

Working with text particles in VR

Working with Unity's particle system to create poetic particle clouds, by Marilène Oliver.

Scripts required: N/A

VIMEO link: <https://vimeo.com/726184722>

Step by step (preparation):

1. If you don't already have a particle system in your project, go to **GameObject**, then **Effects**, then select **Particle System** (fig. 1). The Particle System will appear in your hierarchy and in the inspector.
2. Make a gridded **PNG** file, ideally with white text (fig. 2). The example we have here is a grid of 4 x 3 words on a transparent background.
3. It is converted into a **Sprite** in Unity by selecting it in the project window and then in the Inspector changing its **TextureType** (fig. 3) to **Sprite (2D and UI)**.

Step by step (making and customizing the particle material):

4. Now it is a **sprite**, we can make it into a particle material. Make a new material by right clicking in the **Materials** window, **Create**, then select **Material** (fig. 4).
5. Then a new material will appear in the inspector. From the drop down **Shader** menu, go to **Legacy Shaders/Particles/Additive** and then click on **Select** in the **Texture** box (fig. 5) and add your new sprite. Make sure you rename the material so that you can find it in the next step.

6. You are now ready to go back to your Particle System and add the material and set the grid values. Select the **Particle System** and in inspector toggle **Renderer** and drop your new material onto **Material** (fig. 6). Straight away it should start emitting your new material, but it will be the whole image.
7. To set the gridding, toggle **Texture Sheet Animation** and make sure the **Mode** is **Grid** and put in your grid values which for this material is 4 by 3. Automatically it will change to just emitting one word at a time (fig. 7).
8. You can now go on to customize your particles as needed (fig. 8).

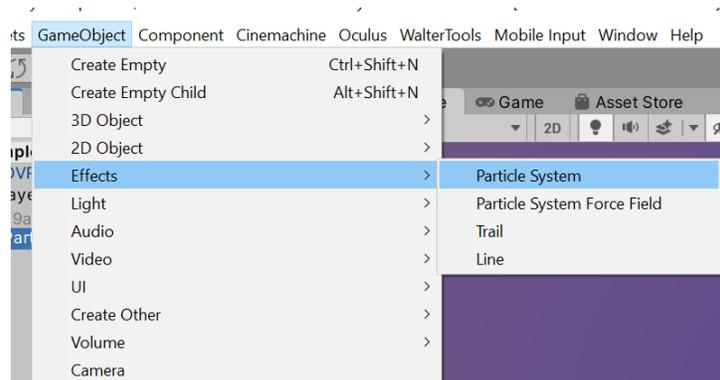


Fig. 1
Go to GameObject, Effects, then select Particle System



Fig. 2
Gridded PNG file of white text on transparent background



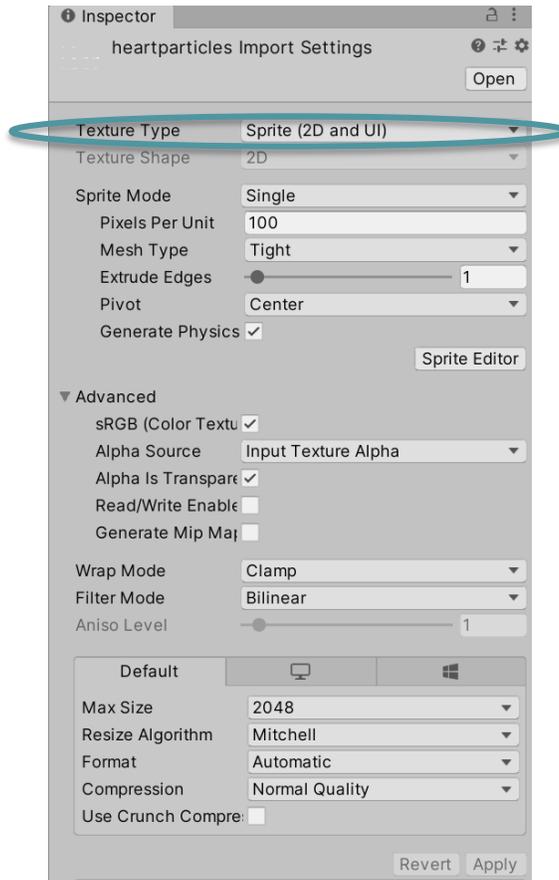


Fig. 3
Texture Type should be Sprite (2D and UI)

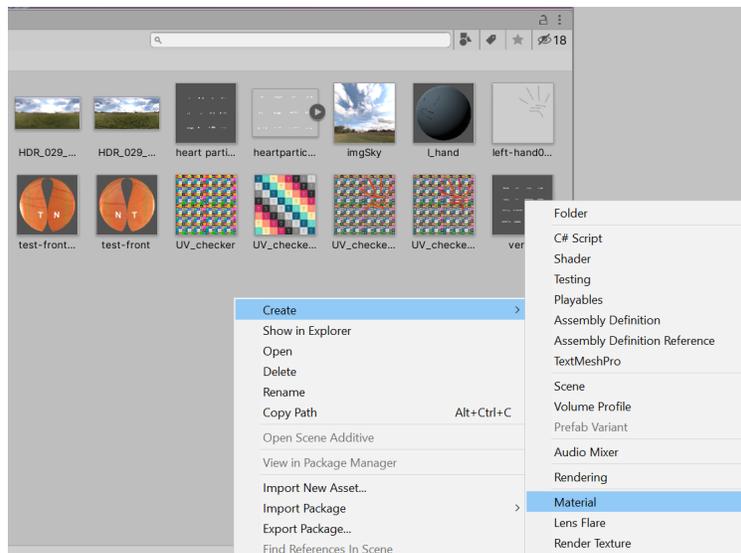


Fig. 4
Using the right-click menu to create a new Material



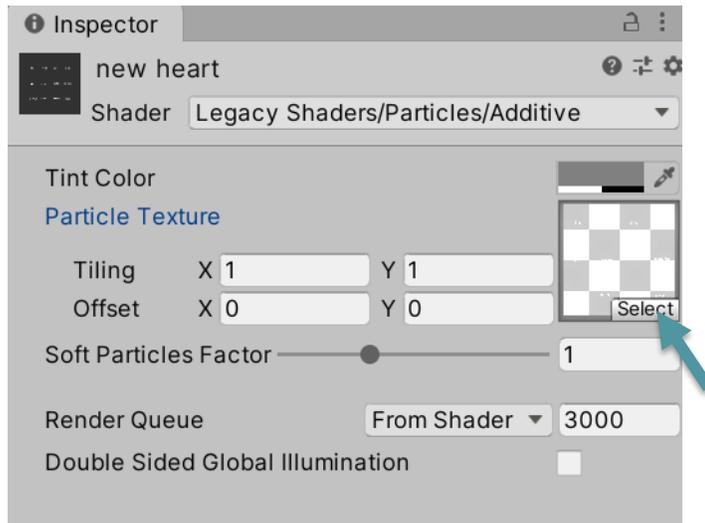


Fig. 5
Select Legacy Shaders/Particles/Additive

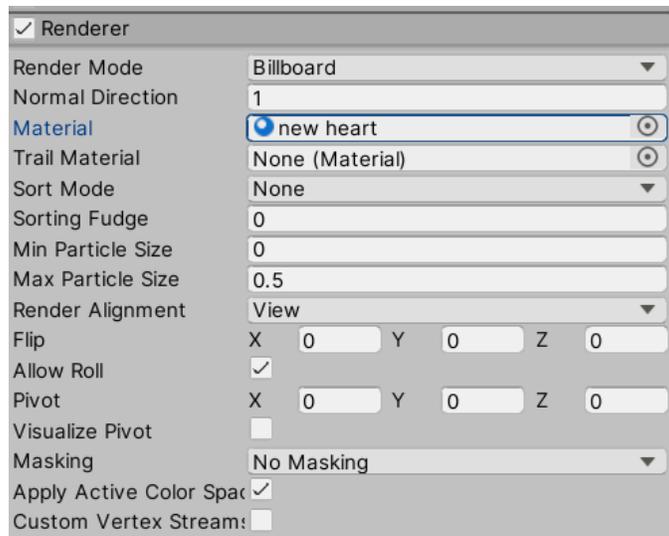


Fig. 6
Drag and drop your new material to the Material field



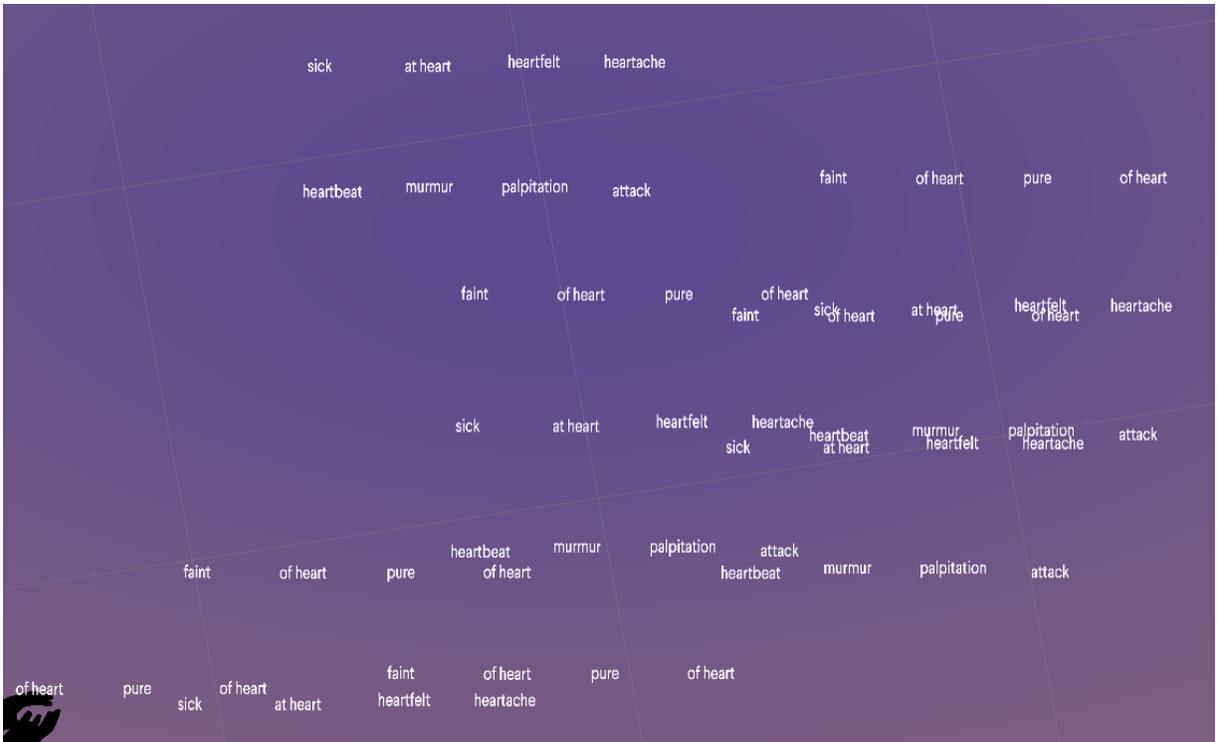


Fig. 7
Grid of text particles

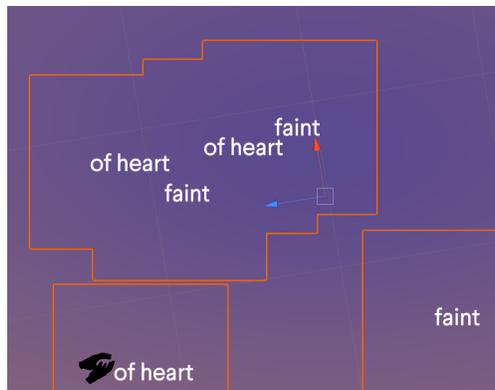


Fig. 8
Text particles can be customized

