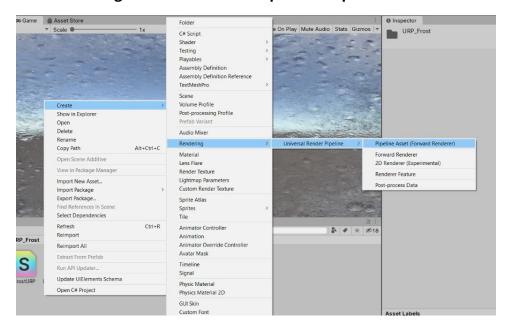
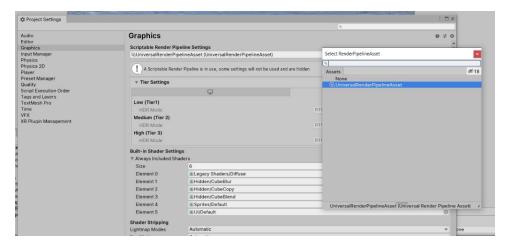
FAST CHROMATIC ABERRATION URP

How to setup URP(if you have already configured URP for your scene skip this part):

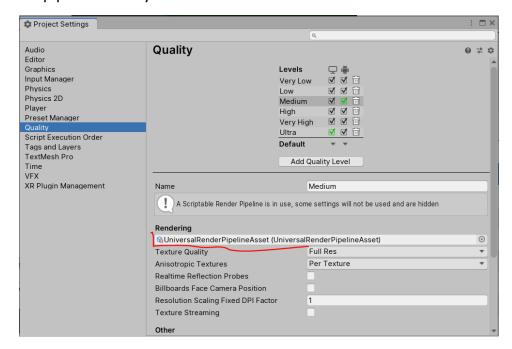
- 1. Firstly install the URP package to your project. Go to **Windows->Package Manager.** In the list find the LightweightRP and install it.
- 2. Firstly we need to create the Pipeline Asset. For that press **RightClick->Create->Rendering->UniversalRenderPipeline->PipelineAsset**



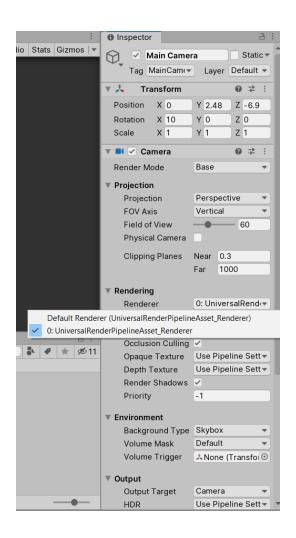
3. Go to **Edit->ProjectSettings->Graphics.** In the Scriptable Render Pipeline Settings, drag and drop the pipeline asset that we created in previous section



4. Go to **Edit->Project Settings->Quality.** In rendering section drag and drop the pipeline asset you created



5. Go to your camera object and in **Rendering** settings pick for **Renderer** the pipeline asset you created

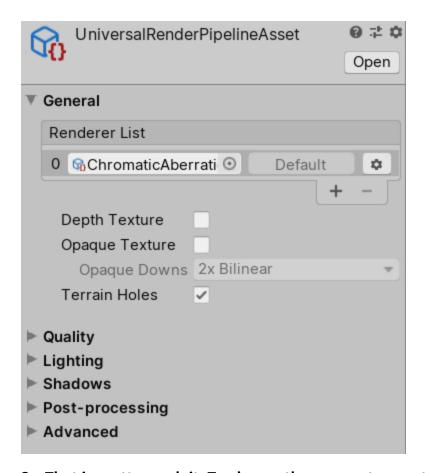


How to apply URP Mobile Chromatic Aberration:

1. Firstly import the package URP_Ca which is included in the asset

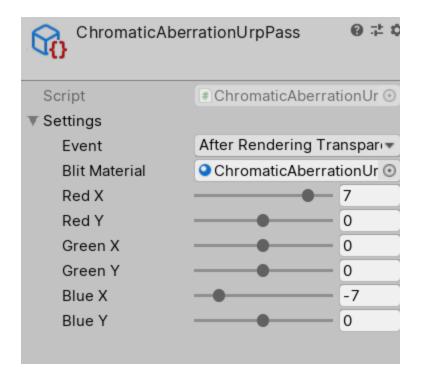


2. Open the settings of the URP pipeline asset. In the General tab for RenderType pick the Custom and pick the ChromaticAberrationUrp



3. That is pretty much it. To change the parameters go to the folder URP_Ca. Find ChromaticAberrationUrp, extend it and select ChromaticAberrationUrpPass. You will see in the inspector the parameters of it.





PARAMETERS

- **EVENT** set the rendering event on which the shader will affect
- **REDX** offset of the red filter by x axis
- **REDY** offset of the red filter by y axis
- **GREENX** offset of the green filter by x axis
- **GREENY** offset of the green filter by y axis
- **BLUEX** offset of the blue fitler by x axis
- **BLUEY** offset of the blue filter by y axis

SHADERS

• CHROMATIC ABERRATION - The fastest chromatic aberration effect in the AssetStore. Completely optimized chroatic aberration shader. Runs at 50-55FPS on lowend mobile device(with proper settings).

All the testing was made on low-end mobile device Meizu M2 Note in the scene containing:

- -101 different gameObjects,
- -101 different Materials,
- -51 different Textures,
- -1 Directional Light(realtime),
- -approximately 45k polygons