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AutoCAD is used to design computer-aided drafting (CAD) drawings, especially mechanical and electrical design, but can also be used to create architectural drawings, product designs, artistic illustrations and other two-dimensional graphics. AutoCAD, like many other commercial CAD programs, is primarily used for mechanical and architectural drafting and design, though many other fields use the program such as design engineering, manufacturing, electronics and product development. The program has been available for over 30 years. The first version was designed and developed in 1982, initially known as AutoCAD. AutoCAD is now known as AutoCAD 2000, as AutoCAD released in 1996, and AutoCAD 2010, as AutoCAD released in 2012. AutoCAD is available for use on a personal computer, as well as on many mobile devices such as tablet PCs and smartphones. AutoCAD is also the name of a new data format created by Autodesk. The most common use of the format is for a computer to store and transfer drawings. 2D CAD and design AutoCAD can create 2D images, such as 2D drawings and drawings. The main purpose of 2D CAD is to help the designer draw 2D designs. The diagrams created by AutoCAD are used to show views and explain designs, so that a 3D model can be created and constructed. The applications of 2D CAD are varied, and range from military, architecture, engineering and construction to hobbyist. Architects, civil engineers and structural designers use 2D CAD to create 2D drawings of architectural or engineering structures, and to create dimensional drawings of objects. 3D models can be used as the basis for many other types of software applications, such as interior and exterior design, facility management, construction and interior design. An example of a 2D drawing is a blueprint, a drawing that shows the arrangement and dimensions of a room, typically showing walls, doors,

and rooms on a floor plan. 3D CAD and design In a 3D design, the designer creates 3D models of the parts of a car, aircraft, or other object, and then displays the model to help other designers understand the design better. Once the 3D design of the objects is complete, it is exported to a 3D CAD format, such as AutoCAD Architecture or AutoCAD LT, which can then be used to create

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Until version 13 AutoCAD was entirely command driven. Newer applications (such as AutoCAD LT) have a command line interface, accessible using the command line or a GUI. AutoCAD LT supports parametric and non-parametric commands, and uses a similar set of commands as AutoCAD. An AutoCAD application may allow users to create and modify all kinds of objects. An object can be a drawing, a blueprint, or a standard plan. Other objects include parameters, rulers, menus, views, and layers. Once an object has been created, the user may manipulate it as needed. For example, the user may change the size of a drawing, open or close an object, change its properties, or move it. AutoCAD supports 3D objects, using both 2D and 3D space. Objects can be measured, and can be inspected on a detail view or the assembly or section view, which provide a view of the details of the object. Sections are useful for making cuts and other modifications to a drawing. A set of drawing preferences may be available. The user may specify the paper orientation, the default distance for scaling, and the paper type and resolution for plotting. Preferences may be saved as user or system defaults. Autodesk Object Manager AutoCAD 2014 introduces an online service called Autodesk Object Manager (AOM). It allows web-based access to AutoCAD's features, like drawing creation, editing, viewing, and printing. AOM also offers updates, content, and other data management features. AutoCAD 2014 introduced the concept of

drawing templates. These templates are drawing elements that the user may apply as needed. They may be saved as a template.

Manipulation Objects are manipulated using the Graphical Manipulation System, which handles the spatial relationships between objects in a drawing. Objects can be dragged, repositioned, moved, rotated, and trimmed or cut. Objects can be selected and modified. Objects may be snapped to a grid.

Shape modification A drawing may be divided into two parts—the design part and the non-design part. The non-design part may be annotated with notes, dimensions, and other information. This is called annotation. The annotations may be assigned to one or more existing objects.

Other commands Additional commands are available in AutoCAD. These include using the context menu to choose from a

Upgrade from Autocad 2010 to Autocad 2012 As far as I know you have to buy the license to upgrade, but I don't know how much. The price is on the Autocad 2012 home page:

What's New in the AutoCAD?

Import and integrate feedback from paper and PDFs into AutoCAD drawings. Email documents directly from your email program, make comments in text format, or send feedback directly to AutoCAD. (video: 1:27 min.) Integrate a variety of feedback formats into your CAD drawings. Raster and vector graphics, lists, bitmaps, PDFs, and comments are all supported, and can be exported to image format to share designs with others. (video: 1:27 min.) Add comments to text boxes, labels, and other editable components. Comments are either displayed as you draw, or in a separate drawing window (“drawing tool window”), depending on the type of component. Automatically align comments to the edge of the component or object to which they are attached. (video: 1:25 min.) Create notes for reusable parts and specifications. Comments are saved automatically and can be managed from within the Notes Manager. Use existing notes, or create and manage your own custom notes. (video: 1:21 min.) Graphical layouts (GUIDEs): Generate a graphical layout to represent 2D or 3D CAD designs. Create a schematic or coordinate layout from scratch. Explore and apply geometric concepts in a graphically intuitive way. (video: 1:11 min.) Reuse and customize pre-existing layouts to create your own. Load, edit, and customize existing layouts, or create custom layouts from scratch. Export existing layouts to Visio, PDF, or other formats. (video: 1:16 min.) Editing: Paragraph, text, and column shapes. Improved

editing tools for aligning, selecting, and formatting text. Highlight and format text with text boxes. Use the new text formatting tools to align, bold, underline, and italicize text. (video: 1:11 min.) Format and edit paragraph, text, and column shapes with text formatting tools. Align, wrap, and edit text within paragraph and column shapes. Split, merge, and embed paragraph shapes. Create and modify paragraph and text styles. (video: 1:14 min.) Object Selection, Grouping, and Modification: Highlight objects and components with color, outline, or opacity. Use Selection and Masking to select and modify parts of models. Create groups and hierarchies to reorganize the selection. (video: 1:11

System Requirements:

The minimum requirements for the game are: Operating System: Windows 7, Windows 8/8.1, Windows 10 (32/64-bit) Processor: Intel Core 2 Duo / Core i5 (2.66 GHz) or AMD Athlon X2 (2.8 GHz) or better Memory: 2 GB RAM (5 GB RAM for game testing) Storage: ~8 GB free space (25 GB free space for game testing) DirectX: Version 9.0 or better

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