

# Vizard

## VR Development Platform

Rapidly create a wide range of immersive 3D experiences with the most powerful, innovative virtual reality development platform. Vizard has everything you need to build complete, interactive VR applications. The software supports all standard VR hardware and easily integrates with other 3rd party software.

- Build applications quickly with easy-to-learn Python, the world's most accessible and powerful scripting language.
- Create enterprise-level VR environments with co-presence and clustering capabilities.
- Import 3D models with industry standard formats through our simple art workflow.

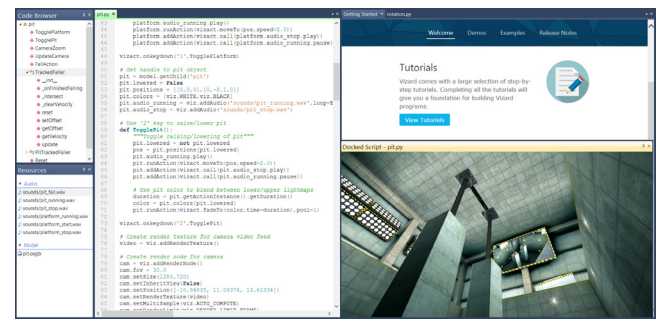
## Vizard's Core Features

**Rapid Application Development:** Powerful simulation engine enables fast development of VR applications and includes a large variety of VR specific libraries.

- **Sophisticated Vizard IDE:** Embedded interactive simulation engine enables rapid development of virtual reality applications.
- **Large variety of VR specific libraries:** Saves development time, easily extend pre-built functionality.
- **Integrated editor:** Transform content from different sources, assemble and modify your world. Includes built-in intelligent code completion, and visual debugging.
- **EXE publishing:** Share and demonstrate your applications without the need for additional software.
- **Scene editor and inspector tool:** 3D model viewer lets you quickly view assets, examine graph structures, see stats on polygon and texture usage, and preview animations.



Vizard's user-friendly IDE enables anyone to build sophisticated VR simulations.



Vizard comes equipped with beginner tutorials to get you started.

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## Extensibility - Third Party Support

- **VizConnect:** Build once, deploy everywhere. Visual configurator allows you to easily connect third party VR hardware such as analog controllers, haptic devices, motion capture suits, projection systems, biofeedback devices, and more. Includes visual tools for authoring interaction behaviors such as grabbing, vehicle modes (airplane, helicopter, magic carpet), avatar inverse kinematics, and inspection tools such as a measuring tape.
- **Display Flexibility:** Render to single and multi-screen 3D projection systems including curved surfaces. Readily connect to a multitude of 3D stereoscopic devices.
- **Clustering:** Leverage advanced real-time rendering and processing of large worlds and heavy simulations. Connect up to 64 separate computers.

**Art Workflow:** Import industry standard 2D and 3D formats. Implement advanced material shading techniques including the ability to add your own GLSL shader code.

# Advanced Features

## Collaboration/Co-Presence

- Link together VizMove VR systems to join people together in the virtual world.
- Interact with team members in real time over a local network.

## Physics Engine

- Access high performance library for simulating rigid body dynamics.
- Simulate vehicle and object interactions in virtual environments. Create robotics simulation applications.
- Utilize advanced joint types and integrated collision detection with friction.



Vizard's rendering engine powers large environments at scale with high-quality graphics and dynamic lighting.

## SDK/Extendability

- Extend the functionality in C++ using the SDK included in Vizard.
- Create plug-ins that can interface with Vizard virtual reality scripts.

# Why VR?

Virtual reality is revolutionizing how we interact with information. Save time while improving communication between designers, engineers, and management teams. WorldViz technology solves problems across a wide range of industries with applications ranging from design visualization and industrial training to interactive education and scientific research.

## About WorldViz

WorldViz is the industry leader in immersion-ready virtual reality (VR) solutions. WorldViz's patent-pending interactive visualization and simulation technologies are deployed across 1500+ Fortune 500 companies, academic institutions and government agencies. WorldViz's core products are Vizard, the premier development platform for professional VR application design, and VizMove, the world's only enterprise-class VR software and hardware solution. WorldViz also offers PPT, a high-precision wide-area motion tracking system, as well as professional consulting and content creation services. WorldViz technology enables users to replace physical processes with immersive virtual methods. Applications range from design visualization and industrial training to interactive education and scientific research.

