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As AutoCAD is a powerful and very comprehensive program with wide range of features, this tutorial is designed for anyone willing to learn AutoCAD from basic to advanced concepts and topics. The course is divided into seven chapters, and the lectures are very much self-contained. All the necessary files, required for lectures and the programming exercises, are available at the end of each chapter. A simple animation of each step of this tutorial is also available. This tutorial is tailored for Windows 10 and Windows 7 users. AutoCAD 2017/2019/R17/R19 is used for programming exercises and demonstration in this tutorial. Software Requirements You need to have AutoCAD installed on your computer, and it should be in the default path: "C:\Program Files\AutoCAD" AutoCAD 2017/2019/R17/R19 is used for programming exercises and demonstration in this tutorial. Download this AutoCAD tutorial from our link at the end of this tutorial. Autodesk® AutoCAD® 2017/2019/R17/R19 Tutorial - Hello World Table of Contents 1. What is AutoCAD? 2. What is a CAD application? 3. Major AutoCAD features 4. User Interfaces 5. Types of drawing 6. Text and blocks 7. Colors, linetypes, and lineweights 8. Alignment, rotation, and dimensioning 9. Drawing guidelines 10. Other symbols 11. Groups 12. Precision and drawing units 13. 3D tools 14. Scaling and transformations 15. Polar axes, azimuthal axes, and orthogonal grids 16. Methods 17. AutoCAD commands 18. Tips and tricks 1. What is AutoCAD? AutoCAD is a CAD application used for design and drafting. More than 70,000 engineers and architects use AutoCAD to create 2D and 3D drawings in various industries like automotive, construction, civil, electronics, energy, manufacturing, etc. AutoCAD is also used to model parts and assemblies in the 3D modeling application. You can model an assembly using parts and assemblies within a single file. For this

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3D models can be imported into the drawing environment and appear in the same location as all other objects in the drawing. Many users find AutoCAD's 3D features to be very flexible and powerful. It is also notable that AutoCAD can produce accurate 2D drawings from 3D models. History In 2006, the VB script dialect Visual Basic for Applications (VBA) was added to AutoCAD, being available in the software since AutoCAD 2000. With AutoCAD 2010, C++ became the first programming language to

be fully integrated into AutoCAD for authoring applications and for creating components. As of AutoCAD 2016, C++ development was available in the new V12 product line. To save time and avoid re-doing work, AutoCAD supports managing multiple versions of drawing files for projects. This makes it easier for users to create a new copy of a project they are working on without the need to duplicate everything in a different file. Using the Edition Manager, users can create multiple projects, editions and drawings from one template. With AutoCAD 2018, the product's native XML data format was changed to the MSCADB (Modified Structured CADB) format. AutoCAD and MSCADB were superseded by the native.mscad file format in AutoCAD 2019. With AutoCAD 2020, the native file format for AutoCAD is.xar. The native XML data format is known as AcXML. The drawing and model file formats supported by AutoCAD are

AutoCAD.dwg,.dwgx,.dwfx,.pdf,.sldprn,.sldprt,.sldprv,.sldipt,.sldirn,.sldirm,.mscadb, and.mscadbx. From AutoCAD 2016, a new project system, called Project Browser, was introduced which groups objects into categories, such as utilities, structures, and foundations. This was intended to make it easier for the user to search and work with all objects in a project. In 2018, Project Browser was expanded to include separate project locations for different users. This feature is called "collaborative project workspace." Autodesk launched its 360-degree program, Autodesk 360, in 2017. Autodesk 360 is a collaboration app that allows teams to work

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Example: Importing a Project into AutoCAD using AutoIt

What's New in the AutoCAD?

New Annotations and Annotations Editor: Annotations are an essential tool in the design process. Annotation groups can now be ordered in an array and the array can be ordered to match a palette. (video: 2:12 min.) Project Markup: Share project information with team members. Project files can be opened in other applications, saving time and ensuring that design data is securely shared. (video: 1:45 min.) Improved Unicode Support: If you use the Unicode character set, your drawings will display more clearly on screens with Unicode support. Maximize your drawing: When you scale a drawing or rotate a group of objects, AutoCAD will keep the drawing, groups and layer properties the same. (video: 1:03 min.) Build & Test new features: You can now use the “Build & Test” feature to find common errors in your drawings. Build & Test allows you to view the error onscreen and make changes before you commit to drawing or exporting your drawings. (video: 2:20 min.) More efficient shading: AutoCAD uses a new shading engine that incorporates changes to improve efficiency and enable better shading results. (video: 1:30 min.) Layers: Use the layer panel to view, edit, and update properties of layers. Now you can edit attributes for any layer in the panel (such as color, linetype, linewidth, and texture), including geometry and color fill. (video: 1:21 min.) Enhanced 2D Drafting: Drafting tools will now place points on the plan using improved accuracy, and they will place points and lines with fewer steps. Vector Infographics: Drawings can be used as visual aids for data and information. Dynamic infographics can be created in AutoCAD using 2D vector graphics, or you can import 2D vector graphics and convert them to AutoCAD. (video: 1:15 min.) 2D drawing views: You can now view a 2D drawing as a 2D surface, or as a CAD surface. (video: 1:39 min.) Importing drawings: When you import external drawings, you can view the drawing and import settings. You can also choose to include the project

System Requirements For AutoCAD:

Product Minimum OS: macOS 10.13.3 (High Sierra) or Windows 10 Memory: 16GB RAM Processor: Intel Core i3 (2.4GHz) or AMD equivalent Graphics: Nvidia GeForce GTX 1050 or AMD equivalent Video: 1024x768 Recommended Processor: Intel Core i5 (2.8GHz) or AMD equivalent Graphics: Nvidia GeForce GTX 1050 or AMD

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