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| 1. Record Nr.           | UNINA9910784550903321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Autore                  | Brutzman Don                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Titolo                  | X3D [[electronic resource] ] : extensible 3D graphics for Web authors / / Don Brutzman and Leonard Daly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| ISBN                    | 1-281-05321-X<br>9786611053215<br>0-08-048988-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Descrizione fisica      | 1 online resource (471 p.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Collana                 | Series in interactive 3D technology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Altri autori (Persone)  | DalyLeonard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Disciplina              | 006.6/96                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Soggetti                | Computer animation - Standards<br>X3D (Standard)<br>Web sites - Design<br>Three-dimensional display systems<br>XML (Document markup language)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| Note generali           | Description based upon print version of record.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| Nota di contenuto       | Front Cover; X3D: Extensible 3D Graphics for Web Authors; Copyright Page; Dedication Page; Contents; Preface; 1. Goals; 2. Motivation; 3. Reader background; 4. Software support; 5. Book structure; 5.1. Typographic conventions; 5.2. Chapter organization; 6. Chapter descriptions; 6.1. Chapter topics; 6.2. Appendices; 6.3. How to use this book; Contributor List; About the Authors; Chapter 1: Technical Overview; 1. Introduction; 2. Concepts; 2.1. Historical background: VRML, ISO, and the Web3D Consortium; 2.2. X3D browsers; 2.3. X3D specifications; 2.4. Scene graph; 2.5. File structure<br>2.5.1. File header 2.5.2. X3D header statement; 2.5.3. Profile statements; 2.5.4. Component statements; 2.5.5. Meta statements; 2.5.6. Scene graph body; 2.6. Field types; 2.7. Abstract node types; 2.8. File encodings: XML, ClassicVRML, and Compressed; 2.8.1. Extensible Markup Language (XML) encoding: .x3d files; 2.8.1.1. XML motivations; 2.8.1.2. XML design for X3D; 2.8.1.3. XML validation; 2.8.2. ClassicVRML encoding: .x3dv files; 2.8.3. Binary encoding: .x3db files; 2.9. Hello World example using X3D-Edit and an X3D browser; 3. |

Summary; 3.1. Key ideas; 3.2. Next chapters; Reference  
Chapter 2: Geometry Nodes, Part 1: Primitives1. What this chapter covers; 2. Concepts; 2.1. Purpose and common functionality; 2.2. Common fields; 2.2.1. solid; 2.3. Abstract node types; 2.3.1. X3DShapeNode type; 2.3.2. X3DGeometryNode type; 2.3.3. X3DFontStyleNode type; 2.4. Hints and warnings; 3. Node descriptions; 3.1. Shape node; 3.1.1. Hints and warnings; 3.2. Box node; 3.2.1. size; 3.2.2. Hints and warnings; 3.3. Cone node; 3.3.1. bottomRadius and height; 3.3.2. bottom and side; 3.3.3. Hints and warnings; 3.4. Cylinder node; 3.4.1. radius and height; 3.4.2. bottom, side, and top; 3.4.3. Hints and warnings 3.5. Sphere node; 3.5.1. radius; 3.5.2. Hints and warnings; 3.6. Text node; 3.6.1. string; 3.6.2. length; 3.6.3. max Extent; 3.6.4. Hints and warnings; 3.7. Font Style node; 3.7.1. family; 3.7.2. justify; 3.7.3. language; 3.7.4. style; 3.7.5. size and spacing; 3.7.6. horizontal, left To Right, and top To Bottom; 3.7.7. Hints and warnings; 3.7.8. Parameter combinations; 4. Summary; 4.1. Key ideas; 4.2. Related nodes and concepts; 4.3. Next chapter; Chapter 3: Grouping Nodes; 1. What this chapter covers; 2. Concepts; 2.1. Purpose and common functionality 2.2. Units of measurement and coordinate systems 2.3. Coordinate system details; 2.3.1. Which way is up?; 2.3.2. "Right-hand rule" rules!; 2.3.3. Orientation; 2.4. DEF and USE; 2.5. Abstract node types; 2.5.1. X3D Child Node type; 2.5.2. X3D Bounded Object type; 2.5.3. X3D Grouping Node type; 2.5.4. X3D Info Node type; 2.5.5. X3D Url Object abstract interface; 3. Node descriptions; 3.1. Group and Static Group nodes; 3.2. Transform node; 3.2.1. translation; 3.2.2. rotation; 3.2.3. center; 3.2.4. scale; 3.2.5. scale Orientation; 3.2.6. Order of translation, rotation, scaling, and center operations 3.2.7. Hints and warnings

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## Sommario/riassunto

In the early days of the Web a need was recognized for a language to display 3D objects through a browser. An HTML-like language, VRML, was proposed in 1994 and became the standard for describing interactive 3D objects and worlds on the Web. 3D Web courses were started, several best-selling books were published, and VRML continues to be used today. However VRML, because it was based on HTML, is a stodgy language that is not easy to incorporate with other applications and has been difficult to add features to. Meanwhile, applications for interactive 3D graphics have been exploding in areas such

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| Disciplina              | 890                   |
| Soggetti                | Zeitschrift           |
| Lingua di pubblicazione | Bengali               |
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