## **ABOUT US**

# web **3D** CONSORTIUM

Web3D Consortium is a non-profit organization open to industry, academic, government and individual members. The Web3D Consortium is committed to the creation and deployment of open, royalty-free standards that enable the communication of real-time 3D across applications: networks, and XML web services.

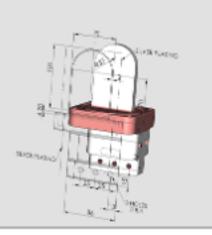


https://www.web3d.org/working-groups/design-printing-and-scanning

## DESIGN PRINTING AND SCANNING WORKING GROUP

#### Activities

CAD model rendering Product Documentation Data Visualization 3D Printing and Scanning Developing X3D Capabilities: Mesh and NURBS geometry Annotations Interactivity and Animation



# INTERACTIVE ROYALTY-FREE 3D SOLUTION FOR THE WEB



Extensible 3D (X3D) is a Royalty-free open ISO standard of the **Web3D Consortium**. Specifications are developed by members and ISO Ratified and freely available to the public. The Web3D Consortium continues to design, extend and promote 3D standards to meet new market and technology needs.



### **Contact us for information**

#### Building cohesive technology standards

The Design Printing and Scanning Working Group engages with several standards development organizations to enable standards based visualization

- DICOM WG-17 3D Manufacturing
- ISO TC 184/SC 4 JWG 16 Formats for Visualization
- ISO/IEC JTC 1 WG 12 3D Printing and Scanning



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#### Web3D Consortium

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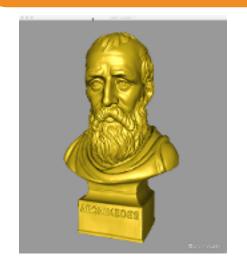
info@Web3D.org

#### JOIN X3D DESIGN PRINTING AND SCANNING WORKING GROUP

The Working Group provides expertise and resources in

- Conversion of STEP format CAD files into X3D models.
- Managing metadata in an X3D models.
- Workflow processes and validation.

## **OUR SOLUTIONS**



X3D rendering of 3D scan of sculpture

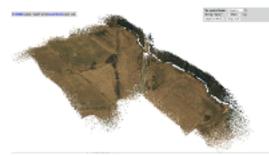
#### **BENEFITS**

Build once and use for cross-platform interactive deployment of shared virtual environments from CAVEs to tablets, from phones to headsets, and everywhere in between: Industrial-strength 3D!

Royalty-FREE provides the most cost effective solution for commercial and non-commercial use of 3D Standards for Web Authors!

Plugin-free rendering and HTML5 deployments with open source tools: X3DOM and X\_ITE





X3D rendering of LIDAR point cloud



Build once and use for cross-platform interactive deployment of shared virtual environments

www.web3d.org/join

# 1

### **CAD Quality Rendering**

High quality visualization of CAD models may be prepared from standard CAD formats such as STEP.

#### **3D Printing and Scanning**

3D Printing and Scanning of CAD models, published with attributes and annotation.



### **Security and Privacy**

Reuseable record-based security of 3D models using XML Encryption (privacy) and XML Digital Signature (authoritative authentication).



#### Why choose Web3D Standards:

- It's Royalty-free: own your content; there is no reliance on proprietary formats.
- Commercial and open source implementations allowing multiple possible business models.
- Designed and developed through the open source community. 3D for Medical visualization, VR/AR, 3D Printing and gaming / therapies!
- Build once : X3D is platform agnostic.