GPU Matrix Utilities (gpu.matrix)

This module provides access to the matrix stack.

```
gpu.matrix.get_model_view_matrix()
```

Return a copy of the model-view matrix.

RETURNS:

A 4x4 view matrix.

RETURN TYPE:

mathutils.Matrix

gpu.matrix.get_normal_matrix()

Return a copy of the normal matrix.

RETURNS:

A 3x3 normal matrix.

RETURN TYPE:

mathutils.Matrix

gpu.matrix.get_projection_matrix()

Return a copy of the projection matrix.

RETURNS:

A 4x4 projection matrix.

RETURN TYPE:

mathutils.Matrix

gpu.matrix.load_identity()

Load an identity matrix into the stack.

gpu.matrix.load_matrix(matrix)

Load a matrix into the stack.

PARAMETERS:

```
matrix (mathutils.Matrix) - A 4x4 matrix.
```

gpu.matrix.load_projection_matrix(matrix)

Load a projection matrix into the stack.

PARAMETERS:

```
matrix (mathutils.Matrix) - A 4x4 matrix.
```

gpu.matrix.multiply_matrix(matrix)

Multiply the current stack matrix.

PARAMETERS:

```
matrix (mathutils.Matrix) - A 4x4 matrix.
```

gpu.matrix.pop()

Remove the last model-view matrix from the stack.

gpu.matrix.pop_projection()

Remove the last projection matrix from the stack.

gpu.matrix.push()

Add to the model-view matrix stack.

gpu.matrix.push_pop()

Context manager to ensure balanced push/pop calls, even in the case of an error.

gpu.matrix.push_pop_projection()

Context manager to ensure balanced push/pop calls, even in the case of an error.

gpu.matrix.push_projection()

Add to the projection matrix stack.

gpu.matrix.reset()

Empty stack and set to identity.

gpu.matrix.scale(scale)

Scale the current stack matrix.

PARAMETERS:

scale (Sequence[float]) - Scale the current stack matrix with 2 or 3 floats.

gpu.matrix.scale_uniform(scale)

PARAMETERS:

scale (float) - Scale the current stack matrix.

gpu.matrix.translate(offset)

Scale the current stack matrix.

PARAMETERS:

offset (Sequence[float]) – Translate the current stack matrix with 2 or 3 floats.

Previous GPU Types (gpu.types)

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