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## Xyz.Vasd.ProtoShaders

Contains shaders for prototype grid and ruler. It's based on Shader Graph with few custom .hlsl functions and includes.

There are two shaders:

Xyz.Vasd/ProtoPaper/ProtoPaper-Lit for lite version

and

Xyz.Vasd/ProtoPaper/ProtoPaper-Unlit for unlit version.

### **Demo Scenes**

Note, you can install only your currently using Render Pipeline subfolder.

#### **HDRP**

Packages/xyz.vasd.proto-paper/Content/Demo/HDRP/XV@ProtoPaper@Demo-HDRP.unity

### **URP**

Packages/xyz.vasd.proto-paper/Content/Demo/URP/XV@ProtoPaper@Demo-URP.unity

#### Built-In

Packages/xyz.vasd.proto-paper/Content/Demo/BuiltIn/XV@ProtoPaper@Demo-BuiltIn.unity

# Shader properties

Below are listed all properties to set in material.

#### Orientaion

Local means grid zero point is determined by mesh zero point (pivot).

Global means grid zero point is world coordinates zero (0, 0, 0).

#### Text Scale

0 - 1

Scale of printed text (Grid Size and Grid Position).

#### Grid

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Settings for main grid.
Grid
Boolean.
Enable/Disable grid cells rendering.
Grid Text
Boolean.
Enable/Disable grid text (cell size and position) rendering.
Grid Size
Slider: 0 - 999
Determines main grid cell size in units. Note, it's floored in the shader, so it's like an interger. For example, 10.5 will be 10.
Grid Border
Slider: 0 - 1
Size of grid border in percent of cell size cell size.
Grid Fade Distance
Float.
Determines the distance on which grid will be totaly faded out.
o means fading is disabled.
Note, it's scaled according to cell and border size.
Grid Color
Color.
Grid borders and text color.
Subgrid
Properties for subgrid.
Subgrid
Boolean.
Enable/Disable subgrid cells rendering.
Subgrid Text

README.md 8/7/2023 Boolean. Enable/Disable subgrid text (cell size and position) rendering. Subgrid Cells Number of cells per each main grid cell. Subgrid Fade Distance Float. Determines the distance on which subgrid will be totaly faded out. o means fading is disabled. Note, it's scaled according to cell and border size. **Subgrid Color** Color. Subgrid borders and text color. Background Basic background color and texture. Background Tint. Color. Background tint.

Background Texture.

Texture.

Background texture for cells. Each cell has uv from 0,0 to 1,1, so it will be tiled according to main grid cell size.