AutoCAD 2011

AutoCAD 2011 powers design projects from concept through completion. With new surface modeling tools and point cloud support, ideas take shape with greater clarity and accuracy than ever before. New inferred constraints capabilities make working with parametrics easier and updated productivity tools help deliver final design documentation faster than ever. Communication of design intent is enhanced with major updates to materials and surfaces. With these and many other new capabilities users have been asking for, AutoCAD 2011 helps take design and documentation further.

What's New

**Enhanced Conceptual Design Tools**
- **Surface Modeling Tools:** New tools provide designers increased flexibility and control when designing in 3D. They can easily create smooth surfaces and surface transitions, while surface associativity maintains relationships between surfaces.
- **Point Cloud Support:** Bring 3D scans to life and streamline time-consuming renovation and restoration projects with point cloud support. AutoCAD 2011 supports up to two billion points so users can quickly visualize scanned objects directly within the modeling workspace.
- **Material Library:** AutoCAD 2011’s material library has an expanded and enhanced set of materials that enables users to create striking visual representations of 3D models.

**Better Parametrics**
- **Inferred Constraints:** AutoCAD 2011 enables designers to infer geometric constraints in real time, eliminating the need to manually define object relationships.
- **Polyline Editing:** The improved functionality of enhanced grips makes polylines significantly easier to edit. New secondary grips provide quick access to multiple functions. Designers can now use grips to add or remove vertices and to convert straight-line segments to arcs.

**Increased Productivity**
- **Hatch Tabs:** Access the Hatch command more easily through a contextual tab, similar to the tabs for Tables and Multiline Text. Expanded object grip functionality enables direct editing of a hatch’s scale, rotation, and origin. Additional options for controlling the appearance of hatches include transparency, background colors, and gradient fills. A single command sets hatches to appear behind all other objects.
- **New Commands:** Two new commands save steps and time, speeding the process of creating or selecting objects based on the properties of existing objects. Quickly create new objects based on the properties of an existing object with the new “Add Selected” tool. The “Select Similar” tool enables quick selection of objects that include the same type and properties in the selection set.
- **Layers and Objects:** Transparency is a new variable in AutoCAD 2011 for layers and objects that gives users new options for managing the appearance of drawings. Use the new “Hide Objects” and “Isolate Objects” tools to control the visibility of objects regardless of layer, so focus remains on the objects designers need. While wipeouts or solid fills obscure information and underlays can show too prominently, transparency options allow users to easily highlight areas to make important information stand out.
- **Windows 7:** AutoCAD 2011 is optimized to leverage Windows 7 functionality.
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