

X3D Application Stack - Layers and Alternatives

User Experience	HTML5, CSS, JavaScript	Native GUI Application	XR headset, immersive displays
3D Modeling	X3D	glTF2, extensions	Import, conversion of numerous 3D formats
Programming Libraries	X3DOM, X_ITE	Castle Game Engine, FreeWrl, others	Web authoring tools and 3D translators
3D Rendering	WebGL, others	WebAudio, MIDI2, streaming formats	WebXR, others
Hardware	CPU and GPU	Visual Display, Spatial Sound	User Interaction Devices