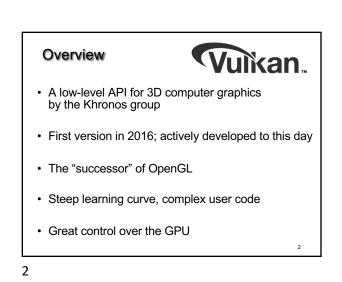
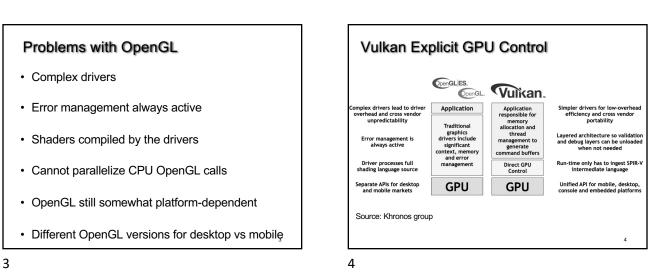


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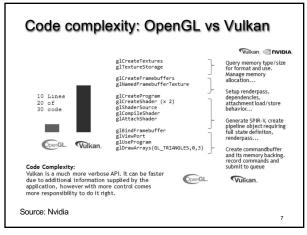
## Vulkan Target Audience

- · Vulkan is not for everyone
- For programmers enthusiastic about highperformance computer graphics
- If your focus is game development, you may stick with Direct3D or OpenGL.
- Major game engines use Vulkan without exposing it to you.

SPIR-V

- "Standard Portable Intermediate Representation"
- High-level intermediate language (exchanged in binary form)
- · Used in Vulkan, and OpenCL
- Removes the need for the graphics driver to include a shading language compiler
- In Vulkan, one can use GLSL or HSLS => converted to SPIR-V

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## Summary

- Vulkan is much more low-level than OpenGL
- Greater control over the GPU, at the cost of complex programming
- Vulkan is actively developed by the Khronos group

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• OpenGL and Direct3D are not going away any time soon.

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