
Advanced Modern OpenGL: Rendering and Effects

Based on OpenGL 4.5, created on February 28, 2026

The logo for AKDAB is a blue square with a white triangle pointing downwards from the bottom-left corner. Inside the square, the letters 'AKDAB' are written in white. The 'A' is stylized with a white lightning bolt symbol to its left.

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Trusted Software Excellence

- What is OpenGL?
- Terminology
- Qt helper classes

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Rendering Techniques

- Anti-aliasing
- Transparency
- Shadowing
- SSAO
- Advanced Lighting
- Physics Based Rendering
- Deferred Rendering

Texturing

- Advanced Texturing
 - Normal Mapping
 - Parallax Mapping
 - Environment Mapping
 - Procedural Texturing
- Generating and Using Noise

Picking

- Color Coding
- Ray Casting

Reading List

- Recommended Books