Complete AutoCAD Commands

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| Command | Description | Options |
| ABOUT | Displays a dialogue box with AutoCAD version & serial numbers | can be transparent |
| APERTURE | Controls the size of the Object Snap "OSNAP") target box -- should set to **7** | can be transparent |
| ARCor A | Draws an arc. The default method of drawing arcs is selecting three points (so-called "3 point arc"), which are the two endpoints of the arc and some other point along its locus. Other methods of drawing an arc can be specified by three letters, such as SEA, which means "Start Point, End Point, and Included Angle." | A Included angleC Center point of arcD Direction angle of a line tangent to the arcE Endpoint of arcL Length of chord passing thru both endpoints of the arcR RadiusS Start point of arc<RET> uses the end of the last line or arc as the start point for the arc |
| AREA | Computes the area of any shape by selecting points at the corners of the shape, or by selecting a circle or polyline after typing or picking the "E" option | A sets "Add" modeS sets "Subtract" modeE computes area of selected circle or polyline |
| ARRAY | Makes multiple copies of selected objects in a rectangular (parallel with the snap rotation) or circular pattern | R rectangular array typeP "polar" array type in circular pattern, you must indicate number of items and angle to fill, and whether the objects get rotated with the angleC "circular" array type in a circular pattern, you must indicate angle between items, angle to fill, and whether objects get rotated with the angle |
| ATTDEF | Creates an attribute definition entity for textual information to be associated with a block definition | I Controls attribute visibilityC Controls Constant/variable modeV Controls verify modeP Controls preset mode |
| ATTDISP | Controls the visibility of attribute entities on a global basis | can be transparentON Makes all attributes visibleOFF Makes all attributes invisibleN Visibility of attributes set individually |
| ATTEDIT | Permits editing of attributes |   |
| ATTEXT | Extracts attribute data from drawings | C CDF comma delimited format extractD DXF format extractS SDF format extractE Extracts attributes from selected entities |
| AUDIT | Invokes drawing integrity audit | Y Fixes errors encounteredN Reports, but does not fix errors encountered |
| BASE | Specifies origin of current drawing for subsequent insertion into another drawing -- is normally set to point 0,0,0 | can be transparent |
| BHATCH | Fills an automatically defined boundary with a hatch pattern through the use of dialogue boxes. Also allows previewing and replacing adjustments without starting over each time. |   |
| BLIPMODE | Controls display of marker blips for point selection | can be transparentON Enables temporary marker blipsOFF Disables temporary marker blips |
| BLOCK | Forms a single compound entity from a group of entities within the current drawing | ? Lists names of already-defined blocks in the current drawing |
| BPOLY | Creates a closed polyline of a boundary by picking an open area within a area enclosed by lines, arcs or circles. |   |
| BREAK | Erases part of a line, arc or circle, or splits it into two lines or arcs | F allows respecification of first point |
| CHAMFER | Creates a chamfer (a angled line connection) at the intersection of two lines | D Sets chamfer distancesP Chamfers an entire polyline |
| CHANGE | A multifunctioning command which can be used to alter the following:1. location of individual endpoints of lines2. radius of a circle3. properties: layer, elevation, thickness, color and linetype of lines, polylines, arcs and circles4. style, font, size, location, rotation, and wording of text entities | P Changes properties of objectsC ColorE ElevationLA LayerLT LinetypeT Thickness |
| CHPROP | Modifies properties of selected objects: layer, thickness, color and linetype -- but not elevation | C ColorLA LayerLT LinetypeT Thickness |
| CIRCLEorC | Draws a circle of any size. The default method is to pick a center point and pick a point on the radius or type the radius dimension, but other methods can be selected. | 2P Specifies circle by picking 2 points on the diameter3P Specifies circle by picking 3 points through which the circle will passD Allows entering the diameter dimension instead of radius dimensionTTR Specifies circle by picking two lines, arcs or circles for the circle to be tangent to, and entering the dimension of the radius<RET> Enters radius of circle (the default) |
| COLORor COLOUR | Sets the current color for subsequently drawn objects (objects drawn after the command is invoked). The default current color is a so-called "logical" color called "BYLAYER" which means that the color of the object drawn will be the color which the current layer has been set to. | can be transparent<number> sets current color to color number entered<name> sets current color to color name enteredBYBLOCK sets floating entity color BYLAYER sets current color to whatever color is assigned to the current layer |
| COMPILE | Compiles shape and font files More than likely, you will never use this command, unless you are creating your own letter design or are creating "shapes" to be used as commonly used symbols in the drawing. These are not typically used in architectural drawings |   |
| CONFIG | Displays options to allow you to reconfigure the video display, digitizer, plotter, and operating parameters.You should not have to use this command, since the configuration of your system has already been done and you will have no need to change it. |   |
| COPYorCP | Draws a copy of selected objects using two methods -- "base point" method, or "displacement" method. | M Allows multiple copies to be made of an object |
| DBLIST | Lists database information for every entity in the drawing |   |
| DDATTDEF | Displays a dialogue box that allows creation of an attribute definition for textual information to be associated with a block definition | I Controls attribute visibilityC Controls Constant/variable modeV Controls verify modeP Controls preset mode |
| DDATTE | Allows attribute editing via a dialogue box |   |
| DDATTEXT | Displays a dialogue box that extracts data from a drawing.  | C CDF comma delimited format extractD DXF format extractS SDF format extractE Extracts attributes from selected entities |
| DDCHPROP | Displays a dialogue box that modifies the color, layer, linetype, and thickness of selected objects | C ColorLA LayerLT LinetypeT Thickness |
| DDEDIT | Allows text and attribute definition editing  | Undo Undoes edit to return to the previous value |
| DDEMODES | Sets current entity properties (layer, linetype, elevation, thickness, and text style) via a dialogue box | can be transparent |
| DDGRIPS | Allows you to enable grips and set their colors and size via a dialogue box | can be transparent |
| DDIM | Controls dimensioning variables through a series of dialogue boxes | can be transparent |
| DDINSERT | Allows you to insert a previously made block or file into the current drawing, select X- and Y- scale factors, rotation angle, pre-explode the block, and select the insertion point, through a dialogue box |   |
| DDLMODES | Sets layer properties and allows you to set the current layer, create a new layer, freeze and thaw layers, freeze and thaw layers in the current viewport, assign or reassign colors and linetypes to layers, through a dialogue box | can be transparent |
| DDOSNAP | Allows you to set running OSNAPS and set the size of the target box aperture through a dialogue box. | can be transparent |
| DDRMODES | Allows you to set drawing aids variables through a dialogue box | can be transparent |
| DDRENAME | Allows you to rename layers, text styles, linetypes, blocks, views, User Coordinate Systems, viewport configurations, and dimension styles |   |
| DDSELECT | Allows you to set entity selection modes, size of the pickbox, and entity sort method through a dialogue box | can be transparent |
| DDUCS | Allows you to save the current User Coordinate System and give it a name for future retrieval, or to select a UCS that is already saved |   |
| DDUNITS | Allows you to set the unit type (Architectural or Decimal), angle display format (degrees-minutes-seconds, or decimal degrees), and precision of the units,  | can be transparent |
| DELAY | This command is used with SCRIPT files. It will delay the execution of the next command for the time in milliseconds specified after the DELAY command. | can be transparent |
| DIM | Takes you out of the drawing editor and into the semi-automatic dimensioning program built into AutoCAD. Will display a **Dim:**prompt on the command prompt line. To get back to the drawing editor and the **Command:** prompt, type the <Esc> key. |   |
| DIM1 | Same as above, but only allows one dimensioning command to be used, and then takes you automatically back to the drawing editor and the Command: prompt. |   |
| DIMALIGNED | **Dimensioning sub-command:****Draws a linear dimension with the dimension line parallel to the selected dimension origin points. This lets you align a dimension with an angled line that is not either exactly horizontal or vertical.** |   |
| DIMANGULAR | **Dimensioning sub-command:****Draws an arc and calculates the angle between two non-parallel lines, and draws the text and arrowheads. Arrowheads are the standard AutoCAD filled triangles, regardless of your defined Arrow Block.** |   |
| DIMBASELINE | **Dimensioning sub-command:****Continues a linear dimension from the baseline (the so-called "first extension line") of the previous or selected dimension. This is not frequently used in architectural dimensions. The spacing between each dimension line is controlled by the AutoCAD variable DIMDLI ("Dimension Line Increment"), which you should set at 0 normally, but if you use the baseline command, you should reset to 1/8".** |   |
| DIMCENTER | **Dimensioning sub-command:****Draws a pair of crossed lines at the center of a circle or arc on the current layer** |   |
| DIMCONTINUE | **Dimensioning sub-command:****Continues a linear dimension from the second extension line of the previous or selected dimension. It is used to create a so-called "string" of dimensions. This is used quite a bit in architectural drawings.** |   |
| DIMDIAMETER | **Dimensioning sub-command:****Draws a dimension through the center of a circle or arc, calculating the diameter, with one of the arrow heads located at the point on the circle or arc which is picked.** |   |
| DIMEXIT | **Dimensioning sub-command:****Exits the dimensioning program and returns from the Dim: prompt to the normal Command: prompt** |   |
| DIMHOMETEXT | **Dimensioning sub-command:****Restores the text of an associative dimension to its default (home) location if you have moved it.** |   |
| DIM HORIZONTAL | **Dimensioning sub-command:****Draws a horizontal linear dimension line** |   |
| DIMLEADER | **Dimensioning sub-command:****Draws an a line or series of lines with an arrow head (commonly called a "leader") to point to an object to notate it. This command will also prompt you for the note at the end of the leader line, but it will allow only one line of text. The most useful method of using this command is to simply draw leaders between the object to be notated and text that you create with the DTEXT command.** |   |
| DIMNEWTEXT | **Dimensioning sub-command:****Permits changing text of an associative dimension without exploding it. However, once the text has been changed, the dimension will no longer be associative.** |   |
| DIMOBLIQUE | **Dimensioning sub-command:****Adjusts the obliquing angle of a linear associative dimensionsâ extension lines. Useful in dimensioning isometric drawings.** |   |
| DIMORDINATE | **Dimensioning sub-command:****Draws the X and Y coordinates within a box with a leader line attached to the point, for a selected point. Automatically calculates the coordinates.** |   |
| DIMOVERRIDE | **Dimensioning sub-command:****Overrides the dimension variable settings on a selected dimension.** |   |
| DIMRADIUS | **Dimensioning sub-command:****Draws the radius dimension of an arc or circle from the center to the point on its locus where the arc or circle was selected.** |   |
| DIMREDRAW | **Dimensioning sub-command:****Redraws the viewport, just like the regular REDRAW command.** |   |
| DIMRESTORE | **Dimensioning sub-command:****Makes a dimension style current** |   |
| DIMROTATE | **Dimensioning sub-command:****Draws a linear dimension with the distance measured origin points, but with the actual dimension line set at a different angle.** |   |
| DIMSAVE | **Dimensioning sub-command:****Saves the currently set dimension variables under a dimension style name for future retrieval through the RESTORE command.** |   |
| DIMSTATUS | **Dimensioning sub-command:****Lists all dimension variables with their current status.** |   |
| DIMSTYLE | **Dimensioning sub-command:****Switches to a new Text Style for all future dimensions.** |   |
| DIMTEDIT | **Dimensioning sub-command:****Allows moving text in associative dimensions without having to explode the dimensions.** |   |
| DIMTROTATE | **Dimensioning sub-command:****Allows rotation of the text of several associative dimensions at once.** |   |
| DIMUNDO | **Dimensioning sub-command:****Undoes any changes made by the most recent dimensioning command.** |   |
| DIMUPDATE | **Dimensioning sub-command:****Changes selected associative dimensions to use the current dimension variables, the current text style, and the current units setting.** |   |
| DIMVARIABLES | **Dimensioning sub-command:****Lists the settings of dimension variables associated with a particular dimension style.** |   |
| DIMVERTICAL | **Dimensioning sub-command:****Draws a vertical linear dimension line** |   |
| DIST | Finds distance between two points | can be transparent |
| DIVIDE | Places points along a line, polyline, arc, or circle, dividing it into the specified number of equal parts  | B Uses a specified Block to divide the object instead of a point |
| DONUTor DOUGHNUT | Draws filled rings with specified inside and outside diameters |   |
| DRAGMODE | Allows control of dynamic dragging feature for copy and move commands | can be transparentON Makes dragging of object visibleOFF Disables visual draggingA Auto mode -- enables dragging when possible |
| DTEXT | Draws text "Dynamically" so that as you enter text letters or numbers, they are visible on the screen | J Prompts for Justification optionsS Allows you to select text styles that are already createdA Aligns text between two points, with style-specified width factor, AutoCAD adjusts height to keep letter proportion as designated in the style.C Centers text horizontallyF Fits text between two points, with a specified height, AutoCAD adjusts width of letters to fitM Centers text horizontally and verticallyR Right-justifies textBL Bottom-left justificationBC Bottom-center justificationBR Bottom-right justificationML Middle-left justificationMC Middle-center justificationMR Middle-right justificationTL Top-left justificationTC Top-center justificationTR Top right justification |
| DVIEW | Allows perspective viewing of drawing | CA Sets CAmera angle relative to the TargetT Sub-option, toggles between angle in the X-Y plane, and angle from the X-Y planeCL Sets Front and Back CLipping planesD Sets Camera to Target distance and turns on Perspective viewingH Removes hidden lines on the selection setOFF Turns Perspective viewing offPA PAns drawing across the screenPO Allows specification of Camera and Target pointsTA Rotates the TArget point about the CameraT Sub-option, toggles between angle in the X-Y plane, and angle from the X-Y planeTW Twists the view around the line of sightU Undoes a DVIEW sub-commandX Exits the DVIEW commandZ Sets lens length |
| DXBIN | Inserts specially coded binary files into the drawing |   |
| DXFIN | Loads a drawing interchange file (DXF file) to be able to read a drawing file created by another CAD program |   |
| DXFOUT | Writes a drawing interchange file (DXF file) to be able to use an AutoCAD drawing in another CAD program | B Writes binary DXF fileE Outputs selected entities only(0-16) Floating point precision |
| EDGESURF | Constructs a 3d Polygon mesh approximating a Coons surface patch interpolated between 4 adjoining edges |   |
| ELEV | Sets Elevation (distance above the ground plane) and Thickness (extruded distance from the bottom of an object to the top) for subsequently drawn entities |   |
| ELLIPSE | Draws ellipses | C Allows specification of Center point of ellipse rather than first axis endpointR Allows specification of eccentricity rotation rather than length of second axisI Draws Isometric circle in current isoplane |
| END | Saves the drawing and exits AutoCAD back to DOS or WINDOWS |   |
| ERASEorE | Erases selected entities from the drawing |   |
| EXPLODE | Separates a block, dimension or hatch pattern into its constituent entities or makes a polyline into a series of straight lines. In the case of a block that is exploded, if it was originally drawn on the 0 layer, it returns to that layer, regardless of the layer it was inserted on, and it loses its referential connection to the original block. In the case of a dimension or hatch pattern that has been exploded, their parts go back to the 0 layer, and are assigned the logical color (BYBLOCK) regardless of the layer they were drawn on. In the case of an exploded polyline, it loses any width it may have had. |   |
| EXTEND | Lengthens a line, arc, or polyline to meet a specified "boundary edge" | U Undoes effect of last Extend command |
| FILES | Allows DOS disk and file utility tasks to be done through a dialogue box | can be transparent |
| FILL | Controls whether solids, traces, wide polylines, and donuts will be filled with ink. Note that fill is only visible when viewing these entities in plan (perpendicular to line of sight) | can be transparentON entities visually filled with solid inkOFF entities not visually filled but are shown in outline only |
| FILLET | Constructs an arc of specified radius between two lines, arcs, circles, or will create arcs of the specified radius at the vertices of a polyline. Radius of the arc to be constructed may be set to 0, which will make a sharp corner | P Fillets an entire Polyline at the verticesR Allows setting of the fillet radius. Default value is 0. Radius remains set until changed again |
| FILMROLL | Generates a file for rendering by AutoShade, a separate program |   |
| GRAPHSCR | A "toggle." Flips the display on single-screen systems (most of them) from text-screen to graphics-screen, and vice-versa.  | can be transparent |
| GRID | Displays a rectangular grid of white dots on the screen at a specified X- and Y- spacing | can be transparentON Turns grid display onOFF Turns grid display offS Locks grid spacing to SNAP resolutionA Sets grid aspect (different X- and Y- spacings<number> Sets grid spacing for both X- and Y- coordinates<number X> Sets grid spacing to multiple "X" of snap spacing |
| HANDLES | Assigns a unique, permanent number to each entity of the drawing | ON Enables HandlesDESTROY Discards all entity Handles |
| HATCH | Allows drawing of cross-hatching and pattern filling | <pattern-name> uses hatch pattern name from library file to fill designated area with a pseudo-block hatch entity -- can be reduced to individual lines and points by EXPLODEing it.<\*pattern-name> uses hatch pattern name from library file to fill designated area with individual lines and points, not a blockU "User-defined" hatch pattern drawn of parallel lines with a specified distance between, at a specified angle, and either single-hatching or double (cross)-hatching? Lists names of available hatch patterns<pattern-name> or U can be followed by a comma and the following sub-commands:I Ignores any boundaries inside the outermost boundaryN Normal style of selecting boundaries with alternating hatched and unhatched nested areasO Hatches outermost boundary area only |
| HELPor? | Displays a list of all valid commands and data entry options, or obtains help for a specific command or prompt | can be transparentif invoked while another command is in process, it will assume that you want help on that command |
| HIDE | Regenerates a 3d visual image of the drawing with hidden lines removed |   |
| ID | Displays the X,Y, and Z coordinates of a point selected | can be transparent |
| IGESIN | Loads an IGES interchange file |   |
| IGESOUT | Writes an IGES interchange file |   |
| INSERT | Inserts a previously created block or drawing file into the current drawing | <filename> Inserts a filename from the default directory into the current drawing, assuming that there is no block by that name in the current drawing<blockname>=<filename> Creates a block in the current drawing with the same name as the file<\*name> Inserts a block in its constituent entities rather than as a block -- also called a "Star Block" or Pre-exploded blockC Reply to X scale prompt -- allows scale to be specified by two points (Corner specification of scale)XYZ Reply to X scale prompt -- allows specification of X, Y, and Z scales~ Displays a file dialogue box? Lists names of defined blocks within the current drawing |
| ISOPLANE | Selects the plane of an isometric grid to be the current plane for an orthogonal drawing | can be transparentL Left planeR Right planeT Top plane<RET> Toggle to next plane in series, Left, Right, and Top |
| LAYERorLA | Creates named drawing layers, assigns color and linetype properties to those layers, allows layers to be frozen and thawed, locked and unlocked, and allows current layer to be set | can be transparentC Assigns color to named layerF Freezes named layers (comma separates a list of layers to be frozen, \* can be used as a wildcard) -- current layer cannot be frozenL Assigns linetype to named layerLO Locks named layer M Makes a layer -- creates a new layer and makes it the current layerN Creates new layers with named names (comma separates a list of layers to be created, \* can be used as a wildcard)ON Turns named layers on if they were turned off (comma separates a list of layers to be turned on, \* can be used as a wildcard)OFF Turns named layers off if they were turned on (comma separates a list of layers to be turned off, \* can be used as a wildcard) |
| LAYERorLA(Continued) |   | S Sets named layer as the current layerT Thaws named layers which are frozen (comma separates a list of layers to be frozen, \* can be used as a wildcard)U Unlocks named layer? Gives information about named layers, \* can be used as a wildcard |
| LIMITS | Changes the imaginary boundaries of the drawing, and controls whether drawing can be made outside of the boundaries. If Limit-checking is ON, drawing cannot be done outside of limits. | can be transparent<2 points> Sets lower-left and upper -right drawing limitsON Enables limit-checkingOFF Disables limit-checking |
| LINEorL | Draws straight lines | <RET> In reply to **From Point**: prompt, line begins at end of previous line or arcC In reply to **To point:** prompt, closes the polygon back to first "From Point"U In reply to **To point:** prompt, undoes last line segment |
| LINETYPE | A linetype is a series of lines and spaces -- dots and dashes --Sets the current linetype to be used for all subsequent entities to be drawn, allows creation of new linetype definitions, and allows loading of previously created linetypes from DOS files | can be transparent? Lists a linetype library , or named linetypes which are loadedC Creates a linetype definitionL Loads a previously creatred linetype definitionS Set current linetype -- note that the current linetype should always be set to the logical linetype "BYLAYER" |
| LIST | Lists all information about selected object, such as what type of entity it is (Line, Arc, Circle, Block, etc.), what layer it is on, what color it is, the location of its endpoints, what its Z-axis (elevation), what its thickness is, etc. |   |
| LOAD | Loads a file of user-defined shapes to be used with the Shape command | ? Lists the names of loaded Shape files |
| LTSCALE | Sets scale factor to be applied to all linetypes within the drawing | can be transparent |
| MEASURE | Places points (or, optionally, Blocks) at intervals along a selected line, polyline, arc or circle. The interval distance is given by the user. If points are used as the marker to be placed along the entity, they are not visible unless the Point type is set to type 3 with the PDMODE command. | B specifies that a defined Block is to be used as a marker instead of a point. |
| MENU | Loads a Menu file into the menu areas (Screen, pull-down, tablet, and button) |   |
| MINSERT | Inserts multiple copies of a Block in a rectangular pattern (word stands for "Multiple Insert." The entire array created then becomes a Block. | fname Loads fname and forms a rectangular array of the resulting Blockfname=f Creates Block fname from file f and forms a rectangular array? Lists names of defined Blocks within the drawingC (as a reply to X scale prompt) specifies scale via two selected points ("Corner" specification of scale)XYZ (as a reply to X scale prompt) readies Minsert for X, Y, and Z scales)- displays a file dialogue box |
| MIRROR | Reflects designated entities about a user-specified axis |   |
| MOVEorM | Moves designated entities to another location |   |
| MSLIDE | Makes a slide from the current display. Slide shows the drawing only, and not the UCSICON, the Toolbar, the Aerial View or menus. |   |
| MSPACE | Switches to Model Space |   |
| MULTIPLE | Causes the next command to repeat until cancelled |   |
| MVIEW | Creates and controls Viewports | ON Turns selected Viewports on and causes the Model to be regenerated in the selected Viewports.OFF Turns selected Viewports off and causes Model to be not displayed in the selected Viewports.Hideplot Causes hidden lines to be removed in selected Viewports during Paper Space plotting.Fit Creates a single Viewport to fit the current Paper Space view2 Creates 2 Viewports in specified area or fit to the current Paper Space view.3 Creates 3 Viewports in specified area or fit to the current Paper Space view.4 Creates 4 Viewports in specified area or fit to the current Paper Space view.Restore Translates viewport configurations saved with the VPORTS command into individual Viewport entities in Paper Space.<first Point> Creates a new Viewport within the area specified by 2 points.Sub-options to the "2" Option:Horizontal Creates a horizontal division between the 2 new ViewportsVertical Creates a vertical division between the 2 new Viewports.Sub-options to the "3" Option:Above Specifies placement of larger Viewport above the other 2Below Specifies placement of larger Viewport below the other 2Horizontal Splits area into thirds horizontallyLeft Specifies placement of larger Viewport to the left of the other 2Right Specifies placement of the larger Viewport to the right of the other 2Vertical Splits area into thirds vertically |
| NEW | Creates a new drawing. When selected from a menu or typed in at the Command: prompt, this command brings up a dialogue box which allows setting a name for the new drawing by typing the name in the box, selection of a "prototype" drawing or typing a name of the new drawing and then an = sign and then the name of a drawing to be used as a prototype. |   |
| OFFSET | Creates a new line, polyline arc or circle parallel to the entity and at a specified distance from it. | <number> specifies offset distanceT "Through" allows specification of a point through which the offset line, polyline, arc or circle is to pass |
| OOPS | restores erased entities, or entities made into a Block |   |
| OPEN | Opens an existing drawing |   |
| ORTHO | Constrains drawing so that only lines aligned with the grid can be drawn -- usually means only horizontal or vertical lines, however, if the crosshairs are rotated through the "Snap" "Rotate" command sequence, the lines drawn are constrained to being parallel with the crosshair rotation. Constraint can be overridden by snapping to a point or by entering exact coordinates for endpoints. | can be transparent |
| OSNAP | Enables points to be precisely located on reference points of existing objects. This is the so-called "Running Mode" of OSNAP, which sets selection method to run continuously until set to NON (none) or until overridden by selecting another "Interrupt Mode" OSNAP method from the cursor menu. Combinations of OSNAP methods can be used by selecting a series of options separated by commas. For instance, if you want ot always pick either endpoints or intersection points when locating endpoints of lines, you would issue the command as follows:**OSNAP <RET> END,INT <RET>** | can be transparentCEN CENter of arc or circleEND closest ENDpoint of arc or lineINS INSertion point of Text or BlockINT INTersection of line, arc, or circleMID MIDpoint of line, arc, rectangle side, or polygon sideNEA NEArest point selected by aperture on line, polyline, arc, or circleNOD NODe (another name for a Point)NON NONe -- used when a "Running OSNAP" is on to temporarily turn off OSNAP selectionPER PERpendicular point to line, arc or circle -- when used with an arc or circle it will draw a line to the surface of the arc or circle heading toward the center pointQUA QUAdrant point of arc or circle (top, bottom, right or left side)QUI QUIck mode -- this is a modifier to one of the other OSNAP options -- it will find the first point that meets the requirements, not necessarily the closest point to the aperture.TAN TANgent point to arc or circle |
| PAN | Moves the display window without changing the magnification factor | can be transparent |
| PEDIT | Allows editing of polylines which are already drawn | C Closes an open polylineD Decurves, or returns a Spline curve to its control frame or series of connected straight linesE Edit verticesF Fits curve to a polyline -- makes a series of straight lines into a curve which will pass through the verticesJ Joins a line or arc or another polyline to an open polylineL Toggles linetype generation to be either a continuous pattern of dashes passing through the vertices, or a pattern which starts and ends at each vertexO Opens a closed polylineS Uses the polyline vertices as a frame for a Spline Curve -- type of Spline Curve is set by the Variable "Splinetype."U Undoes one editing operationW Sets a uniform width for the Polyline |
| PEDIT (Continued) |   | Vertex Editing Options:B Sets first vertex for BreakG "Go" -- performs a Break or Straighten operationI Inserts a new vertex after current oneM Moves current vertexN Makes the Next vertex currentP Makes the Previous vertex currentR Regenerates the PolylineS Sets first vertex for StraightenT Sets tangent direction for current vertexW Sets new width for the following segmentX Exits vertex editing, or cancels Break and Straighten |
| PEDIT Mesh | Allows editing of Meshes which are already drawn | D De-smooth -- restores original meshE Edits mesh verticesM Opens (or closes) the mesh in the M directionN Opens (or closes) the mesh in the N directionS Fits a smooth surface as defined by the Variable SURFTYPEU Undoes one editing operationX Exits Pedit commandVertex Editing Options:D Makes previous vertex Down in M direction currentL Makes previous vertex to Left in N direction currentM Moves the marked vertexN Makes the Next vertex currentP Makes the Previous vertex currentR Makes next vertex to Right in N direction currentRE Redisplays the polygon meshU Makes the next vertex Up in M direction currentX Exits vertex editing |
| PFACE | Creates a 3D mesh of arbitrary complexity and surface characteristics |   |
| PLAN | Puts the display in "Plan" view, with Vpoint set to 0,0,1, relative to either the current UCS, a specified UCS, or the World Coordinate System  | C Establishes the Plan view of the Current UCSU Establishes the Plan view of a specified UCSW Establishes the Plan view of the World Coordinate System |
| PLINE | Draws a 2D polyline, which are connected line or arc segments with user-determined width and taper | H sets the half-width of the polyline segmentsU Undoes previous segmentW sets the width of polyline segments<RET> Exits the Pline commandThe following options are available only as long as you are drawing in Line mode:A Switches to the Arc mode to allow integration of arcs into the polylineC Closes the polyline with straight segmentL Segment length (continues previous segment)The following options are available only as long as you are in the Arc mode:A Included angleCE Center PointCL Closes with arc segmentD Starting directionL Chord length, or switches to line modeR RadiusS Second point of 3-point arc |
| PLOT | Plots a drawing to a plotting device, a printer, or to a "Plot File."  |   |
| POINT | Draws single points. Appearance of the points is set by the Variable PDMODE |   |
| POLYGON | Draws regular polygons with a specified number of sides. Polygons are Polyline entities. | E Specifies size and rotation of polygon by picking endpoints of one edgeC Circumscribes polygon around a circleI Inscribes polygon within a circle |
| PSDRAG | Controls the appearance of an imported Postscript image that is being "dragged" (that is, positioned and scaled) into place by the PSIN command | 0 Only the imageâs bounding box is displayed as you drag it into place1 The complete rendered PostScript image is displayed as you drag it into place |
| PSFILL | Fills 2D Polyline outlines with PostScript fill patterns defined in the ACAD.PSF file | . Entering a period results in no fill pattern? Lists the fill patterns defined in ACAD.PSF file |
| PSIN | Imports Encapsulated PostScript (EPS) files |   |
| PSOUT | Exports the current view of your drawing to an Encapsulated PostScript (EPS) file |   |
| PSPACE | Switches to Paper Space -- this will work only if the Variable TILEMODE is set to 0. |   |
| PURGE | Removes unused Blocks, Text Styles, Layers, Linetypes, and Dimension Styles from current drawing | A Purges All unused named objectsB Purges unused BlocksD Purges unused DimstylesLA Purges unused LAyersLT Purges unused LinetypesSH Purges unused Shape filesST Purges unused Text Styles |
| QSAVE | Saves the current drawing "Quickly" without requesting a filename (as long as file has already been given a name) |   |
| QTEXT | Controls display of text -- command stands for "QuickTEXT" | ON Lines of text displayed as rectanglesOFF Lines of text displayed as text |
| QUIT | Exits AutoCAD -- if the current drawing has not been Saveds in its current state, a dialogue box will appear asking if you want to Save the drawing, Discard the changes, or Cancel the Exit command |   |
| RECOVER | Attempts to recover damaged or corrupted drawings |   |
| REDEFINE | Restores a built-in command which may have been deleted by the command UNDEFINE |   |
| REDO | Reverses a previous command if it was U or UNDO |   |
| REDRAW | Refreshed or cleans up the current Viewport | can be transparent |
| REDRAWALL | Redraws all viewports | can be transparent |
| REGEN | Regenerates the current Viewport by recalculating the vector locations of all endpoints |   |
| REGENALL | Regenerates all Viewports |   |
| REGENAUTO | Controls automatic regeneration performed by other commands | can be transparentON Allows automatic regensOFF Prevents automatic regens |
| REINIT | Allows the I/O ports, the digitizer, the display, the plotter, and the ACAD.PGP file to be reinitialized. This command allows selection of what you want to reinitialize through a dialogue box. It is most useful when you make changes "on the fly" to the ACAD.PGP file and want to immediately make use of those changes without having to exit AutoCAD and get back into it. |   |
| RENAME | Changes the names associated with Text Styles, Layers, Linetypes, Blocks, Views, User Coordinate Systems, Viewport Configurations, and Dimension Styles. | B Renames BlocksD Renames Dimension StylesLA Renames LayersLT Renames LinetypesS Renames Text StylesU Renames UCSVI Renames ViewsVP Renames Viewports |
| RESUME | Resumes an interrupted command script | can be transparent |
| REVSURF | Creates a 3D polygon mesh approximating a surface of revolution, by rotating a curve around a selected axis |   |
| ROTATE | Rotates existing objects parallel to the current UCS |   |
| RSCRIPT | Restarts a command script from the beginning |   |
| SAVE | Requests a filename and saves the drawing |   |
| SAVEAS | Same as SAVE, but also renames the current drawing and keeps the new name current |   |
| SCALE | Alters the size of existing objects | R Resizes with respect to a reference size |
| SCRIPT | Runs a command script. A script is a an ASCII file which contains various commands that when executed operates just as if you typed in those commands, one by one, by hand | can be transparent |
| SELECT | Groups objects into selection sets for use in subsequent commands |   |
| SETVAR | Allows you to display or change the setting of system variables. This command is no longer necessary to change the value of system variables. You now can type in the name of the variable to change it. | can be transparent? Lists specified (or all) system variables and their settings |
| SH | Short for "SHell." Allows access to internal operating system (DOS) commands. Once SH is invoked, followed by two <RET>s, the DOS Prompt will be displayed, so you can enter any DOS command. To get back to AutoCAD, simply type EXIT at the DOS prompt. |   |
| SHADE | Shades 3D model in current Model Space Viewport |   |
| SHAPE | Draws predefined Shapes | ? Lists available Shape names |
| SHELL | Allows access to internal operating system (DOS) commands. Once SH is invoked, followed by two <RET>s, the DOS Prompt will be displayed, so you can enter any DOS command. To get back to AutoCAD, simply type EXIT at the DOS prompt. |   |
| SKETCH | Permits freehand sketching simulation | C Connect: restarts SKETCH at endpointE Erases (backs up over) temporary linesP Raises/lowers sketching penQ Discards temporary lines, remains in SKETCHR Records temporary lines, remains in SKETCHX Records temporary lines, exits SKETCH. Draws line to current point |
| SNAP | Specified a round-off interval for point entry so that entities can be placed at precise locations | can be transparent<number> sets snap alignment resolutionON aligns designated pointsOFF does not align designatged pointsA sets aspect ratio (differing X and Y spacing)R Rotates the snap grid and crosshairs, and turns on SNAP after, if not already turned onS Selects either Standard (rectangular) or Isometric Snap grid |
| SOLID | Draws filled polygons. Fill can be turned ON or OFF with the FILL command |   |
| STATUS | Displays drawing statistics and modes on the Text Screen | can be transparent |
| STRETCH | Allows moving a portion of a drawing while retaining their connections to other parts of the drawing. You cannot stretch Blocks, Hatch patterns, or Text entities, however. |   |
| STYLE | Creates named Text styles, with user-selected combinations of font, height, mirroring, obliging, and horizontal scaling. | can be transparent? Lists specified (or all) currently defined text styles |
| TABLET | Aligns the digitizing tablet with coordinates of a paper drawing to accurately copy it with AutoCAD | ON Turns Tablet Mode ON (but it has to be CALibrated first)OFF Turns Tablet Mode OFFCAL Calibrates Tablet for use -- sets the distance to be used to copy the drawing to an accurate scaleCFG Configures tablet menus and pointing area |
| TABSURF | Creates a polygon mesh approximating a general tabulated surface defined by a path and a direction vector |   |
| TEXT | Draws text characters of any size with selected styles | J Prompts for justification optionsS Lists or selects text styleA Aligns text between two points, with style-specified width factor, AutoCAD computes approximate height proportional to length of text lineC Centers text horizontally about a defined pointF Fits text between two points, with specified height, AutoCAD computes approximate width factor to fill the distance between the two pointsM Centers text horizontally and vertically about a defined pointR Right-justifies textBL Bottom Left justificationBC Bottom Center justificationBR Bottom Right justificationML Middle Left justificationMC Middle Center justificationMR Middle Right justificationTL Top Left justificationTC Top Center justificationTR Top Right justification |
| TEXTSCR | A "toggle." Flips the display on single-screen systems (most of them) from text-screen to graphics-screen, and vice-versa.  | can be transparent |
| TIME | Displays drawing creation and update times, and permits control of an elapsed timer. | can be transparentD Displays current timesON Starts user elapsed timerOFF Stops user elapsed timerR Resets user elapsed timer |
| TRACE | Draws solid filled lines of specified width. Has mostly been superseded by the PLINE command. |   |
| TREESTAT | Displays information on the drawing's current spatial index, such as the number and depth of nodes in the drawing database. |   |
| TRIM | Erases a portion of selected entities that cross a specified "cutting edge" | U Undoes last trim operation |
| U | Reverses the effect of the previous command |   |
| UCS | Defines or modifies the current User Coordinate System | D ("Delete") Deletes one or more saved coordinate systemsE ("Entity") Sets a UCS with the same extrusion direction as that of the selected entityO ("Origin") Shifts the origin of the current coordinate systemP ("Previous") Restores the Previous UCSR ("Restore") Restores a previously saved UCSS ("Save") Saves the current UCSV ("View") Establishes a new UCS whose Z-axis is parallel to the current viewing directionW ("World") Sets the current UCS to the World Coordinate SystemX Rotates the current UCS around the X-axisY Rotates the current UCS around the Y-axisZ Rotates the current UCS around the Z-axisZA Defines a UCS using an origin point and a point on the positive portion of the Z-axis3 Defines a UCS using an origin point, a point on the positive portion of the X-axis, and a point on the positive Y-portion of the XY plane? Lists specified saved coordinate systems |
| UCSICON | Controls visibility and placement of the User Coordinate System Icon, which graphically indicates the origin and orientation of the current UCS. The options normally affect only the current viewport. | A Changes settings of all active viewportsN ("NoOrigin") Displays the UCSICON at the lower-left corner of the viewport (i.e., not at the Origin)OR ("ORigin") Displays the UCSICON at the origin of the current UCS, if possible (if the origin point is not within the current viewport, the location of the UCSICON defaults to the lower-left corner of the viewport)OFF Turns the UCSICON offON Turns the UCSICON on |
| UNDEFINE | Deletes the definition of a built-in AutoCAD command |   |
| UNDO | Reverses the effect of multiple commands, and provides control over the "Undo" facility | <number> Undoes the <number> of most recent commands in reverse orderA ("Auto") Controls treatment of menu items as UNDO "Groups"B ("Back") Undoes back to previous UNDO "Mark"C ("Control") Enables/disables the UNDO featureE ("End") Terminates an UNDO Group (a sequence to be treated as one command)G ("Group") Begins an UNDO Group (a sequence to be treated as one command)M ("Mark") Places "marker" in UNDO file (for use with "Back")Control Sub-OptionsAll Enables the full UNDO featureNone Disables U and UNDO entirely, and discards any previous UNDO information saved earlier in the editing sessionOne Limits U and UNDO to a single operation |
| UNITS | Selects coordinate and angle display formats and precision | can be transparent |
| VIEW | Saves the current graphic display and space as a named view, or restores a saved view and space to the display | can be transparentD Deletes a named viewR Restores named view to screenS Saves current display as named viewW Saves specified Window as named view? Lists specified named views |
| VIEWPORTSorVPORTS | Used in Model Space only, and has been superseded by Paper Space Vports, created with the MVIEW command. Divides the AutoCAD graphics display into multiple viewports, each of which can contain a different view of the current drawing (maximum of 4 "tiled" viewports per viewport) | D Deletes a saved viewport configurationJ Joins (merges) two viewportsR Restores a saved viewport configurationS Saves the current viewport configurationSI ("SIngle") Displays a SIngle viewport filling the entire graphics area2 Divides the current viewport into 2 viewports3 Divides the current viewport into 3 viewports4 Divides the current viewport into 4 viewports? Lists the current and saved viewport configurations |
| VIEWRES | Allows you to control the precision and speed of circle and arc drawing on the monitor by specifying the number of sides in a circle. Acts like an AutoCAD variable. Recommend that it be set to 2000. |   |
| VPLAYER | Sets viewport visibility for new and existing layers | ? Lists layers frozen in a selected viewportF ("Freeze") Freezes specified layers in selected viewportsT ("Thaw") Thaws specified layers in selected viewportsR ("Reset") Resets specified layers to their default visibilityN ("Newfrz") Creates new layers that are frozen in all viewportsV ("Vpvisdflt") Sets the default viewport visibility for existing layers |
| VPOINT | Selects the viewpoint for a 3D visualization | R Selects viewpoint via two rotation angles<RET> Selects viewpoint via a graphic compass and axis tripod which appears on the screen<x,y,z> Specifies x, y, and z relative coordinates of viewpoint |
| VSLIDE | Displays a previously created slide file | <filename> views slide with name of "filename.SLD"\*filename preloads slide which the next command VSLIDE will view |
| WBLOCK | Writes selected entities or previously created Block to a drawing file | <filename> writes specified entities to "filename.DWG"= filename.DWG to be created is same as the entities included in a previously defined Block by the same name\* writes entire drawing to the filename.DWG and purges all unreferenced blocks, layers, linetypes, text and dimensioning styles<RET> writes selected objects |
| XBIND | Makes portions of an Xref a permanent part of your drawing | B ("Block") Makes a block in the Xref a permanent part of your drawingD ("Dimstyle") Makes a dimstyle in the Xref a permanent part of your drawingL ("Layer") Makes a layer in the Xref a permanent part of your drawingLT ("LType") Makes a Ltype in the Xref a permanent part of your drawingS ("Style") Makes a text style in the Xref a permanent part of your drawing |
| XREF | Allows you to work with other AutoCAD drawings without adding them permanently to your drawing and without altering their contents | A ("Attach") "Attaches" a new Xref to the drawing or updates an Xref that is already attachedB ("Bind") Makes an Xref a permanent part of your drawingD ("Detach") Removes an Xref from your drawingP ("Path") Allows you to view and edit the filename path (directory and sub-directory) that AutoCAD searches when loading a particular XrefR ("Reload") Updates one or more Xrefs at any time? Lists Xrefs in your drawing and the drawing associated with each one |
| ZOOM | Enlarges or reduces the display magnification of the drawing, without changing the actual size of the entities | can be transparent<number> multiplier from original magnification<number X> multiplier from current magnification<number XP>multiplier of magnification relative to paper space -- used for plotting to get right plot scale in each viewportA ("All") fills limits of drawing to screenC ("Center") makes picked point the center of the screenD ("Dynamic") makes an adjustible rectangular lens appear on the screen which is capable of being made smaller or larger and moved to different positions over the drawing and once set by the user, the drawing will quickly zoom to the location and magnification set for the lens. This sub-command is no longer useful because all computers have very fast zooms naturally now.E ("Extents") makes the farthest edges of the actual visible drawing fill up the graphics screenL ("Lower-Left") makes the point picked become shoved to the lower-left corner of the graphics screenP ("Previous") zooms back to whatever the last zoom, previous to the current zoom was -- AutoCAD stores about 10 of these, so you can walk backward in zoom magnification 10 times V ("Virtual Screen") makes the largest area available to the graphics card fill the graphics screen -- this varies with the quantity of graphics RAM that your graphics card hasW ("Window") asks you to pick the lower left corner and the upper right corner of a zoom window and then fits that window to the graphics screen |
| 3DFACE | Draws flat planes in 3D space with either 3 corners or 4 corners (3 sided or 4 sided flat planes). These are used to hide objects behind them in space to create the illusion of a solid object. 3DFACEs can also be shaded using the SHADE command, in which case the entire plane takes on the color assigned to its edges. Normally (without using the HIDE or SHADE commands, 3DFACEs are transparent, which means that objects behind them in space are visible through them, and they appear as "wireframes." | I ("Invisible") this is used by typing in the letter "I" just before picking a corner point for the 3DFACE, and it will make the edge of the 3DFACE drawn from that point to the next one "Invisible" (that is, it will not be shown as a line on the drawing). This is important when joining several 3DFACEs together to cover a complex, multi-faceted surface, where you do not want the "seams" of the 3DFACEs to show in the final drawing. The visibility of edges of 3DFACEs can further be turned on or off by the AutoCAD variable "SPLFRAME." When SPLFRAME is set to 1 ("on"), both edges which have been made "Invisible" as well as normal, visible edges are shown on the drawing. When SPLFRAME is set to 0 ("off"), Invisible edges are not shown. The purpose of sometimes wanting to see invisible edges is that you may want to move, stretch, or copy the 3DFACE and if its edges are invisible, you cannot select them fopr modification. You can only select a 3DFACE by picking on a visible edge. |
| 3DMESH | Draws a 3D polygon mesh by specifying its size, in terms of the number of faces in each direction (called M and N directions), and the location in 3D space of each vertex (the corner of a face) in the mesh. |   |
| 3DPOLY | Creates a 3D polyline | C Closes the polyline back to the first pointU Undoes (deletes) the last segment entered<RET> Exits 3DPOLY command |