
Documentation Technique

Projet C# – Jeu *Doodle Jump*

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1 Arborescence



2 Models

Listing 1 – code pour un element MonoGame

```

1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Text;
5  using System.Threading.Tasks;
6  using DJGame.Interfaces;
7  using Microsoft.Xna.Framework;
8  using Microsoft.Xna.Framework.Content;
9  using Microsoft.Xna.Framework.Graphics;
10 using SharpDX.Direct2D1.Effects;
11
12 namespace DJGame.Models
13 {
14     public abstract class UiElement : IMonogameElement
15     {
16         // Champs de la classe...
17         protected Texture2D texture;
18         protected Vector2 position;
19         protected Vector2 velocity;
20         private float scale;
21         public bool flipped;
22         private float rotation;
23         private bool showHitbox;
24
25         // Propriétés de la classe...
26         public Vector2 Position { get => position; }
27         protected Texture2D Texture { get => texture; }
28         public Vector2 Velocity { get => velocity; }
29         public float Scale { get => scale; }
30         public bool Flipped { get => flipped; }
31         public float Rotation { get => rotation; }
32         public bool ShowHitbox { get => showHitbox; }
33
34
35         // Constructeur de la classe...
36         public UiElement(Vector2 position, Vector2 velocity, int sizePourcent = 100, bool
            flipped = false, float rotation = 0, bool showHitbox = false)
37         {
38             this.position = position;
39             this.velocity = velocity;
40             SetSize(sizePourcent);
41             this.flipped = flipped;
42             this.rotation = rotation;
43             this.showHitbox = showHitbox;
44             // this.showHitbox = true;
45         }
46
47         // Methodes de la classe...
48         public abstract Rectangle Hitbox();
49
50         public void Remove()
51         {
52             SetSize(0);
53         }
54
55         protected void SetSize(int pourcent)
56         {
57             scale = pourcent / 100f;
58         }
59
60         protected void SetRotation(int degrees)
61         {
62             rotation = MathHelper.ToRadians(degrees);

```

```
63     }
64
65     public abstract void LoadContent(ContentManager content);
66     public abstract void Update(GameTime gameTime);
67     public abstract void Draw(SpriteBatch spriteBatch, GameTime gameTime);
68 }
69 }
```

2.1 Agents

2.2 Controls

2.3 Game

2.4 Windows