

Computer Graphics

Lecture 4 3D Models Textures

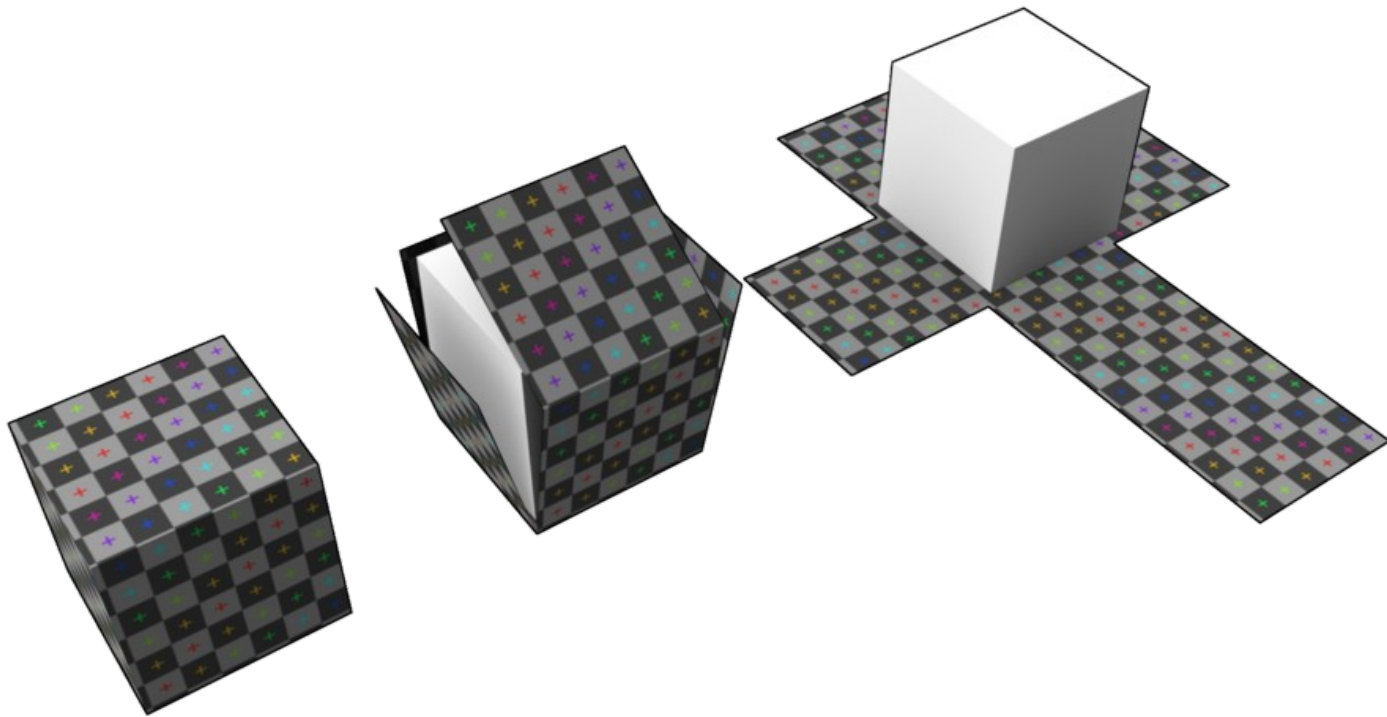
The background of the slide is composed of several large, overlapping, semi-transparent geometric shapes in various colors: red, orange, yellow, green, blue, and purple. These shapes are arranged in a way that they create a dynamic, abstract composition. The word "Textures" is centered in the white space between these shapes.

Textures

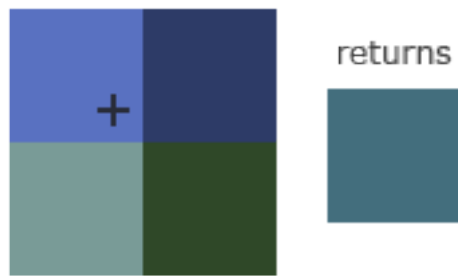
The background of the slide is composed of several large, overlapping, semi-transparent geometric shapes in various colors: red, orange, yellow, green, blue, and purple. These shapes are arranged in a way that creates a dynamic, abstract composition. The text 'UV mapping' is centered in the white space between these shapes.

UV mapping

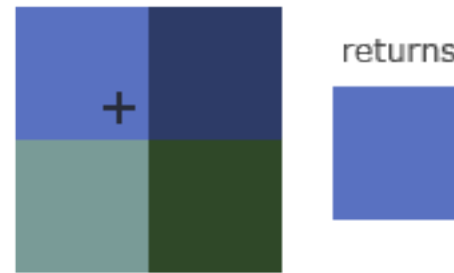
Wrapping Example



Textures Filtering



Linear



Nearest

Wrapping Modes



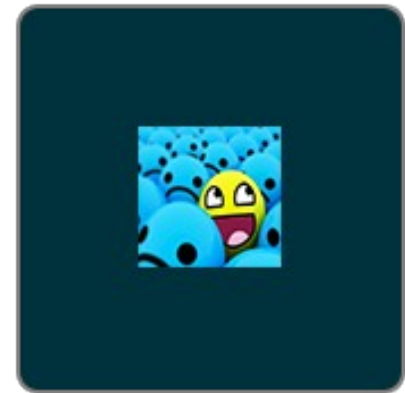
GL_REPEAT



GL_MIRRORED_REPEAT



GL_CLAMP_TO_EDGE



GL_CLAMP_TO_BORDER

The background of the slide is composed of several large, overlapping triangles in various colors: red, orange, yellow, green, blue, and purple. These triangles are arranged in a way that they fill the frame, with some overlapping others, creating a dynamic and colorful abstract pattern. The word "Skybox" is centered in the white space between the triangles.

Skybox

The background of the slide is composed of several large, overlapping triangles in various colors: red, orange, yellow, green, blue, and purple. These triangles are arranged in a way that they create a dynamic, abstract composition. The text '3D Models' is centered in the white space between the triangles.

3D Models

The background of the slide is composed of several large, overlapping triangles in various colors: red, orange, yellow, green, blue, and purple. These triangles are arranged in a way that they point towards the center, creating a dynamic and colorful geometric pattern.

Thank You !

Useful Links

- <https://github.com/assimp/assimp>
- https://en.wikipedia.org/wiki/UV_mapping
- <https://www.youtube.com/watch?v=Yx2JNbv8Kpg>
- <https://learnopengl.com/Getting-started/Textures>