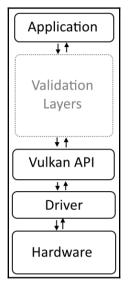
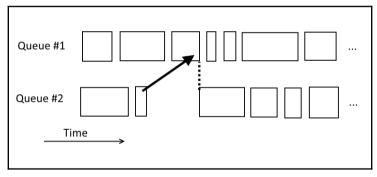
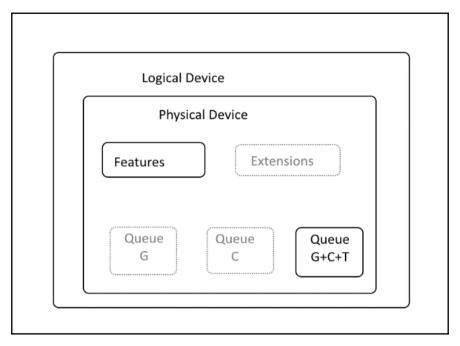
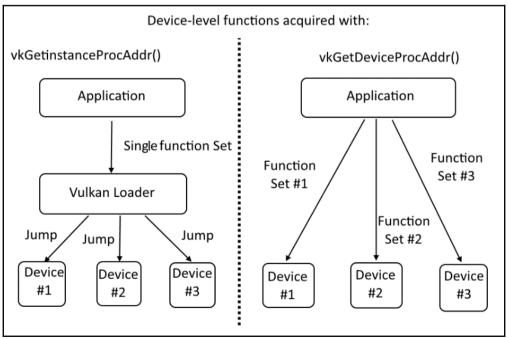
Chapter 1: Instance and Devices

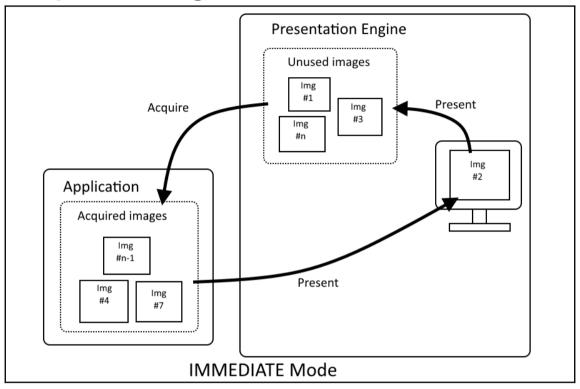


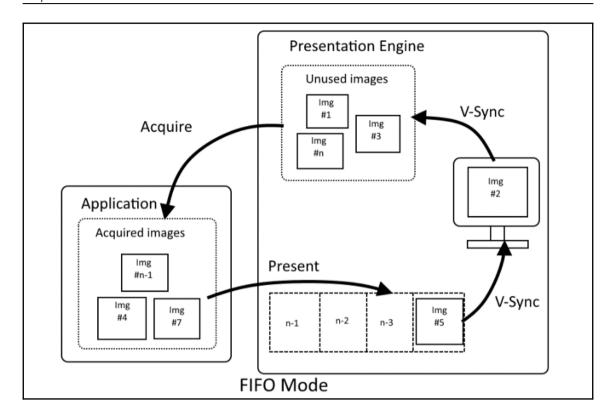


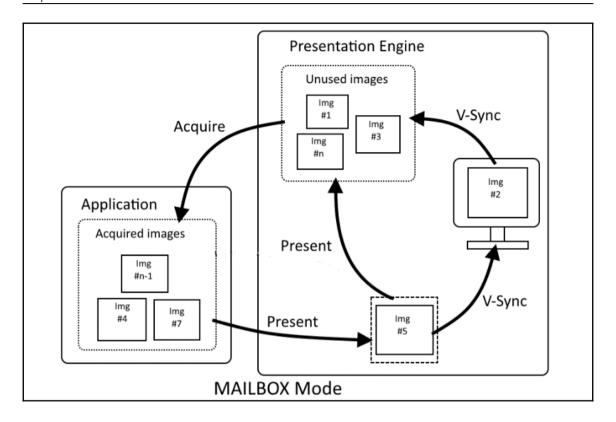




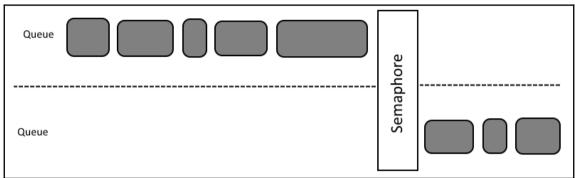
Chapter 2: Image Presentation

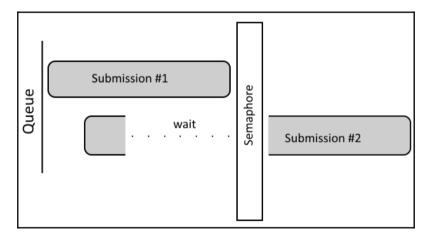




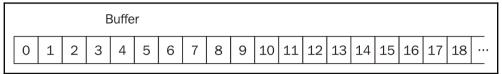


Chapter 3: Command Buffers and Synchronization





Chapter 4: Resources and Memory



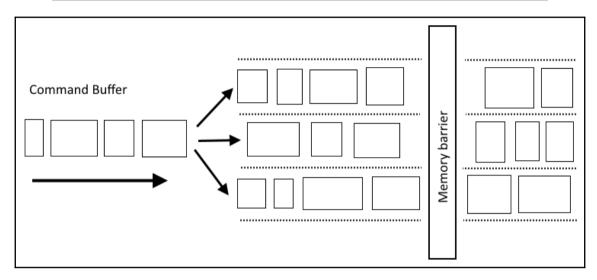
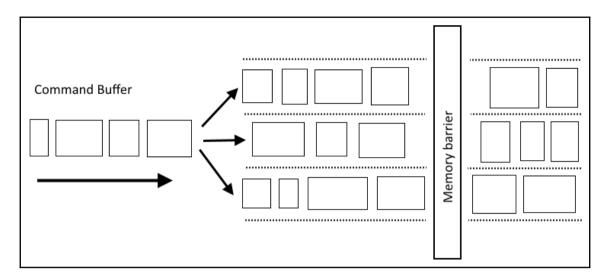
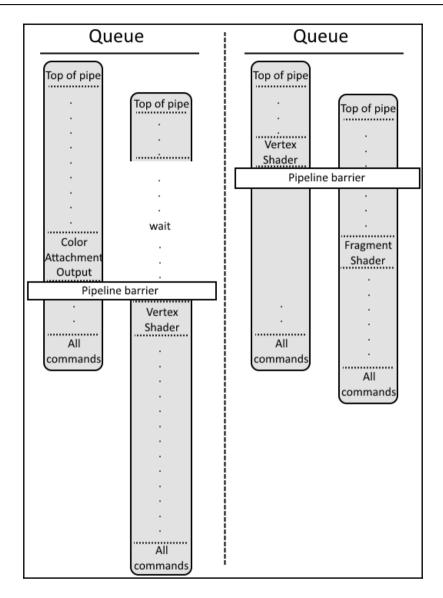
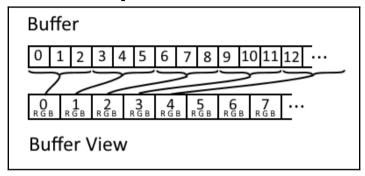


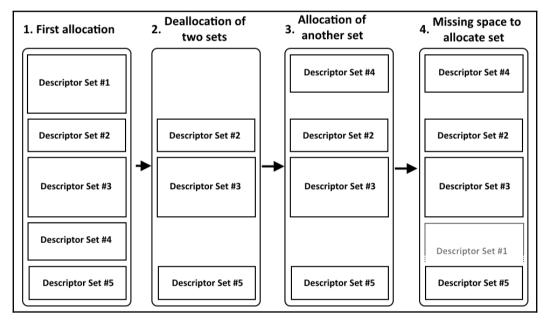
Image																			
Texels				Memory															
0	1	2	3		0	1	4	5	2	3	6	7	8	9	12	13	10	11	
4	5	6	7																
8	9	10	11																
12	13	14	15																



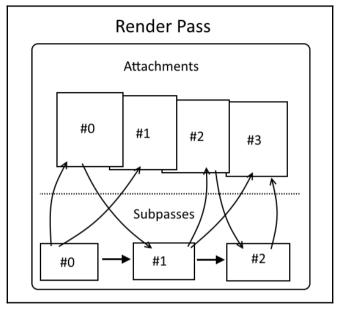


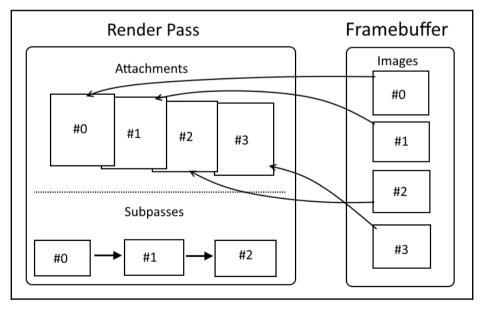
Chapter 5: Descriptor Sets



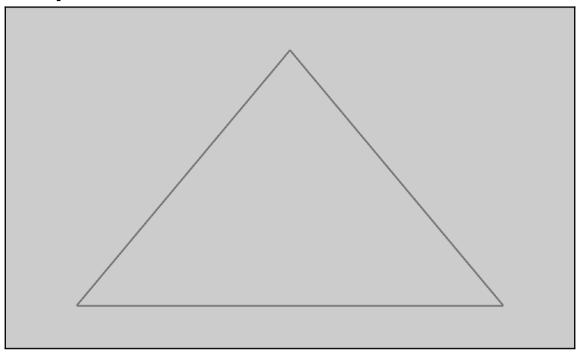


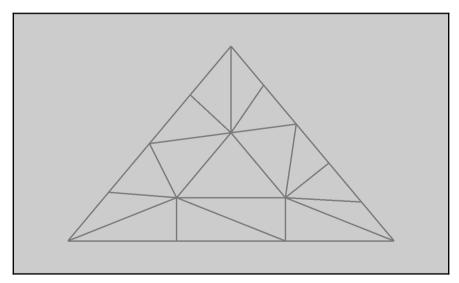
Chapter 6: Render Passes and Framebuffers

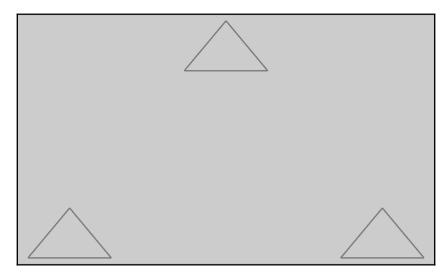


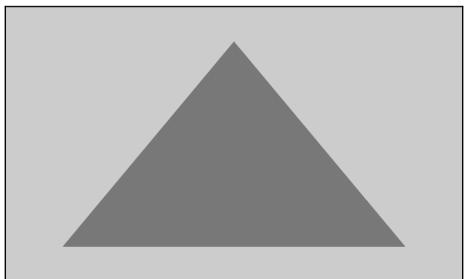


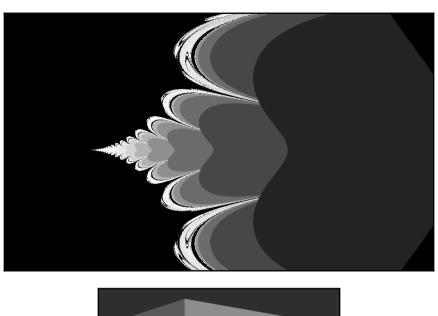
Chapter 7: Shaders

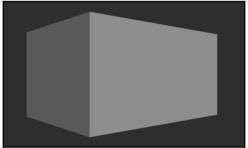




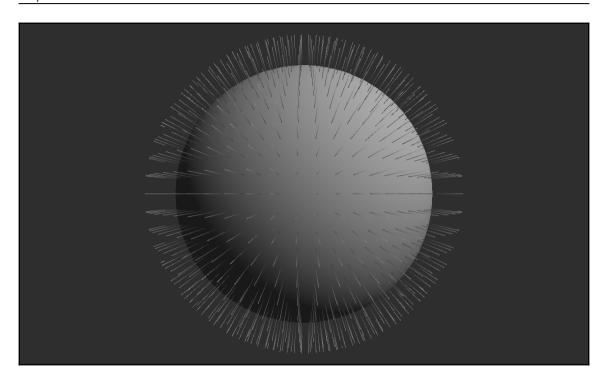




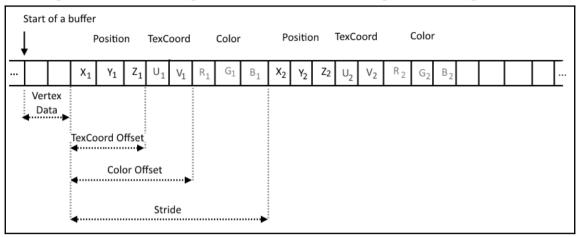


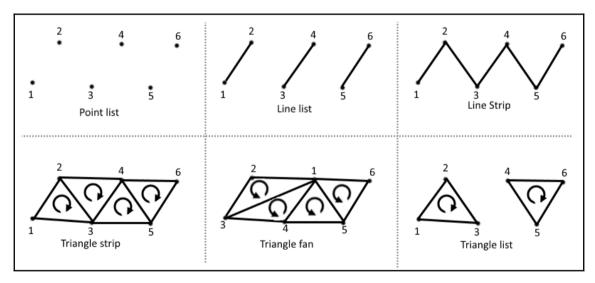


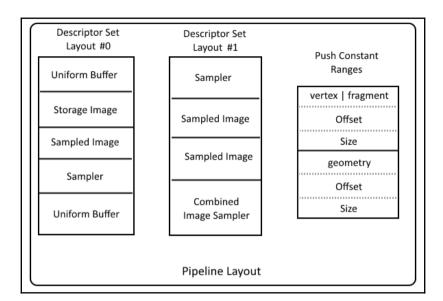


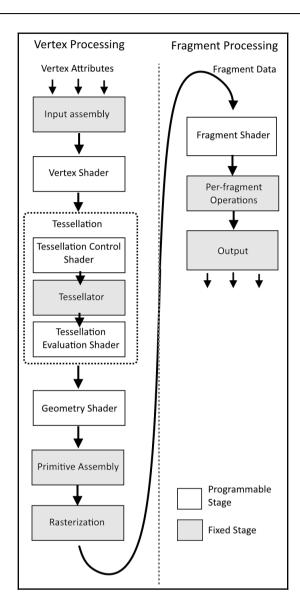


Chapter 8: Graphics and Compute Pipelines

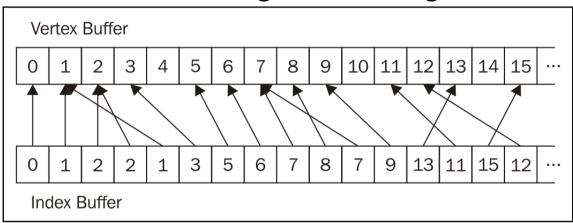


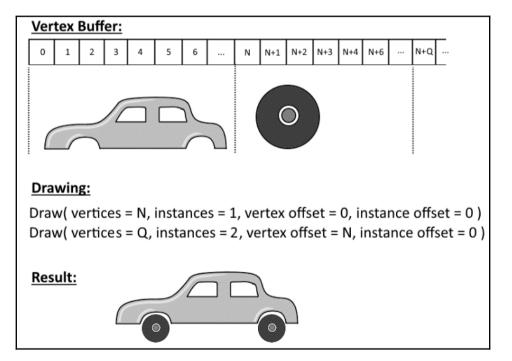


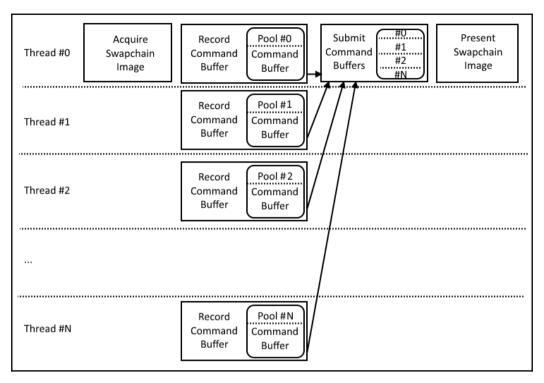


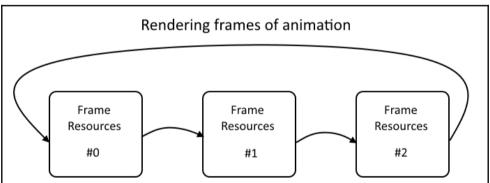


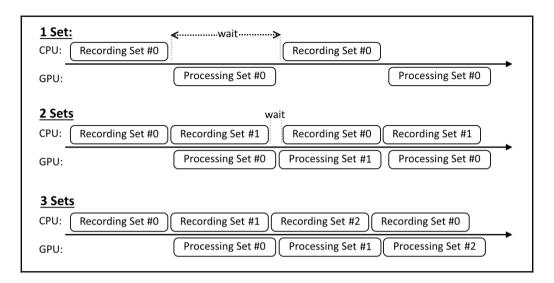
Chapter 9: Command Recording and Drawing



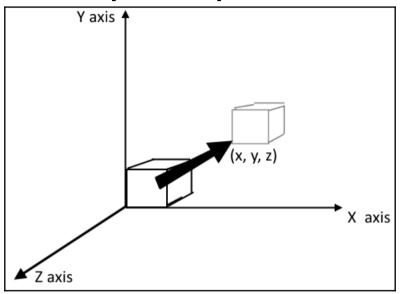






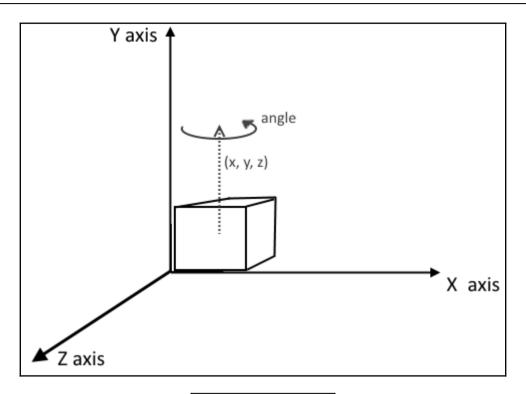


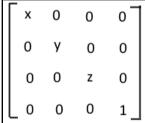
Chapter 10: Helper Recipes

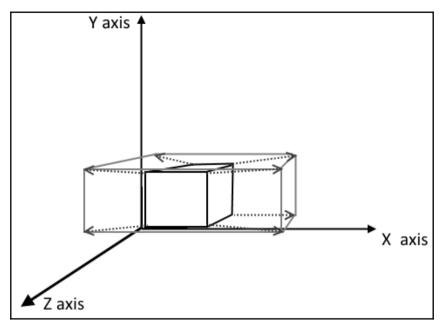


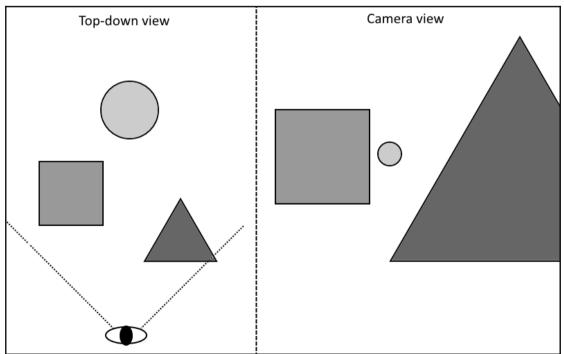
$$\begin{bmatrix}
1 & 0 & 0 & x \\
0 & 1 & 0 & y \\
0 & 0 & 1 & z \\
0 & 0 & 0 & 1
\end{bmatrix}$$

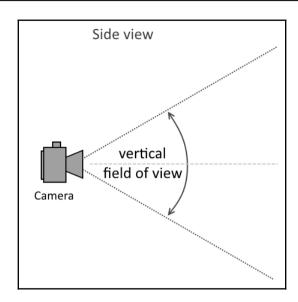
$$\begin{bmatrix} R_{xx} & R_{yx} & R_{zx} & 0 \\ R_{xy} & R_{yy} & R_{zy} & 0 \\ R_{xz} & R_{yz} & R_{zz} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}$$



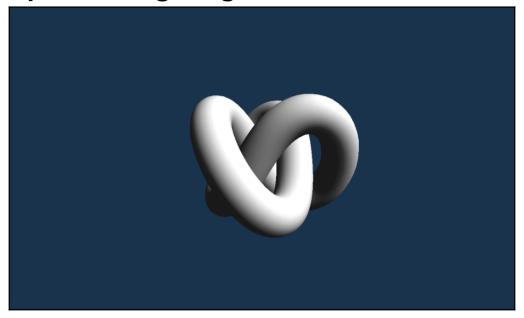


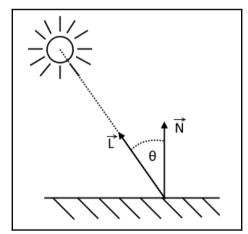


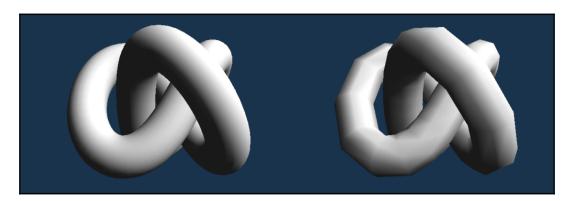


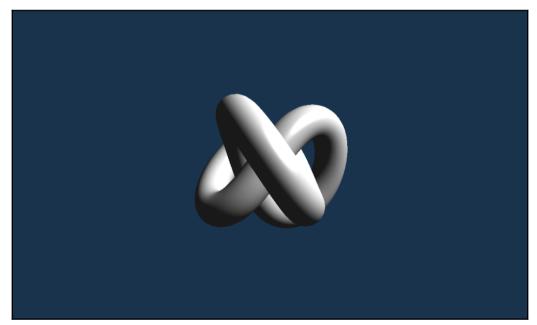


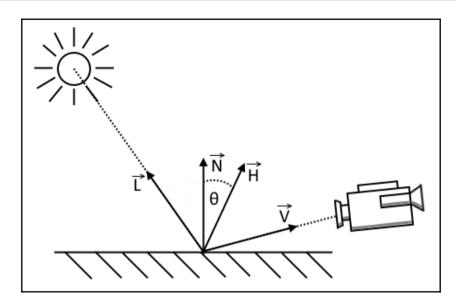
Chapter 11: Lighting

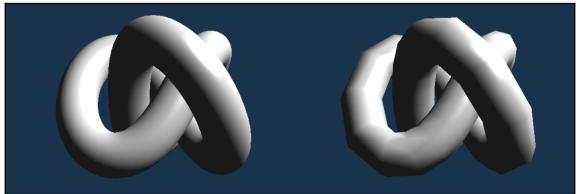




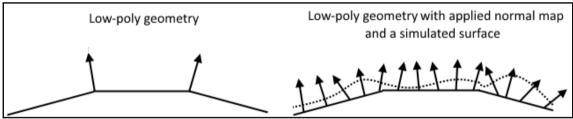








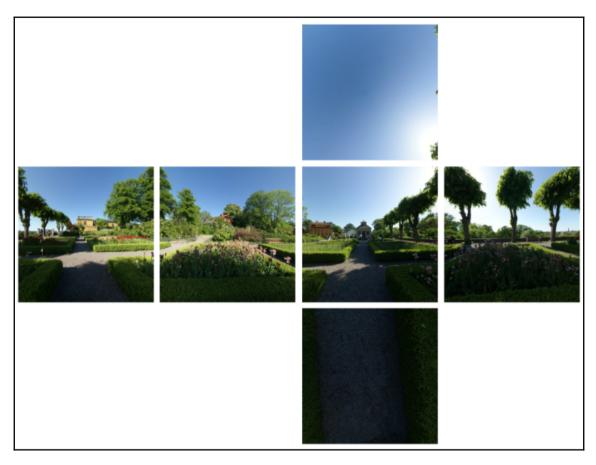




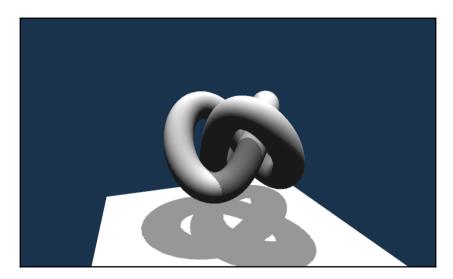










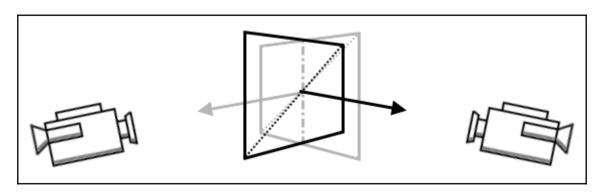


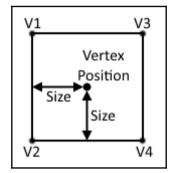


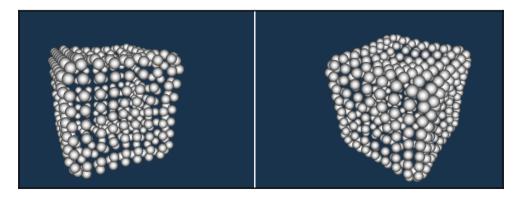
Advanced Rendering Techniques

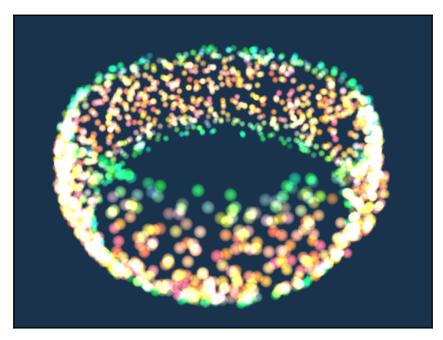


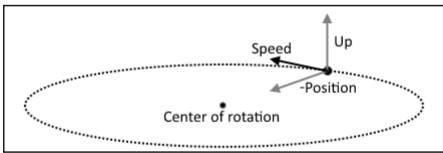


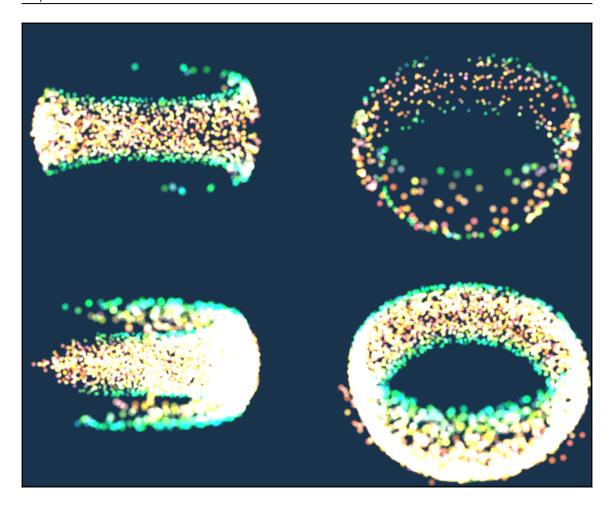


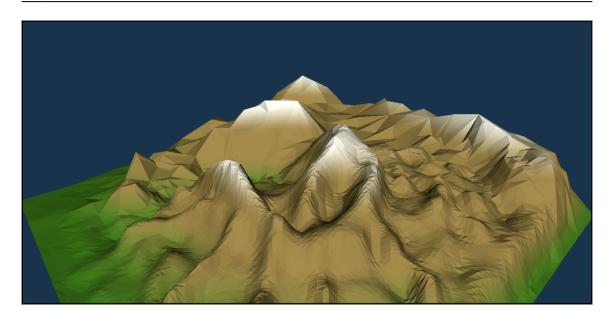


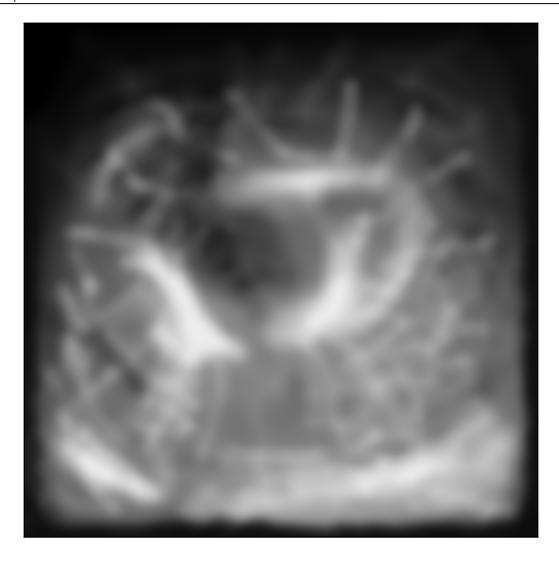


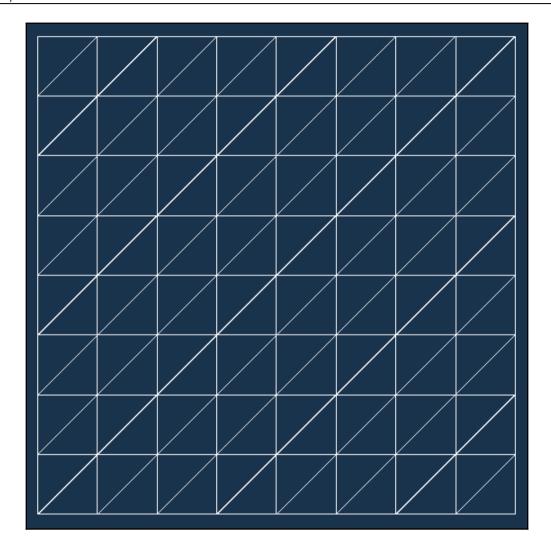


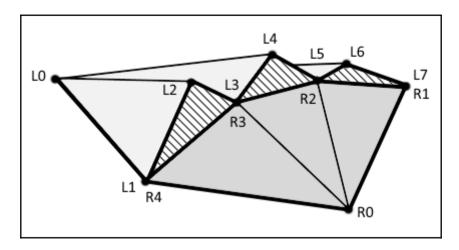


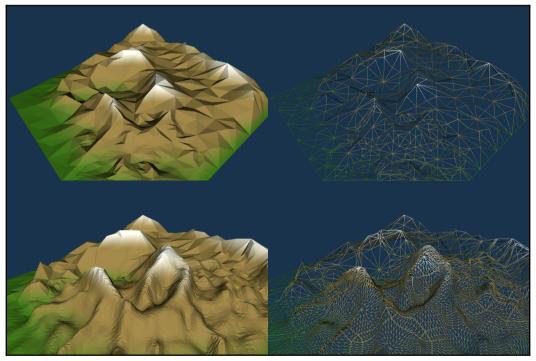


















Chapter 12: Advanced Rendering Techniques

