

# OpenGL<sup>®</sup>

## Programming Guide

*Ninth Edition*

*The Official Guide to Learning  
OpenGL<sup>®</sup>, Version 4.5 with SPIR-V*



John Kessenich • Graham Sellers • Dave Shreiner

The Khronos OpenGL ARB Working Group

# OpenGL Programming Guide Seventh Edition

**Michael Daley, Rod Strougo, Ray  
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