
}

audioArr[i] =
value;

//
Debug.Log("pt:"+pt+" i:"+i+"
val:"+audioArr[i]+"
len:"+audioArr.Length);
}

int lengthSamples =
audioArr.Length;

#if UNITY_3_5 ||
UNITY_4_0 || UNITY_4_0_1 ||
UNITY_4_1 || UNITY_4_2 ||
UNITY_4_3 || UNITY_4_5 ||
UNITY_4_6 || UNITY_4_7
    bool is3dSound =
false;

    AudioClip audioClip
= AudioClip.Create("Generated
Audio", lengthSamples, 1,
options.frequencyRate, is3dSound,
false);

#else
    AudioClip audioClip
= null;

```

```

        if(options.useSetData){
            audioClip =
AudioClip.Create("Generated
Audio", lengthSamples, 1,
options.frequencyRate, false, null,
OnAudioSetPosition);

            audioClip.SetData(audioArr,
0);
        }else{
            options.stream
= new LeanAudioStream(audioArr);
            //
Debug.Log("len:"+audioArr.Length+
" lengthSamples:"+lengthSamples+"
freqRate:"+options.frequencyRate);
            audioClip =
AudioClip.Create("Generated
Audio", lengthSamples, 1,
options.frequencyRate, false,
options.stream.OnAudioRead,
options.stream.OnAudioSetPosition);

            options.stream.audioClip =
audioClip;
        }

        #endif

        return audioClip;
    }

    private static void
OnAudioSetPosition(int
newPosition) {

    }

    public static AudioClip
generateAudioFromCurve(
AnimationCurve curve, int
frequencyRate = 44100 ){
        float curveTime =
curve[ curve.length - 1 ].time;

        float time =
curveTime;

        float[] audioArr =
new float[ (int)(frequencyRate*time)
];

        //
Debug.Log("curveTime:"+curveTim
e+"
AudioSettings.outputSampleRate:"+
AudioSettings.outputSampleRate);
        for(int i = 0; i <
audioArr.Length; i++){
            float pt =
(float)i / (float)frequencyRate;
            audioArr[i] =
curve.Evaluate( pt );
            //
Debug.Log("pt:"+pt+" i:"+i+"
val:"+audioArr[i]+"
len:"+audioArr.Length);
        }

        int lengthSamples =
audioArr.Length;//(int)(
(float)frequencyRate * curveTime );
        #if UNITY_3_5 ||
UNITY_4_0 || UNITY_4_0_1 ||
UNITY_4_1 || UNITY_4_2 ||
UNITY_4_3 || UNITY_4_5 ||
UNITY_4_6 || UNITY_4_7
        bool is3dSound =
false;

        AudioClip audioClip
= AudioClip.Create("Generated
Audio", lengthSamples, 1,
frequencyRate, is3dSound, false);
        #else
        AudioClip audioClip
= AudioClip.Create("Generated
Audio", lengthSamples, 1,
frequencyRate, false);
        #endif

        audioClip.SetData(audioArr,
0);

```

```

        return audioClip;
    }

    public static AudioSource
play( AudioClip audio, float volume
){
    AudioSource
audioSource = playClipAt(audio,
Vector3.zero);
    audioSource.volume
= volume;
    return audioSource;
}

    public static AudioSource
play( AudioClip audio ){
        return playClipAt(
audio, Vector3.zero );
    }

    public static AudioSource
play( AudioClip audio, Vector3 pos
){
        return playClipAt(
audio, pos );
    }

    public static AudioSource
play( AudioClip audio, Vector3 pos,
float volume ){
        // Debug.Log("audio
length:"+audio.length);
        AudioSource
audioSource = playClipAt(audio,
pos);

        audioSource.minDistance =
1f;
        //audioSource.pitch =
pitch;
        audioSource.volume
= volume;

        return audioSource;
    }

```

```

        public static AudioSource
playClipAt( AudioClip clip, Vector3
pos ) {
            GameObject tempGO
= new GameObject(); // create the
temp object

            tempGO.transform.position =
pos; // set its position
            AudioSource aSource
=
tempGO.AddComponent<AudioSou
rce>(); // add an audio source
            aSource.clip = clip; //
define the clip
            aSource.Play(); // start
the sound

            GameObject.Destroy(tempG
O, clip.length); // destroy object after
clip duration
            return aSource; //
return the AudioSource reference
        }

        public static void
printOutAudioClip( AudioClip
audioClip, ref AnimationCurve
curve, float scaleX = 1f ){
            // Debug.Log("Audio
channels:"+audioClip.channels+"
frequency:"+audioClip.frequency+"
length:"+audioClip.length+"
samples:"+audioClip.samples);
            float[] samples = new
float[audioClip.samples *
audioClip.channels];
            audioClip.GetData(samples, 0);
            int i = 0;

            Keyframe[] frames = new
Keyframe[samples.Length];
            while (i < samples.Length) {
                frames[i] = new Keyframe(
(float)i * scaleX, samples[i] );
            }
        }

```

```

        ++i;
    }
    curve = new AnimationCurve(
frames );
    }
}

/**
 * Pass in options to LeanAudio
 *
 * @Class LeanAudioOptions
 * @constructor
 */
public Class LeanAudioOptions :
object {

    public enum
LeanAudioWaveStyle{
        Sine,
        Square,
        Sawtooth,
        Noise
    }

    public LeanAudioWaveStyle
waveStyle =
LeanAudioWaveStyle.Sine;
    public Vector3[] vibrato;
    public Vector3[] modulation;
    public int frequencyRate =
44100;
    public float waveNoiseScale
= 1000;
    public float
waveNoiseInfluence = 1f;

    public bool useSetData =
true;
    public LeanAudioStream
stream;

    public
LeanAudioOptions(){ }

/**

```

```

        * Set the frequency for the
audio is encoded. 44100 is CD
quality, but you can usually get away
with much lower (or use a lower
amount to get a more 8-bit sound).
        *
        * @method setFrequency
        * @param {int}
frequencyRate:int of the frequency
you wish to encode the AudioClip at
        * @return
{LeanAudioOptions}
LeanAudioOptions describing
optional values
        * @example
        * AnimationCurve
volumeCurve = new
AnimationCurve( new Keyframe(0f,
1f, 0f, -1f), new Keyframe(1f, 0f, -1f,
0f));<br>
        * AnimationCurve
frequencyCurve = new
AnimationCurve( new Keyframe(0f,
0.003f, 0f, 0f), new Keyframe(1f,
0.003f, 0f, 0f));<br>
        * AudioClip audioClip =
LeanAudio.createAudio(volumeCurv
e, frequencyCurve,
LeanAudio.options().setVibrato( new
Vector3[] { new
Vector3(0.32f,0f,0f)}
).setFrequency(12100) );<br>
        */
    public LeanAudioOptions
setFrequency( int frequencyRate ){
        this.frequencyRate =
frequencyRate;
        return this;
    }

/**
        * Set details about the shape
of the curve by adding vibrato
modulations through it (alters the
peak values giving it a wah-wah
effect). You can add as many as you

```

want to sculpt out more detail in the sound wave.

```

        *
        * @method setVibrato
        * @param {Vector3[]}
        vibratoArray:Vector3[] The first
        value is the period in seconds that
        you wish to have the vibrato wave
        fluctuate at. The second value is the
        minimum height you wish the
        vibrato wave to dip down to (default
        is zero). The third is reserved for
        future effects.
        * @return
        {LeanAudioOptions}
        LeanAudioOptions describing
        optional values
        * @example
        * AnimationCurve
        volumeCurve = new
        AnimationCurve( new Keyframe(0f,
        1f, 0f, -1f), new Keyframe(1f, 0f, -1f,
        0f));<br>
        * AnimationCurve
        frequencyCurve = new
        AnimationCurve( new Keyframe(0f,
        0.003f, 0f, 0f), new Keyframe(1f,
        0.003f, 0f, 0f));<br>
        * AudioClip audioClip =
        LeanAudio.createAudio(volumeCurve,
        frequencyCurve,
        LeanAudio.options().setVibrato( new
        Vector3[] { new
        Vector3(0.32f,0.3f,0f)}
        ).setFrequency(12100) );<br>
        */
        public LeanAudioOptions
        setVibrato( Vector3[] vibrato ){
            this.vibrato = vibrato;
            return this;
        }

        /*
        public LeanAudioOptions
        setModulation( Vector3[]
        modulation ){

```

```

            this.modulation =
        modulation;
            return this;
        }*/

        public LeanAudioOptions
        setWaveSine(){
            this.waveStyle =
            LeanAudioWaveStyle.Sine;
            return this;
        }

        public LeanAudioOptions
        setWaveSquare(){
            this.waveStyle =
            LeanAudioWaveStyle.Square;
            return this;
        }

        public LeanAudioOptions
        setWaveSawtooth(){
            this.waveStyle =
            LeanAudioWaveStyle.Sawtooth;
            return this;
        }

        public LeanAudioOptions
        setWaveNoise(){
            this.waveStyle =
            LeanAudioWaveStyle.Noise;
            return this;
        }

        public LeanAudioOptions
        setWaveStyle( LeanAudioWaveStyle
        style ){
            this.waveStyle =
            style;
            return this;
        }

        public LeanAudioOptions
        setWaveNoiseScale( float waveScale
        ){

```

```

        this.waveNoiseScale
    = waveScale;
        return this;
    }

    public LeanAudioOptions
setWaveNoiseInfluence( float
influence ){
        this.waveNoiseInfluence =
influence;
        return this;
    }
}

```

PopUp

```

using System.Collections;
using System.Collections.Generic;
using UnityEngine;

public Class PopUp :
MonoBehaviour
{
    public Canvas cow;
    public Canvas goat;
    public Canvas wolf;
    public Canvas goose;
    public Canvas shark;
    public Canvas chicken;
    public Canvas panduan;
    public Canvas creator;
    public Canvas tanya;

    public bool a = false;
    public bool b = false;
    public bool c = false;
    public bool d = false;
    public bool e = false;
    public bool f = false;
    public bool g = false;
    public bool h = false;
    public bool i = false;

    public void sapi()
    {
        if (a == false)
        {
            a = true;
            cow.enabled = true;
        }
        else if (a == true)
        {
            a = false;
            cow.enabled = false;
        }

        public void kambing()
        {
            if (b == false)
            {
                b = true;
                goat.enabled = true;
            }
            else if (b == true)
            {
                b = false;
                goat.enabled = false;
            }
        }

        public void serigala()
        {
            if (c == false)
            {
                c = true;
                wolf.enabled = true;
            }
            else if (c == true)
            {

```

```

        c = false;
        wolf.enabled = false;
    }
}

public void angsa()
{
    if (d == false)
    {
        d = true;
        goose.enabled = true;
    }
    else if (d == true)
    {
        d = false;
        goose.enabled = false;
    }
}

public void hiu()
{
    if (e == false)
    {
        e = true;
        shark.enabled = true;
    }
    else if (e == true)
    {
        e = false;
        shark.enabled = false;
    }
}

public void ayam()
{
    if (f == false)
    {
        f = true;
        chicken.enabled = true;
    }
    else if (f == true)
    {
        f = false;

```

```

        chicken.enabled = false;
    }
}

public void poppanduan()
{
    if (g == false)
    {
        g = true;
        panduan.enabled = true;
    }
    else if (g == true)
    {
        g = false;
        panduan.enabled = false;
    }
}

public void popcreator()
{
    if (h == false)
    {
        h = true;
        creator.enabled = true;
    }
    else if (h == true)
    {
        h = false;
        creator.enabled = false;
    }
}

public void poptanya()
{
    if (i == false)
    {
        i = true;
        tanya.enabled = true;
    }
    else if (i == true)
    {
        i = false;
        tanya.enabled = false;

```

```

    }
}
}

```

ScaleInOut

```

using System.Collections;
using System.Collections.Generic;
using UnityEngine;

public Class ScaleInOut :
MonoBehaviour
{
    public GameObject Object;

    private bool _ZoomIn;
    private bool _ZoomOut;

    //object scale speed
    public float Scale = 0.1f;

    // Update is called once per frame
    void Update()
    {
        if (_ZoomIn)
        {
            //make a bigger object
            Object.transform.localScale
+= new Vector3(Scale, Scale, Scale);
        }

        if (_ZoomOut)
        {
            //make a small object
            Object.transform.localScale -
= new Vector3(Scale, Scale, Scale);
        }
    }

    //Make object scaled big
    public void OnPressZoomIn()
    {
        _ZoomIn = true;
    }

    public void OnReleaseZoomIn()

```