Code Structure & Standards

▼ Referencing

▼ How to do it Properly

- · Follow the rules of the License that comes with the code you are copying
 - o Give Credit ALWAYS regardless if the creator says so or not
 - o Follow the rules of the License
 - o For more information visit the links below:
 - https://www.patrick-wied.at/blog/how-to-correctly-use-code-you-didnt-write
- · Credit the original developer properly by referencing the developer and source in your ReadMe
 - You can also add comments in your code where you use the algorithm or feature you researched

▼ Referencing Guidance

▼ Referencing an Algorithm from GitHub, etc

- · Make sure you follow the rules of the License if there is one
- You can always give credit to the developer by adding a comment above the class that uses the algorithm or a variation there of

```
// Title: GraphicsDrawer source code
// Author: Smith, J
// Date: 2011
// Code version: 2.0
// Availability: https://www.graphicsdrawer.com/
```

▼ Referencing Code from StackOverflow, Blogs, etc

▼ Example 1 - Method Comment

```
/// <summarv>
/// Rotate Tile on Z Axis using Lerp<br/>
/// Implementation for Lerp taken from:<br/>
///\ https://gamedevbeginner.com/the-right-way-to-lerp-in-unity-with-examples/\#right\_way\_to\_use\_lerp<br/>sr/>
/// </summary>
/// <param name="a">Start Value</param>
/// <param name="b">Target Value</param>
/// <returns></returns>
private IEnumerator RotateTileRoutine(float a, float b)
    // PRE COROUTINE - SETUP FOR COROUTINE
    float elapsedTimed = 0f;
    float zRotation = 0f;
    while (elapsedTimed < TimeToLerp)
        float t = elapsedTimed / TimeToLerp;
t = t * t * (3f - 2f * t); // Easing Function
        zRotation = Mathf.LerpAngle(a, b, t);
        transform.rotation = Quaternion.Euler(0f, 0f, zRotation);
        elapsedTimed += Time.deltaTime;
        yield return null;
    // POST COROUTINE - AFTER THE COROUTINE EXECUTED
    transform.rotation = Quaternion.Euler(0f, 0f, b);
```

```
yield return _delay;
StartCoroutine(RotateTileRoutine(b, a));
}
```

▼ Example 2 - Inline Comment

```
/// <summary>
/// Rotate Tile on Z Axis using Lerp<br/>
/// </summary>
/// <param name="a">Start Value</param>
/// <param name="b">Target Value</param>
/// <returns></returns>
private IEnumerator RotateTileRoutine(float a, float b)
    // The Right Way to Lerp in Unity with Examples by John
   // https://gamedevbeginner.com/the-right-way-to-lerp-in-unity-with-examples/#right_way_to_use_lerp<br/>br/>
   // PRE COROUTINE - SETUP FOR COROUTINE
    float elapsedTimed = 0f;
    float zRotation = Of;
    while (elapsedTimed < TimeToLerp)
        // COROUTINE
       float t = elapsedTimed / TimeToLerp;
        t = t * t * (3f - 2f * t); // Easing Function
       zRotation = Mathf.LerpAngle(a, b, t);
       transform.rotation = Quaternion.Euler(0f, 0f, zRotation);
        elapsedTimed += Time.deltaTime:
       yield return null;
   // POST COROUTINE - AFTER THE COROUTINE EXECUTED
   transform.rotation = Quaternion.Euler(0f, 0f, b);
   yield return _delay;
    StartCoroutine(RotateTileRoutine(b, a));
```

▼ Example 3 - Inline Comment

```
// (c) 2022 [copyright holder]
// This code is licensed under [license] (see LICENSE.txt for details)
// (source name)[link]
```

▼ Referencing in the Readme

```
# Project Name
Short Description

# References
## Lerping in Unity - by John
[The Right Way to Lerp in Unity with Examples](https://gamedevbeginner.com/the-right-way-to-lerp-in-unity-with-examples/#ri
```

▼ Referencing your own work

```
// (c) [year] by [copyright holder]
// This code is licensed under [license] (see LICENSE.txt for details)
// Link
```

▼ Code Standards and Structure

▼ Standards

▼ Personal Standard of Uee

```
using System.Collections;
using System.Collections.Generic;
using System.Data.SqlClient;
using UnityEngine;
namespace Adventure
    /// <summary>
    /// Interfaces should always Start with the Letter I
    /// </summary>
    public interface IMyInterface
    /// <summary>
    /// You can suffix abstract classes with the word Base /// </summary>
    public abstract class SomethingBase
    /// <summary>
    /// Class names should always be PascalCase
    /// </summary>
    public class PersonalStandard : MonoBehaviour
        #region VARIABLES
        // \ {\tt Public \ fields \ could \ be \ either \ PascalCase \ or \ {\tt camelCase}. \ Choose \ one \ design \ and \ stick \ with \ it}
        public string MyPublicField;
        // Private fields should be either \_camelCase or just camelCase
        private string _myPrivateField;
        // Creating Constant Fields
        public const int MIN_AGE = 18;
        #endregion
        #region PROPERTIES
        /// <summary>
        /// </summary>
        \hbox{public string MyPrivateField}\\
            get => _myPrivateField;
set => _myPrivateField = value;
        #endregion
        #region UNITY METHODS
        #endregion
        #region METHODS
        /// <summary>
        /// Method names should always be PascalCase
        /// </summary>
        public void MyMethod()
        /// <summary>
        /// Parameter names should always be camelCase
        /// </summarv>
        /// <param name="parameterA"></param>
        /// <param name="parameterB"></param>
        public void MyMethodWithParameters(string parameterA, string parameterB)
        public void MyMethodWithDefaultParameters(string parameterA, string parameterB = "ParameterB")
        public void OneLinerMethod() => print("Hello");
        public void OnLinerMethodWithParameters(string parameterA) => print(parameterA);
        public void WorkingWithDisposableTypes(string connectionString)
```

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```
using (SqlConnection connection = new SqlConnection(connectionString))
{
    string query = "";
    // use the connection and the stream
    using (SqlCommand command = new SqlCommand(query))
    {
      }
   }
   *#endregion
}
```

▼ Structure

```
using System;
using System.Collections;
using UnityEngine;
namespace Adventure.Traps
    public class RotateTrap : MonoBehaviour
        #region FIELDS
        \ensuremath{//} As the region name suggests, this is where you would put all of your
        // public, private, protected Fields.
        // You should also separate your Public fields from your Private and
        // Protected Fields.
        // For example by placing your public Fields first,
        \label{protected} \mbox{\it // then your private/protected there after.}
        [Header("Rotation Properties")]
        public Vector2 Rotation = new Vector2(0f, 180f);
        [Header("Lerp Properties")]
        public float TimeToLerp = 3f;
        public float DelayBetweenRotations = 1f;
        private WaitForSeconds _delay;
        #endregion
        #region PROPERTIES
        /\!/ This is where all of your Properties for this class would be placed.
        public string Name
          get => gameObject.name;
          set => gameObject.name = value;
        #endregion
        #region UNITY METHODS
        // In the UNITY METHODS region, you would include all of the Unity Event
        // Methods your class would use.
        private void Awake()
            _delay = new WaitForSeconds(DelayBetweenRotations);
        private void Start()
            StartCoroutine(RotateTileRoutine(Rotation.x, Rotation.y));
        #endregion
        #region METHODS
        // The METHODS region is where you would put the main logic for your class.
        // These METHOD regions can be separated into different regions that handle
        // certain tasks, such as BUTTON METHODS, INPUT PROCESSING METHODS, etc
        /// Rotate Tile on Z Axis using Lerp<br/>
        /// </summary>
        /// <param name="a">Start Value</param>
        /// <param name="b">Target Value</param>
```

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```
/// <returns></returns>
        private IEnumerator RotateTileRoutine(float a, float b)
            // The Right Way to Lerp in Unity with Examples by John // https://gamedevbeginner.com/the-right-way-to-lerp-in-unity-with-examples/#right_way_to_use_lerp<br/>br/>
             // PRE COROUTINE - SETUP FOR COROUTINE
            float elapsedTimed = 0f;
            float zRotation = 0f;
            while (elapsedTimed < TimeToLerp)</pre>
                 zRotation = Mathf.LerpAngle(a, b, SimpleEasing(elapsedTimed / TimeToLerp));
                 transform.rotation = Quaternion.Euler(0f, 0f, zRotation);
                 elapsedTimed += Time.deltaTime;
                 yield return null;
             // POST COROUTINE - AFTER THE COROUTINE EXECUTED
            transform.rotation = Quaternion.Euler(0f, 0f, b);
            yield return _delay;
            StartCoroutine(RotateTileRoutine(b, a));
        #endregion
        #region HELPER METHODS
        \ensuremath{//} Helper Methods Compliment the methods inside of your METHODS region.
        // They are useful when you want to breakdown a larger method \,
        // into smaller readable pieces.
        private float SimpleEasing(float t)
            return t * t * (3f - 2f * t);
        #endregion
   }
}
```

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