AutoCAD® cheat sheet

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Up-to-date with AutoCAD 2023 (some commands may not work with previous versions). Last revision: October 21, 2022.

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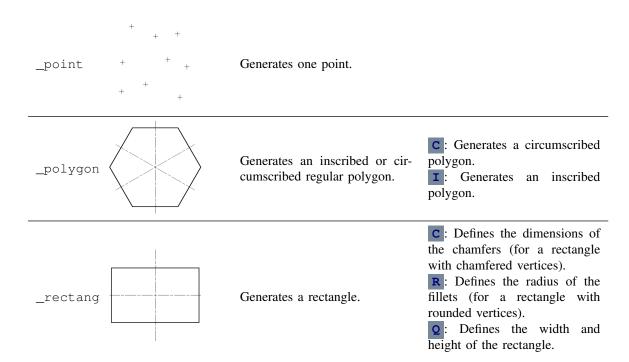
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1. Reference systems and coordinate insertion

Reference system	Insertio	n mode
Tereferice system	Cartesian	Polar
Global (WCS)	*x,y	$*\rho < \theta$
User (UCS)	x,y	$\stackrel{\cdot}{ ho}< heta$ @ $ ho< heta$
Local	@x,y	@ ho < heta

2. Creating graphical objects

	Command	Action	Main parameters
_arc		Creates a circular arc.	C : Accepts the centre as the first input (instead of the starting point).
_circle		Creates a full circle.	D: Accepts the diameter instead of the radius. 3P: Generates a circle based on three points. 2P: Generates a circle based on two diametrically opposite points. T: Generates a circle tangent to three objects.
_ellipse		Creates a full ellipse or an elliptical arc.	A: Generates an elliptical arc (instead of a full ellipse). C: Generates an ellipse or an elliptical arc starting from the centre.
_hatch		Hatches a closed region	
_line		Generates a single line or a polyline.	C: Closes the polyline (only active when there the polyline has at least three points).



3. Editing graphical objects

Com	mand	Action	Main parameters
_arrayclassic	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Creates copies of objects along a linear or circular array.	
_chamfer		Chamfers two rectilinear edges. The two edges (or their extensions) must intersect.	D: Sets the chamfer distance from the intersecting point of the first and second object. The input order reflects the order whereby the entities are selected.
_сору		Creates copies of objects.	S: Sets the displacement vector
_erase		Deletes the selected objects (same effect as pressing Canc).	
_explode		Splits an object into separate parts (opposite effect than _join).	
_extend		Extends objects to meet the edges of other objects.	
_fillet		Fillets the edges of two 2D objects by creating an arc of given radius. The two edges (or their extensions) must intersect	RA: Sets the fillet radius.
_intersect		Returns the intersection (Boolean AND) between two closed objects. The objects must be previously converted into regions through _region.	

_join	Joins lines, polylines, splines and adjacent arcs (opposite effect than _explode).	
_mirror	Mirrors objects across a given axis.	N: Keeps the source objects (creates a copy). S: Removes the source objects.
_move	Moves objects.	S : Sets the displacement vector.
_offset	Offsets an object at a specified distance.	
_rotate	Rotates objects.	C : Keeps the original objects (creates a copy).
_scale	Applies a scale transform.	C : Keeps the original objects (creates a copy).
_subtract	Returns the difference (Boolean XOR) between two closed objects. The objects must be previously converted into regions through _region.	
_trim	Trims objects to meet the edges of other objects.	

_union



Returns the union (Boolean OR) between two closed objects. The objects must be previously converted into regions through _region.

4. Inserting dimensions and managing their style

Com	mand	Action	Main parameters
_dimlinear	50	Creates a linear dimension parallel to one of the axes of the UCS.	
_dimaligned		Creates a linear dimension that is aligned with the origin points of the extension lines.	
_dimdiameter		Creates a diameter dimension with a diameter symbol (ϕ) in front of it.	
_dimradius	***************************************	Creates a radius dimension with a radius symbol (R) in front of it.	
_dimstyle		Opens the window that allows to manage the dimension style.	

5. Inserting text and annotations

H: Specifies the text leight. J: Sets text justification and flow in relation to the text boundary (see text). W: Specifies the width of the text boundary.
J: Sets text justification and flow in relation to the text boundary. Possible options: TL (Top left) TC (Top centre) TR (Top right) ML (Middle left) MC (Middle centre) MR (Middle right) BL (Bottom left) BC (Bottom centre) BR (Bottom right) W Specifies the width of the text boundary; words wrap to fit the width.
li l





Draws the centre mark of a circle or arc.



5.1. Inserting special characters

Property name	Symbol	AutoCAD sequence	Unicode sequence
Diameter	ø	%%c	\U+00B0
Envelope requirement	E	_	\U+24BA
Degrees	0	%%d	\U+2205
Plus/minus	±	%%p	\U+00B1
Square		_	\U+25A1

5.2. Inserting special characters via gdt font

Property name	Symbol	AutoCAD sequence
Diameter	ø	n
Square		O
Counterbore	Ш	V
Countersink	~	W
Deep/Depth		Х
Taper	\triangleright	y
Maximum material requirement	(M)	m
Minimum material requirement	Ĺ	1

6. Managing user interface, system variables and object properties

Command	Action	Main parameters
_dynmode	Sets the dynamic input mode.	1 : Turns dynamic input on.0 : Turns dynamic input off.
_layer	Opens the window for creating, deleting and modifying layers.	
_matchprop	Applies the properties of a selected object to other objects (similar to paste format in Microsoft Word).	
_navbardisplay	Controls the display of the navigation bar.	Displays the navigation bar.Hides the navigation bar.
_orthomode	Constrains cursor movement parallel to UCS axes.	1 : Turns orthogonal mode on.0 : Turns orthogonal mode off.
_osnap	Opens the window for managing object snaps.	Amountable discipline Steep and opgeth Steep
_polarang	Sets the polar angle increment for tracking.	0: No polar tracking. 10,901: Polar tracking by steps of the given value.
_ptype	Opens the window for setting the display style and size of point objects.	A Stile punto

_qselect	Selects objects based on filtering criteria.	Applica a: Tipo oggetto: Eroprietà: Layer Real si fisica Sesta si podi iline a State di stampa Spessore di linea Trappareza Oblegamento ipenestuale Operatore: Uguale a Yalore: Datayer Come applicare: © Includi nel nuovo gruppo di selezione Escluti dal nuovo gruppo di selezione	
_regen	Regenerates the drawing in the current viewport. Recomputes the locations and visibility of all objects in the current viewport.		
_redraw	Refreshes the display in the current viewport.		
_ucs	Sets the origin and orientation of the UCS.		
_ucsicon	Controls the appearance of the UCS icon.	ON: Shows UCS icon. OF: Hides UCS icon. OR: Displays the icon at the origin (0,0,0) of the UCS.	
_units	Opens the dialogue box to control format, precision and other settings used to display coordinates, distances and angles.		

7. Keyboard shortcuts

Key	Function(s)
Canc	Deletes the selected objects.
Ctrl + B	Turns the grid snap on/off.
Ctrl + O	Opens an existing document.
Ctrl + Q	Closes the applications.
Ctrl + Z	Undoes the previous action.
Ctrl + Y	Redoes the previous action (reverses a previous undo).
Ctrl + 9	Hides/displays the command line.
Esc	Exits a command. Deselects all objects.
[Invio]	Finalises a command, the input of a parameter or the selection of objects within one command. Repeats the latest command.
F3	Turns object snap on/off.
	Turns orthogonal mode on/off.
[F10]	Turns polar tracking on/off.
[F11]	Turns object snap tracking on/off.
[F12]	Turns dynamic mode on (but not off).
shift]	Removes objects from the current selection if pressed or held down while selecting objects.