

CADian 2020 Base and Utilization

Technical Support

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CURRICULUM

CADian 2020



CADian Course contents -1

주	일	강의명	강의 내용	상세 내용	시간
1 WEEKS	1 DAYS	CADian Introduce and Basics	- Introduce / SETUP / Experience		35 Hours
	2 DAYS		- Command / Options / Icon		
	3 DAYS		- Coordinates / Drawing -1	- Coordinates + Line + PolyLine + Erase	
	4 DAYS		- Drawing -2	- Review + Rectangle + Polygon	
	5 DAYS		- Edit-1	- Mirror + Stretch + Scale + Trim + Extend Etc	
2 WEEKS	6 DAYS	CAD Drawing	- Edit-2	- Fillet + Chamfer + Array + Explode + Align Etc	35 Hours
	7 DAYS		- Drawing practice -1	- Library 및 Free Drawing	
	8 DAYS		- Drawing practice -2	- Review	
	9 DAYS		- TEXT -1	- Drawing practice + Drawing form text writing	
	10 DAYS		- Dimensions -1	- Drawing practice + Dimensioning drawings	
3 WEEKS	11 DAYS	CAD Utilization -1	- TEXT -2	- Drawing practice + Style	35 Hours
	12 DAYS		- Dimensions -2	- Drawing practice + Dimstyle	
	13 DAYS		- Properties + SelectSET	- Drawing practice + Properties + Filter	
	14 DAYS		- Block	- Drawing practice + Insert Block	
	15 DAYS		- Attribute of Block	- Drawing practice + Attribute of Block	
4 WEEKS	16 DAYS	CAD Utilization -2	- XREF	- Drawing practice + XREF	35 Hours
	17 DAYS		- Drawing Utility	- Drawing practice + AUDIT + RECOVER Etc	
	18 DAYS		- Hatch	- Drawing practice + Hatch	
	19 DAYS		- Layer	- Drawing practice + Layer	
	20 DAYS		- Color, Linetype, Lineweight	- Drawing practice + Today Lecture	

CADian Course contents -2

CAD Education period (about 2 Month Course) ->
7Hour X 40Day = 280Hours

WEEK	DAY	LECTURE	Contents	Detail	Hour
5 WEEKS	21 DAYS	CAD Practice -1	- Change / Matchprop	- Drawing practice + Change + Matchprop	35 Hours
	22 DAYS		- Pedit (Polyline Edit)	- Drawing practice + Pedit	
	23 DAYS		- Systemvariable	- Drawing practice + Systemvariable (Dim, Text)	
	24 DAYS		- Viewports + UCS	- Drawing practice + Viewports + UCS	
	25 DAYS		- Templates	- Drawing practice + Templates	
6 WEEKS	26 DAYS	CAD Practice -2	- Layout	- Layout based on floor plan	35 Hours
	27 DAYS		- Plot	- Plot (PDF Etc)	
	28 DAYS		- Bonustool	- Bonus Tools (Learn about Bonustool)	
	29 DAYS		- FAQ	- How to respond	
	30 DAYS		- XTOOL	- Font Converter, SVOPEN Etc)	
7 WEEKS	31 DAYS	CAD Drawing	- PLAN DRAWING	- PLAN LAYOUT	35 Hours
	32 DAYS		- LAYOUT (FURNITURE, FLOOR, LIGHTING ETC)		
	33 DAYS		- ELEVATION DRAWING	- ELEVATION LAYOUT	
	34 DAYS		- LAYOUT (FURNITURE, FLOOR, LIGHTING ETC)		
	35 DAYS		- Complete and plot		
8 WEEKS	36 DAYS	CAD Case	- EXPRESS TOOL	- EXPRESS TOOL	35 Hours
	37 DAYS		- Cases and practices used by CAD		
	38 DAYS		- Review -1	- Drawing, Entity Edit etc	
	39 DAYS		- Review -2	- Block, Xref etc	
	40 DAYS		- Complete	- Review and print drawings	

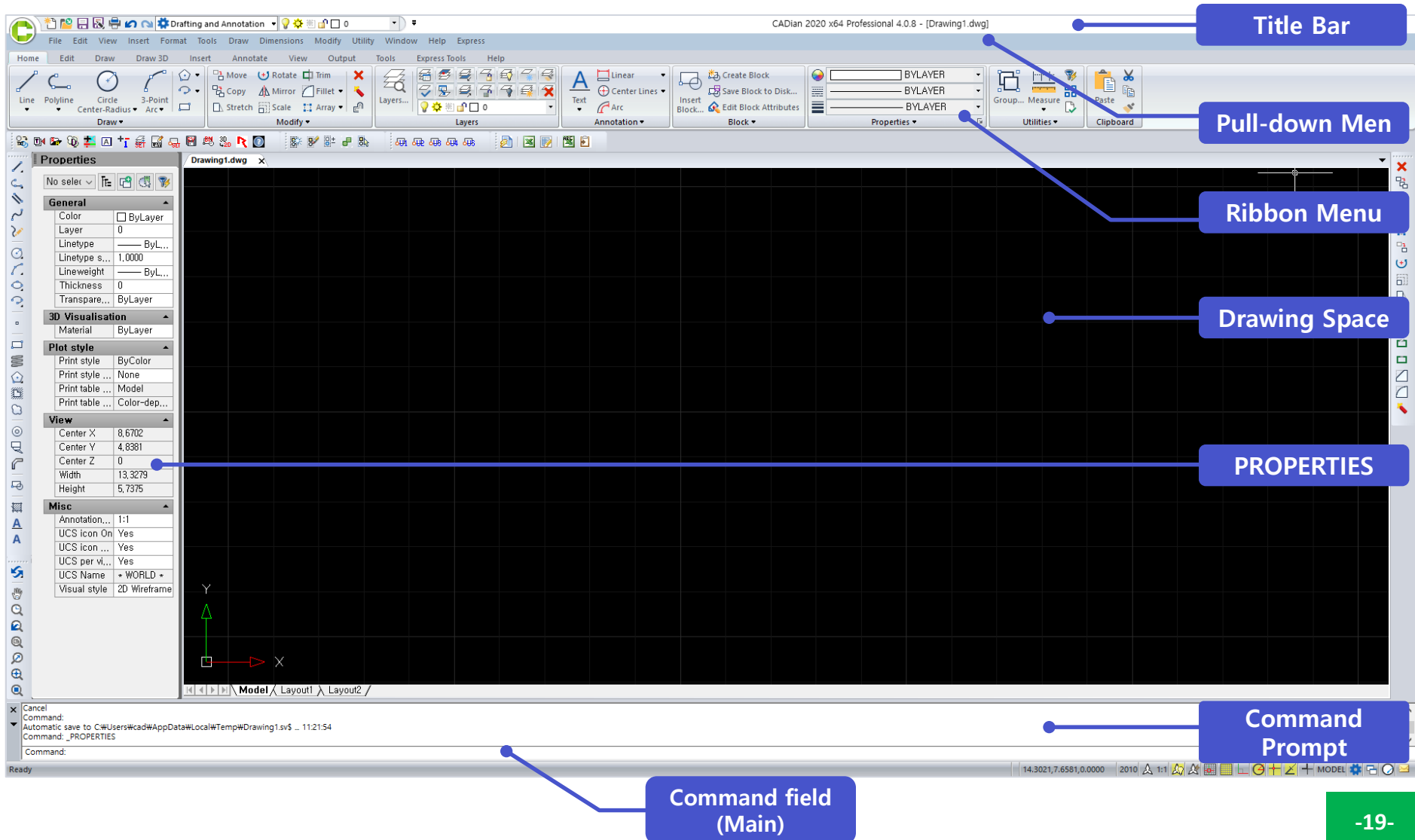
Depending on the level of proficiency of the students,
This is different from the course schedule.

INTERFACE

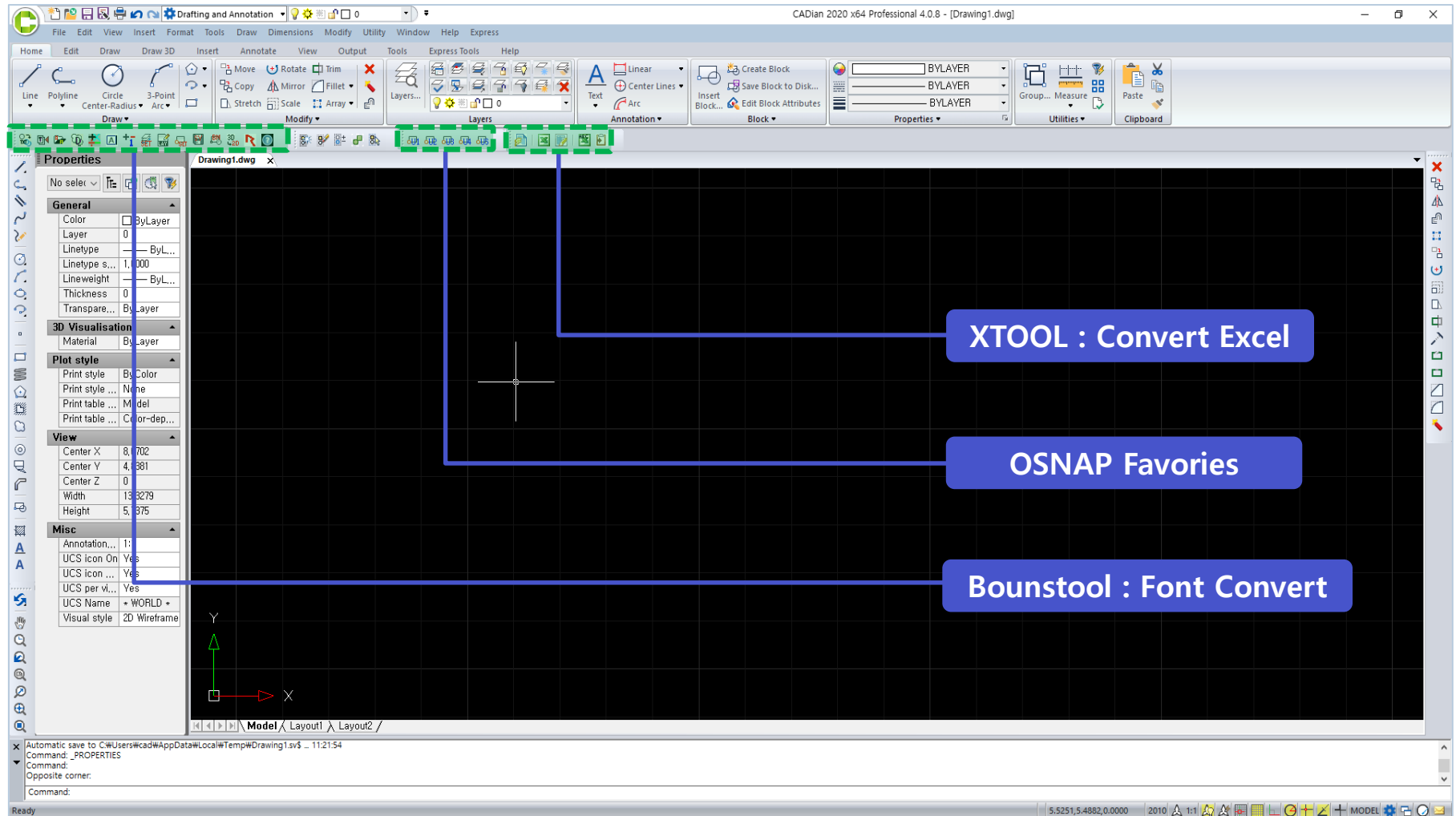
CADian 2020



CADian Display

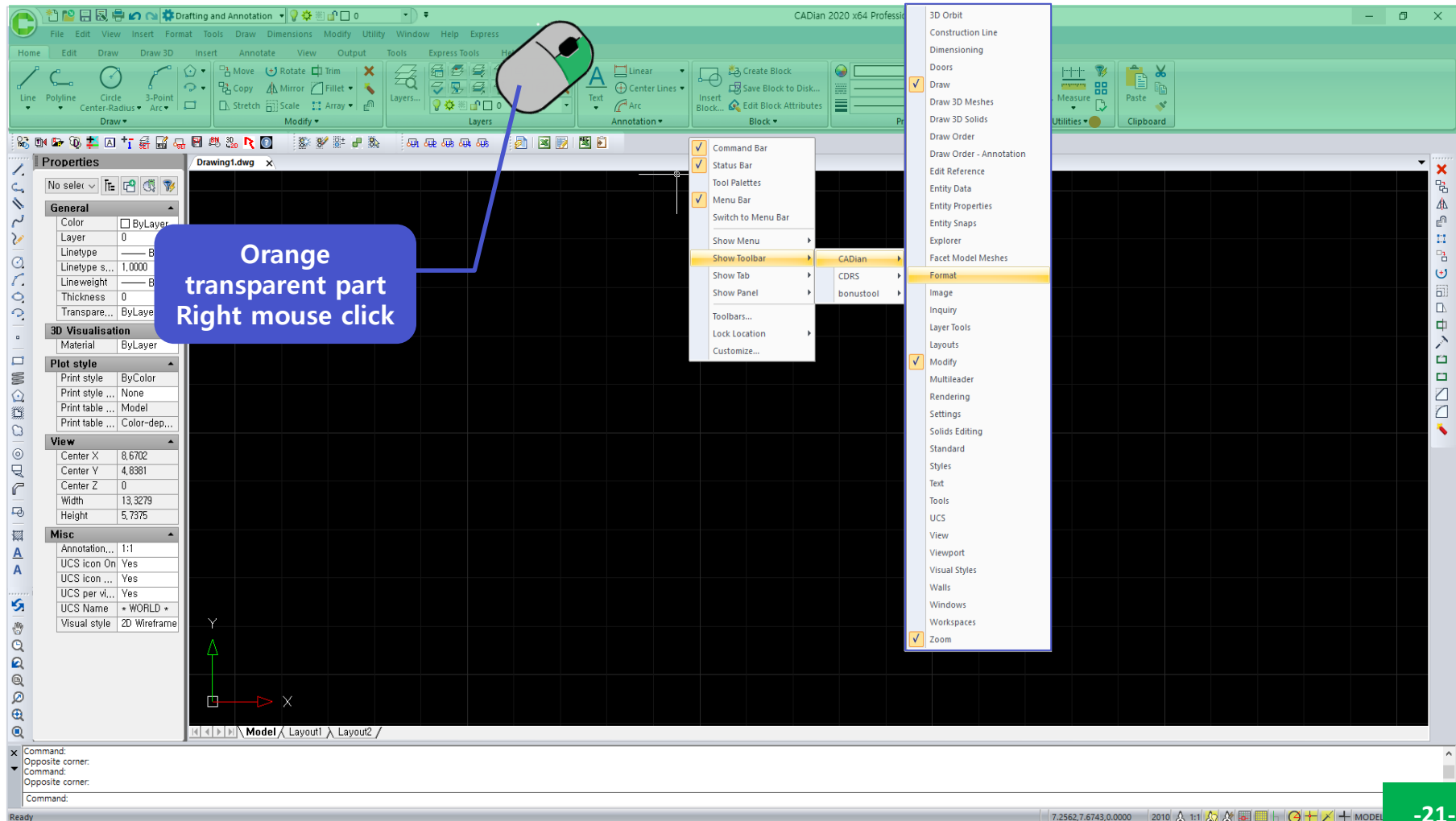


CADian's Only Utility



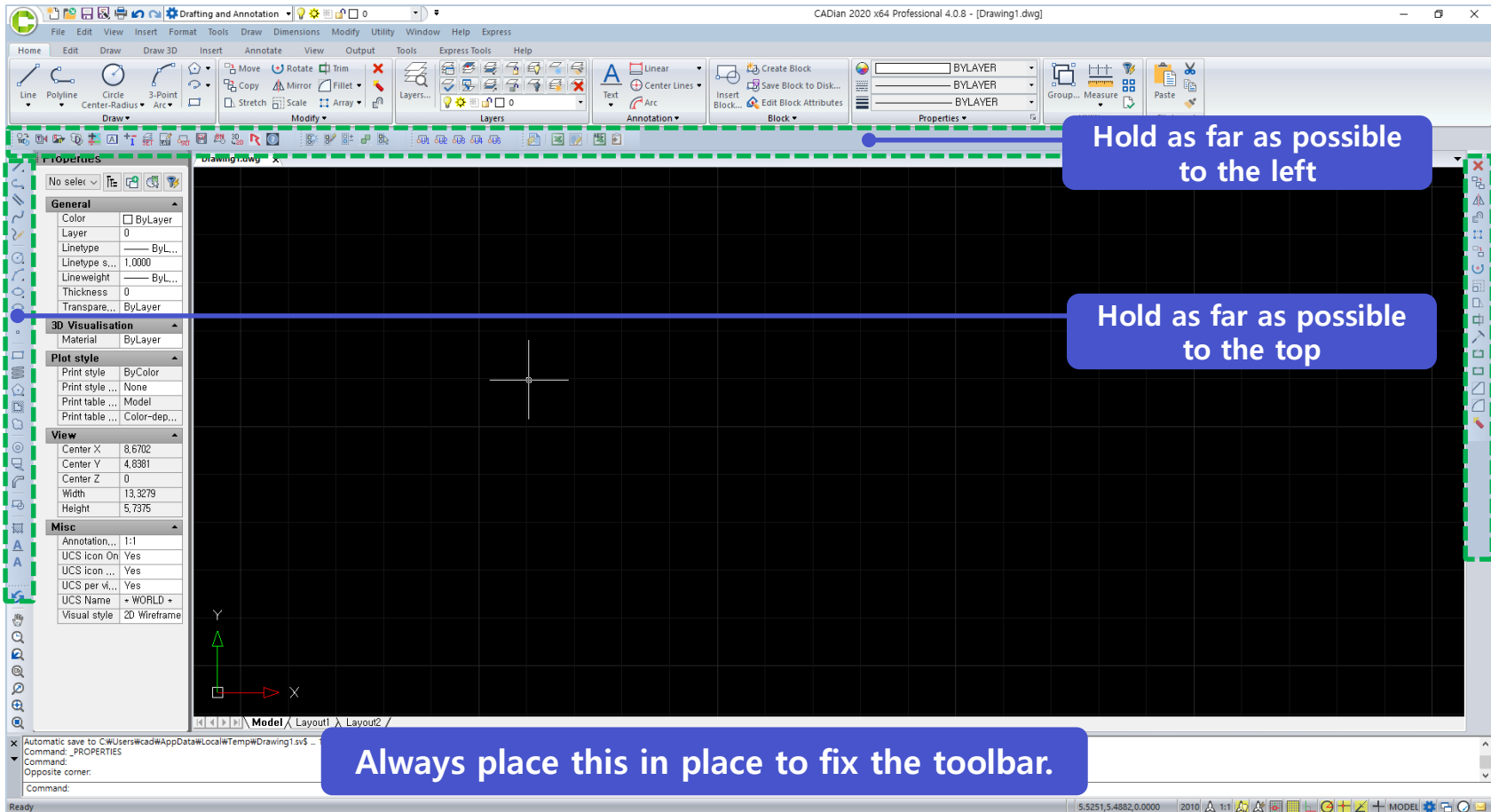
CADian TOOLBAR

Right mouse button (Part of MENU) -> Select from CADian / cdr_kor / bounstool



CADian Toolbar Position

Toolbar Position



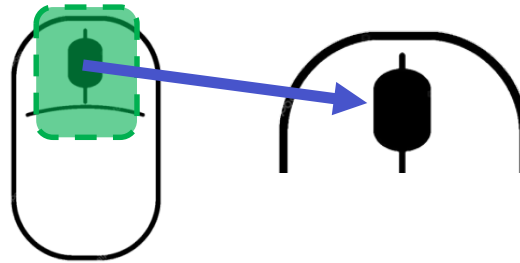
Mouse operation

CADian 2020



Mouse operation (Zoom)

Rolling the mouse wheel button



Original

Mouse operation

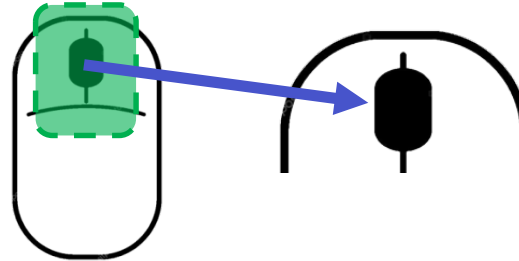
Zoom in

Zoom out

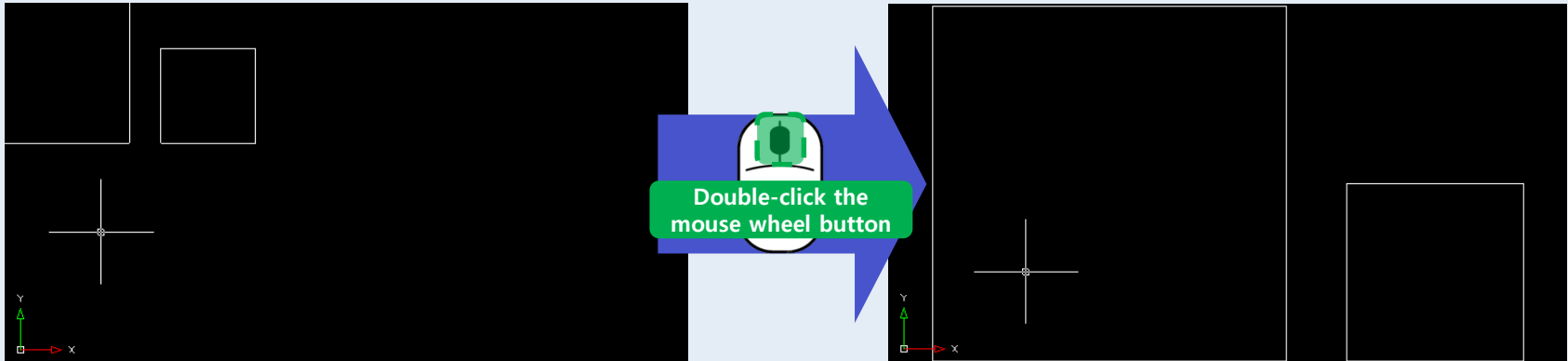
Zoom to the center of the mouse pointer

Mouse operation (Zoom Extend)

Double-click the mouse wheel button



Expands by entity range



Execution Process

1. "command : "z input and SPACE

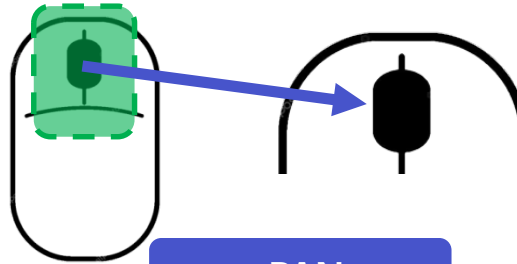
2. "zoom: ~ <>" e input and SPACE

Functions like double-clicking the mouse wheel

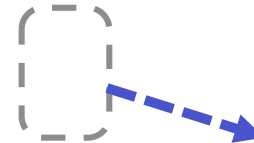
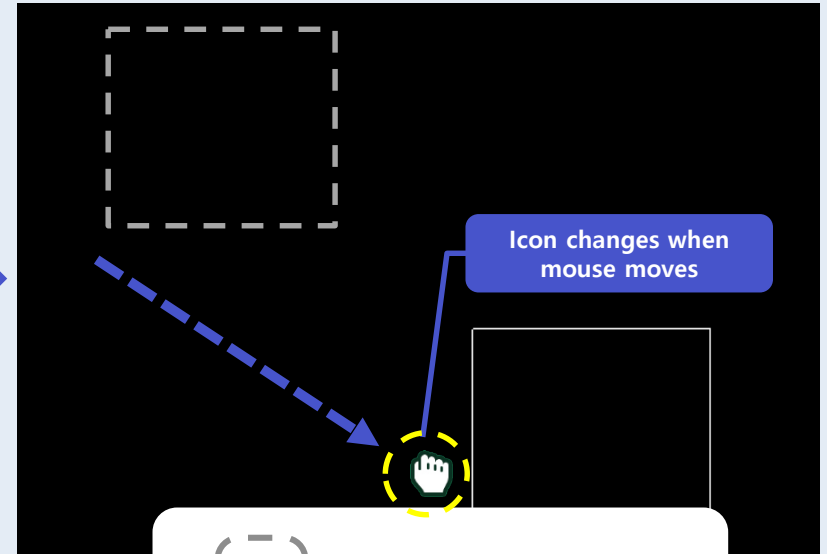
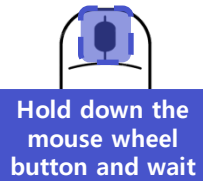
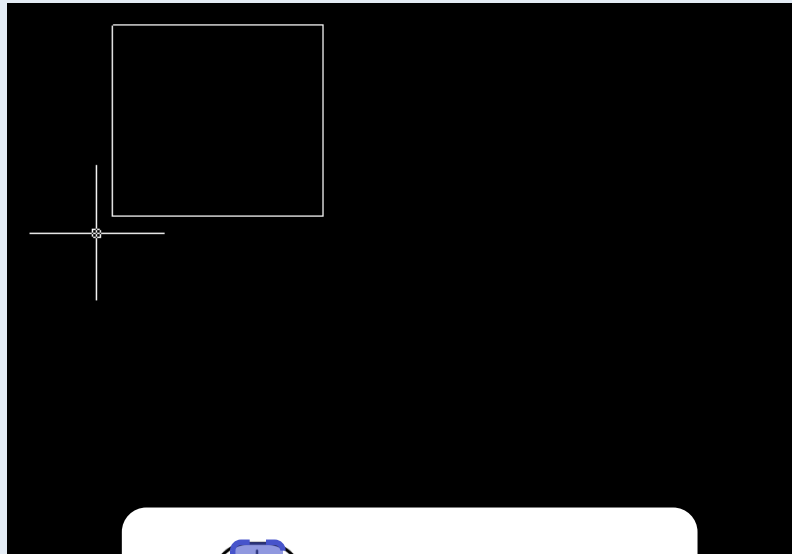
Note: If you do not see the entity when you double-click the mouse wheel, the entities are far apart.

Mouse operation (PAN)

Press the mouse wheel button



PAN



Hold down the mouse wheel button and move

COMMAND

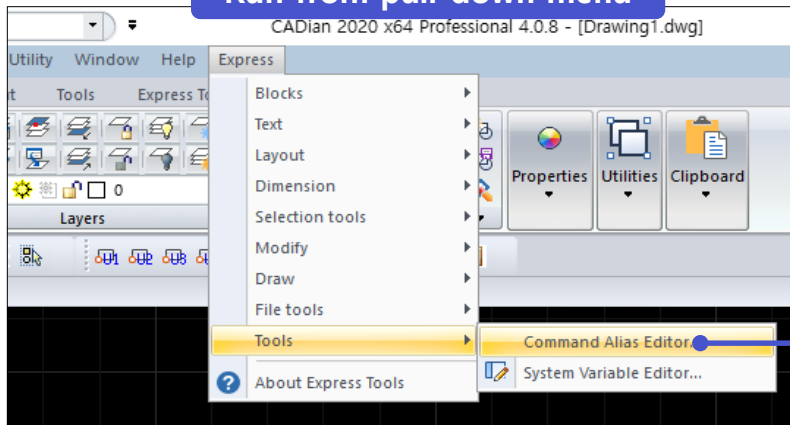
CADian 2020



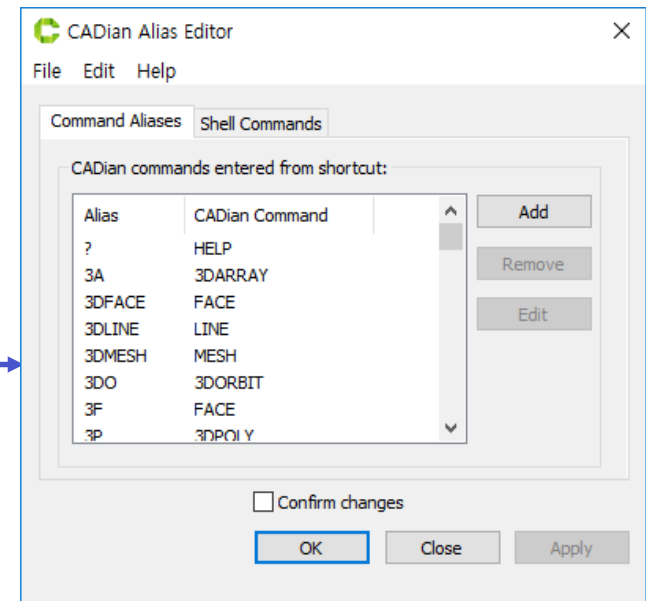
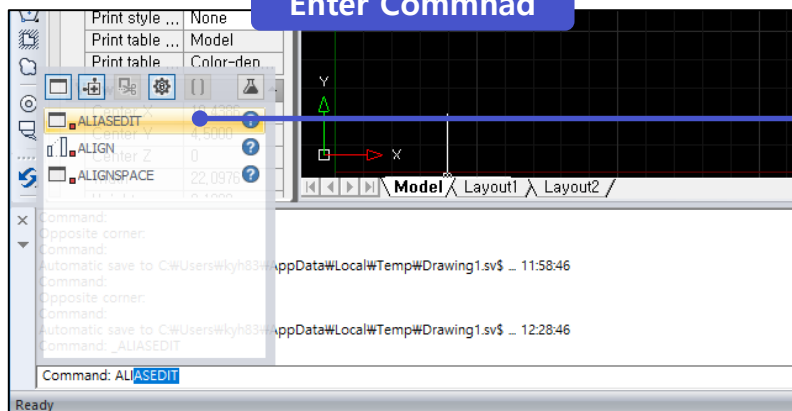
Command Edit- 1

Command : aliasedit

Run from pull-down menu



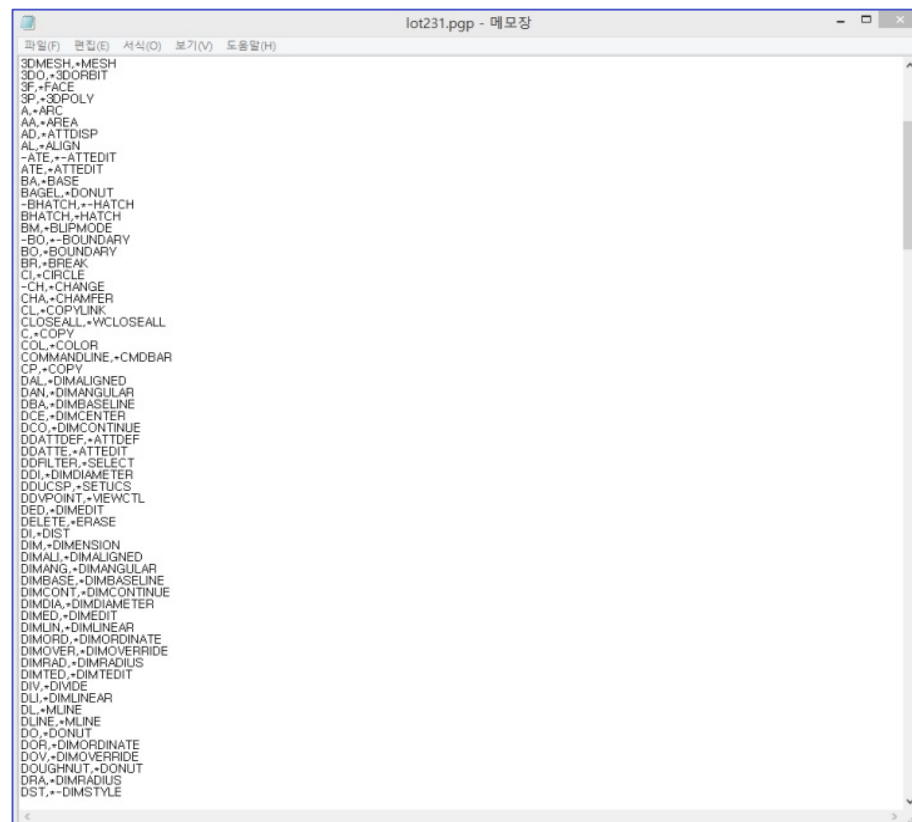
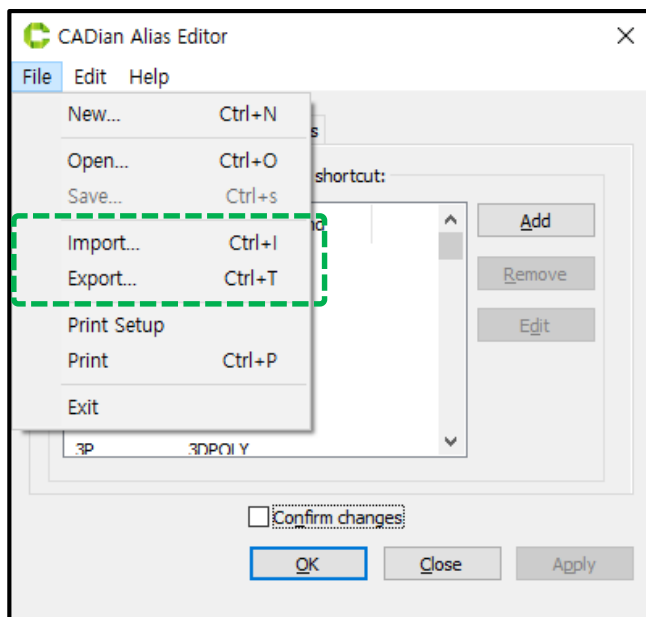
Enter Command



Command Edit- 2

IMPORT AND EXPORT

pgp File (NOTEPAD)



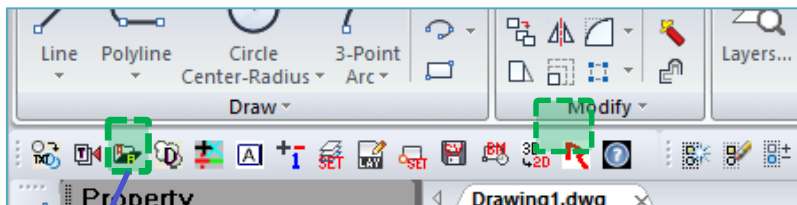
HOW TO MODIFY

1. Edit in Alias Editor

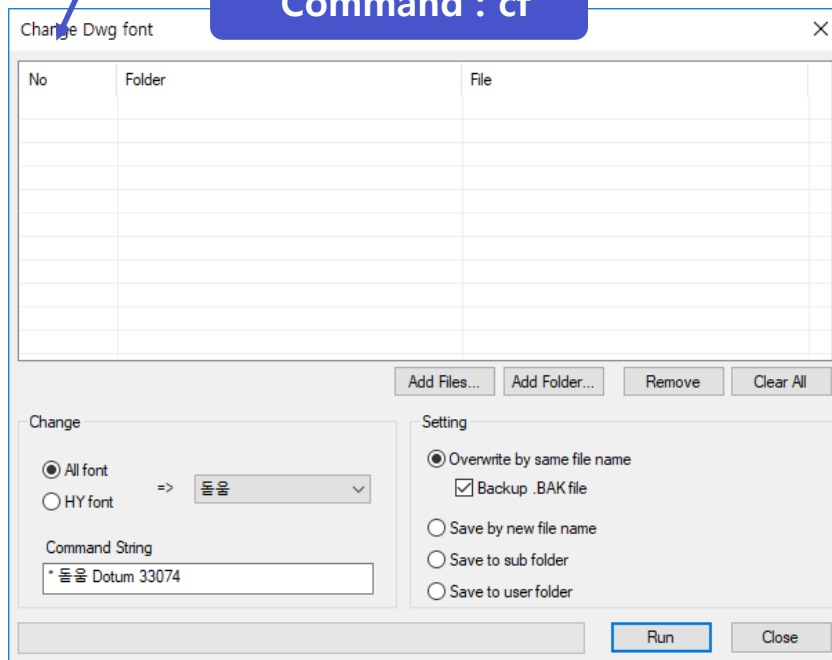
2. Edit in a PGP file

Command Edit- 3

Notes on editing commands



Command : cf



NOTE

Do not duplicate the command used in the **bounstool**.

Make sure that it is a duplicate of **Lisp** or any **other application** command.

* Example *

Question :

I changed the CIRCLE command to CF and another command is executed.

Answer :

Change CIRCLE command to CL
(Re-run program)

OPTIONS

CADian 2020



HOW TO OPTIONS

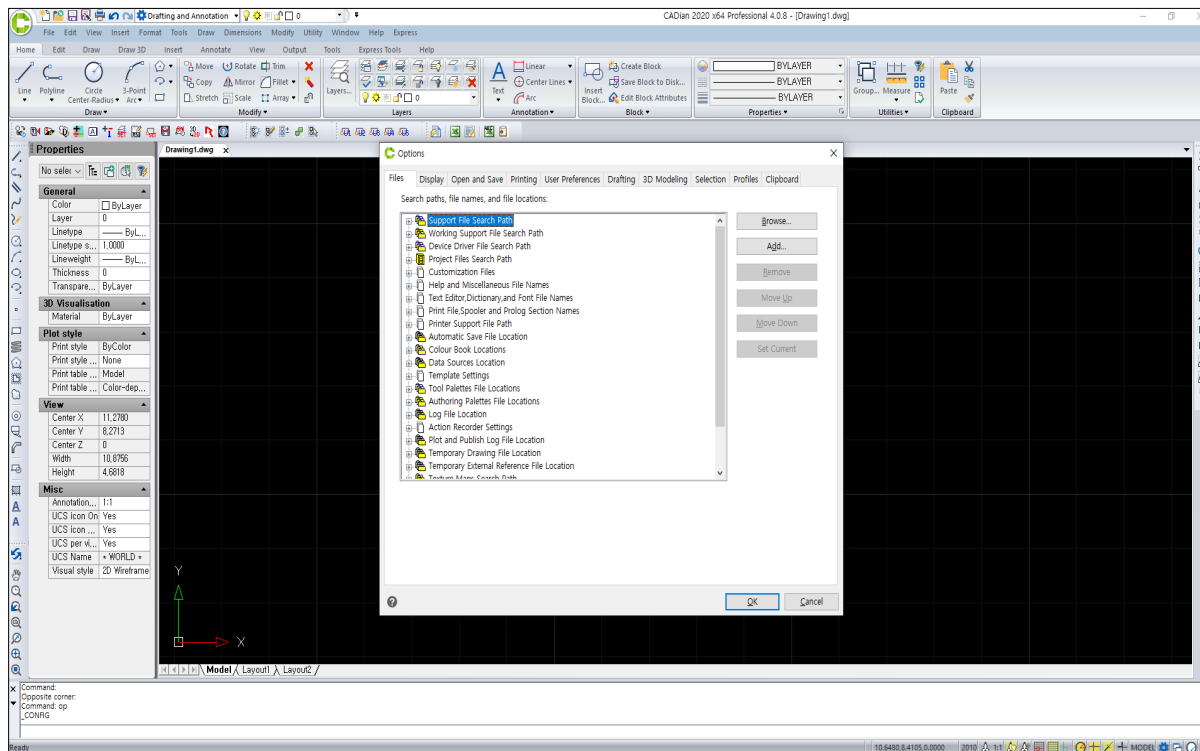
Right-click on COMMANS PROMPT -> Click OPTIONS

Other Practices

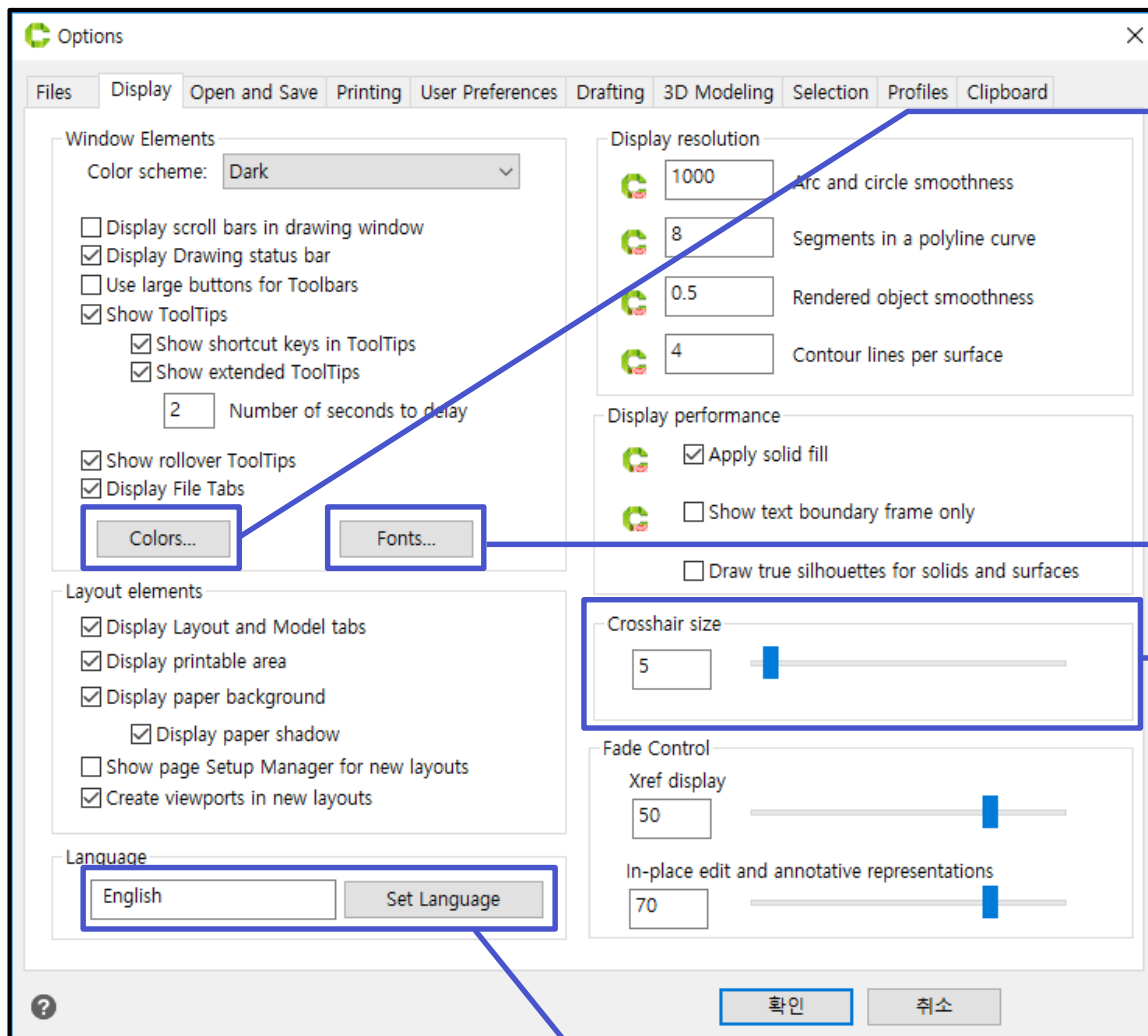
1. Command : op enter

2. Command : config /options

3. Tools (Pull-down MENU)
-> Click Options



Display-1

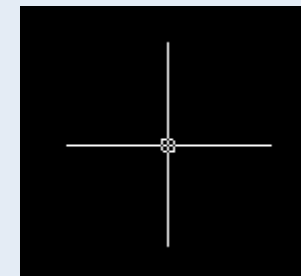


INTERFACE Color

1. Model
2. Layout
3. Command line
4. Plot Preview
5. Etc

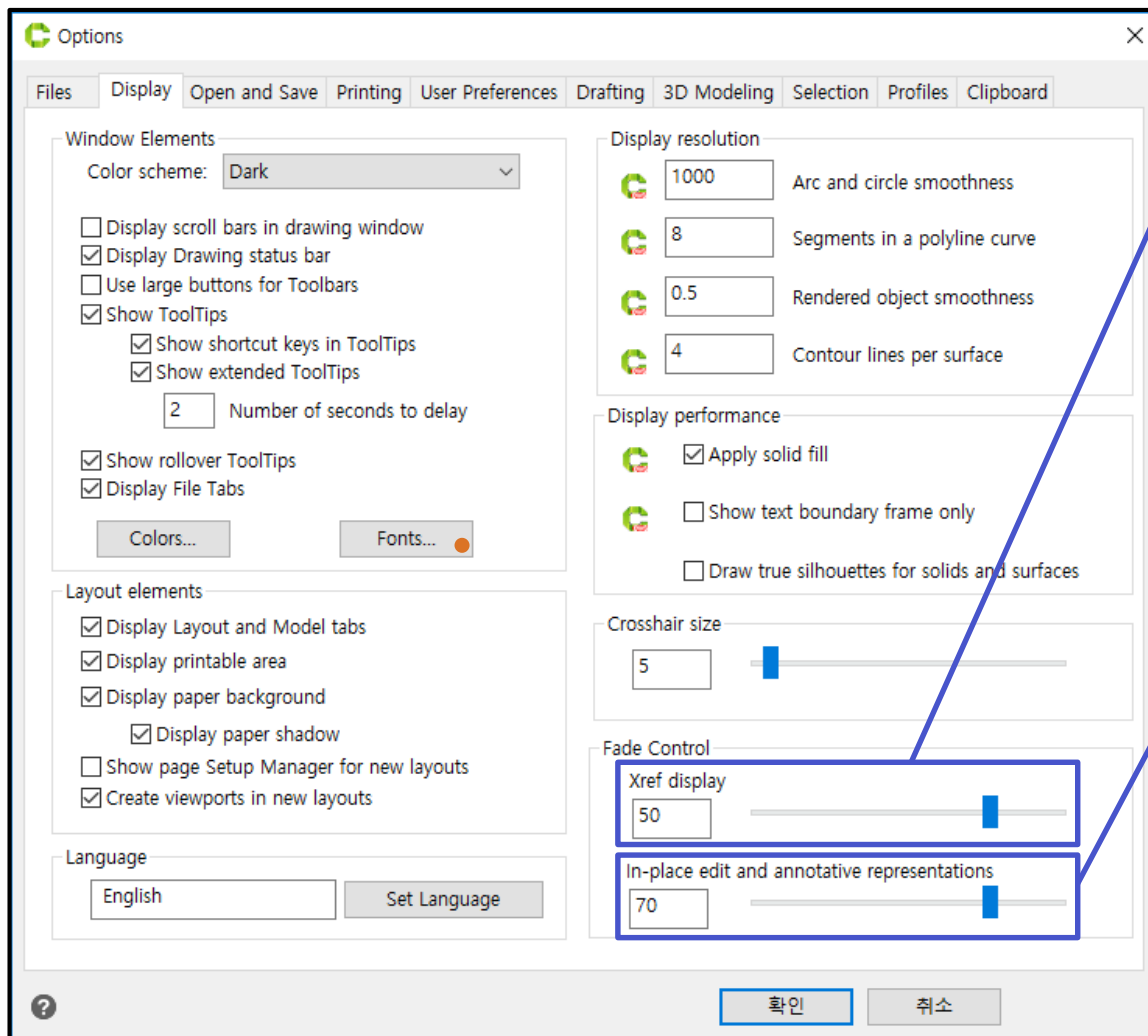
Command TEXT STYLE

Crosshair Size



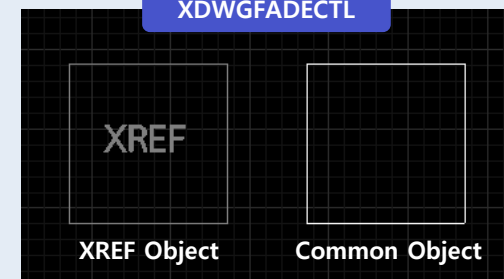
Set Language

Display-2



XREF Transparency

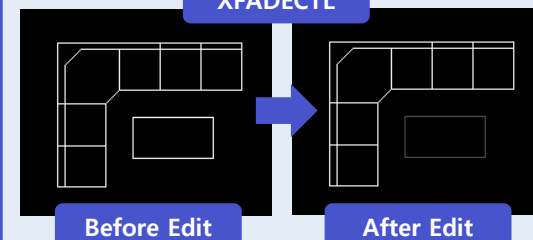
XDWGFADECTL



Transparency is available to distinguish between common and xref objects.

Editing blocks and references Transparency

XFADECTL



Open and Save

File Save (Version)

Options

Files Display **Open and Save** Printing User Preferences Drafting 3D Modeling Selection Profiles Clipboard

File Save

Save as:
AutoCAD 2013 (dwg)

☒ Maintain visual fidelity for annotative objects

Thumbnail Preview Settings...

50 Incremental save percentage

File Open

9 Number of recently-used files

☐ Display full path in title

File Safety Precautions

☒ Automatic save
10 Minutes between saves

☒ Create backup copy with each save

☒ Full-time CRC validation

☐ Maintain a log file

Security Options...

☒ Display digital signature information

External References (Xrefs)

Demand load Xrefs:
Enabled

☒ Retain changes to Xref layers

☒ Allow other users to Refedit current drawing

ObjectARX Applications

Demand load ObjectARX apps:
Object detect and command invoke

Proxy images for custom objects:
Show proxy graphics

☒ Show Proxy Information dialog box

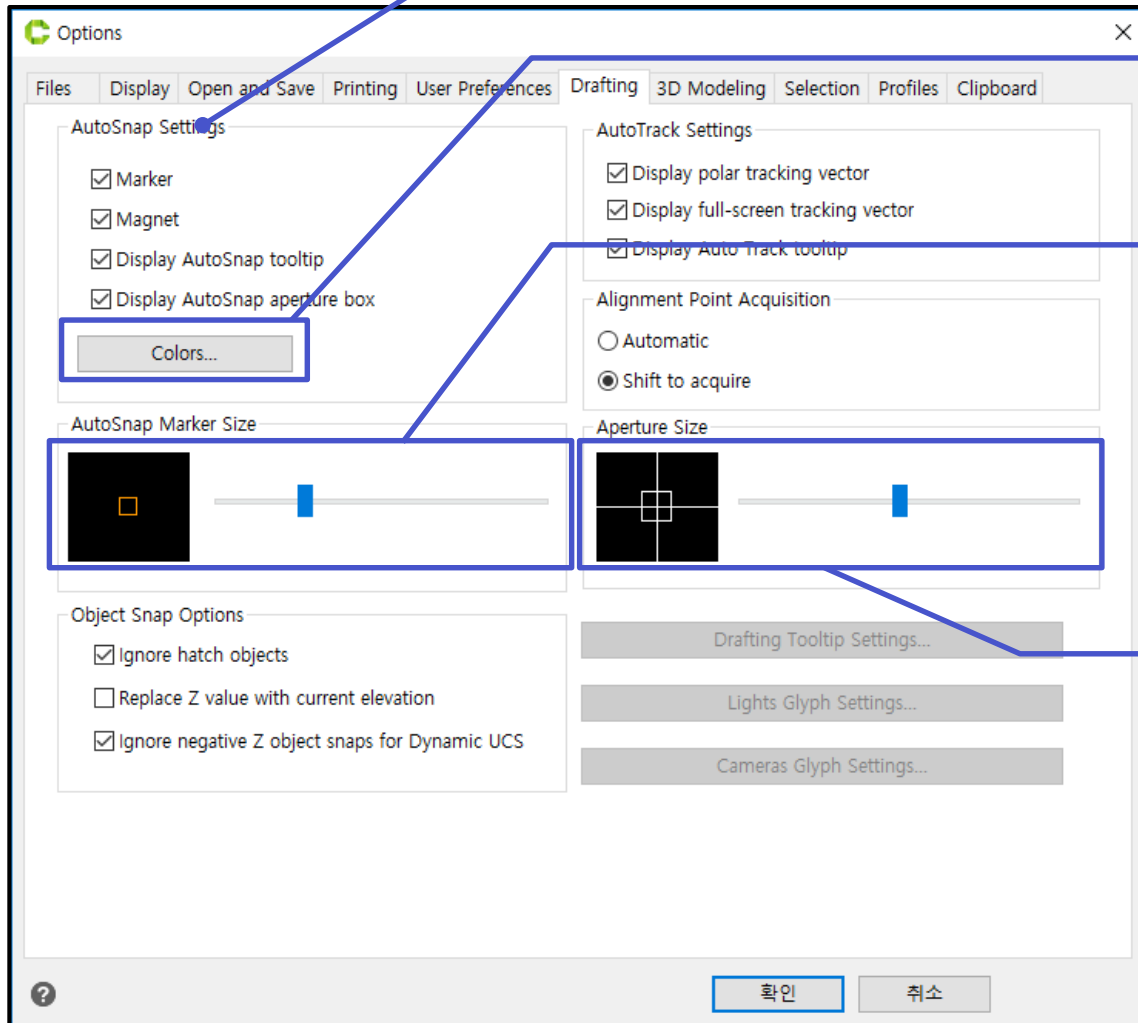
확인 취소

Automatic save and Time

Create Backup File

If you modify the **.bak** file name extension to **.dwg**, the program can run the file.

Drafting



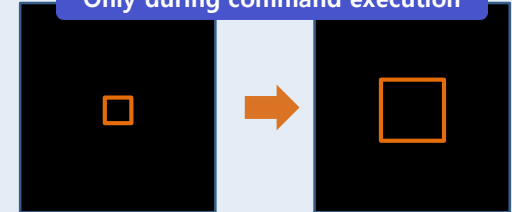
AutoSnap Setting

Color

The same color function as the Display tab.

AUTOSNAP SIZE

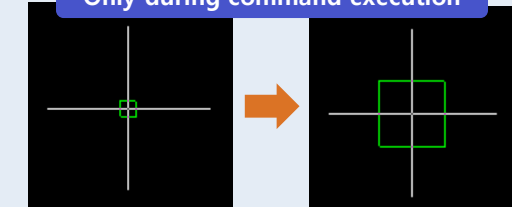
Only during command execution



Increasing the slide increases the size

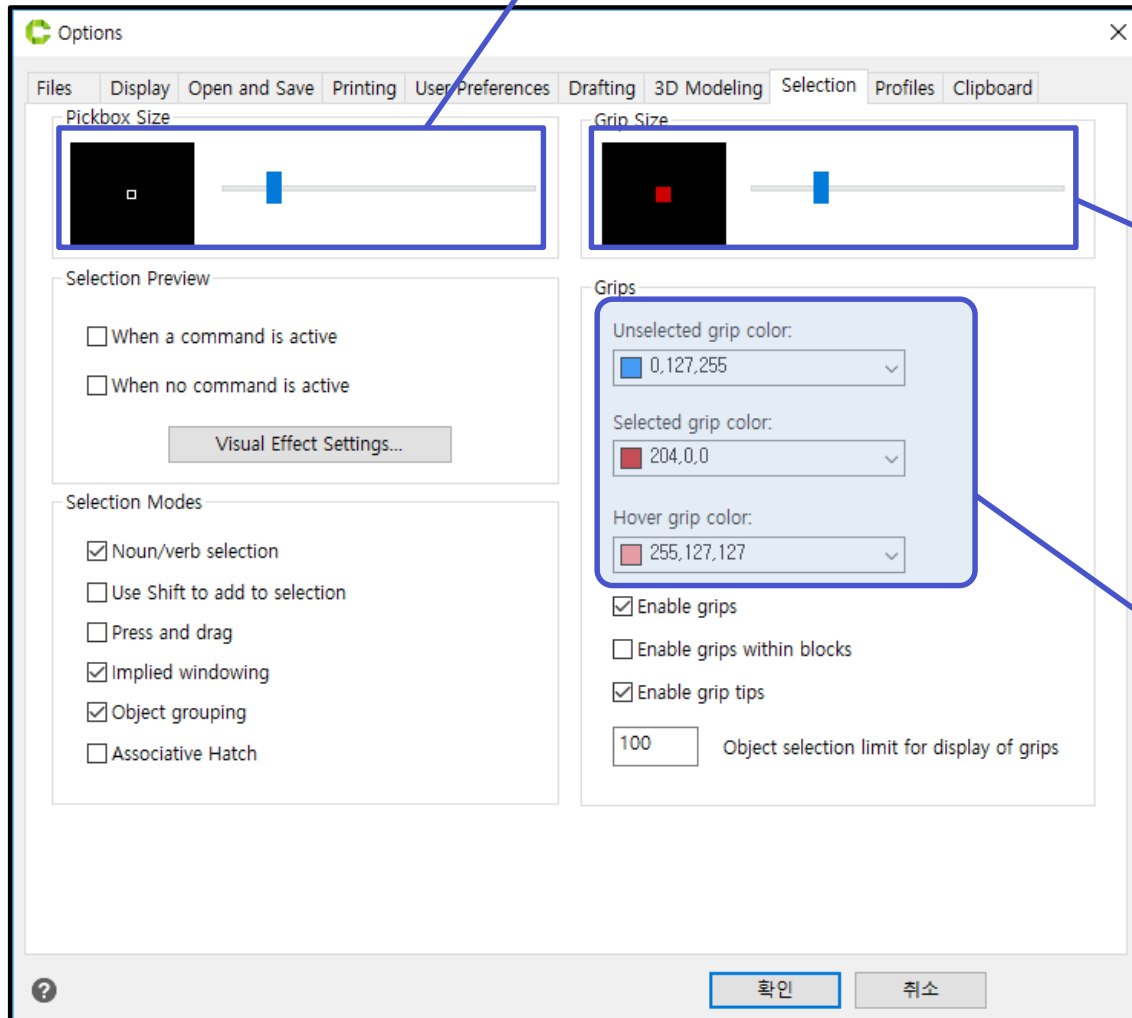
Box size in crosshairs

Only during command execution

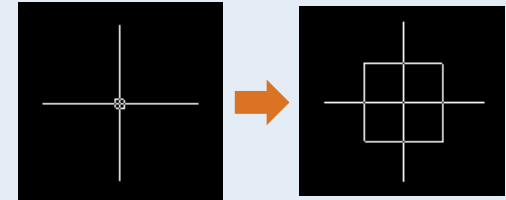


Increasing the slide increases the size

Selection - 1

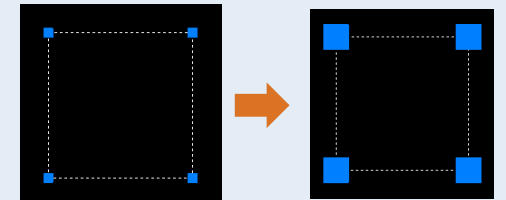


Selection box size (PICKBOX)



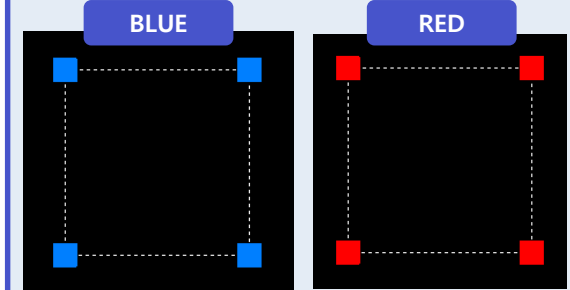
Increasing the slide increases the size

GRIPSIZE

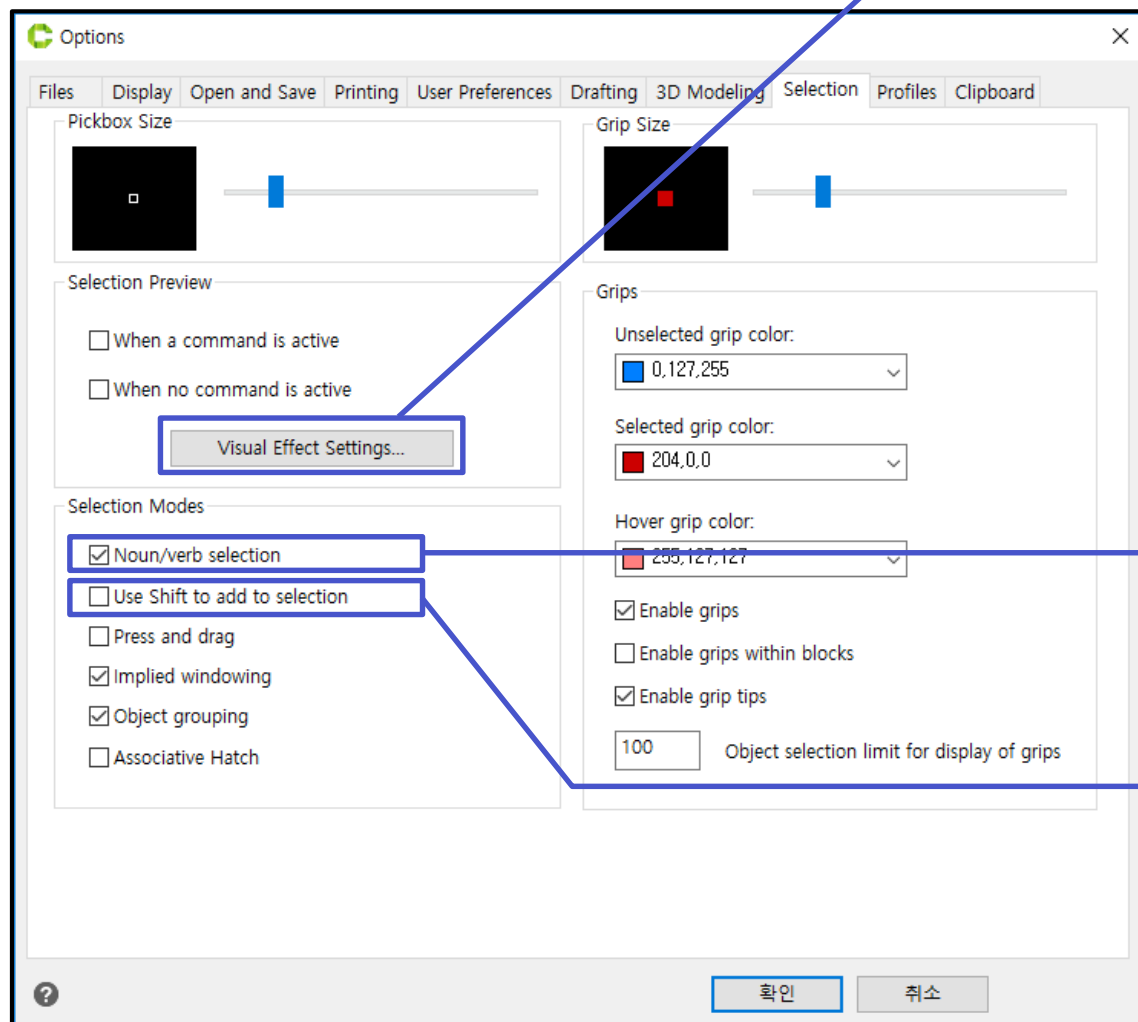


Increasing the slide increases the size

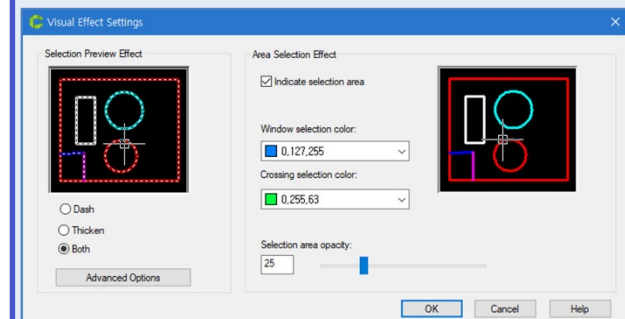
GRIP COLOR



Selection - 2



SELECTIONAREA



Settings for the SELECTIONAREA created when dragging with the mouse

Object selection order (NOTE)

Detect object selection before and after command execution

Additon Selection (NOTE)

If you check it, you can press SHIFT key to make additional selection.

STATUS BAR

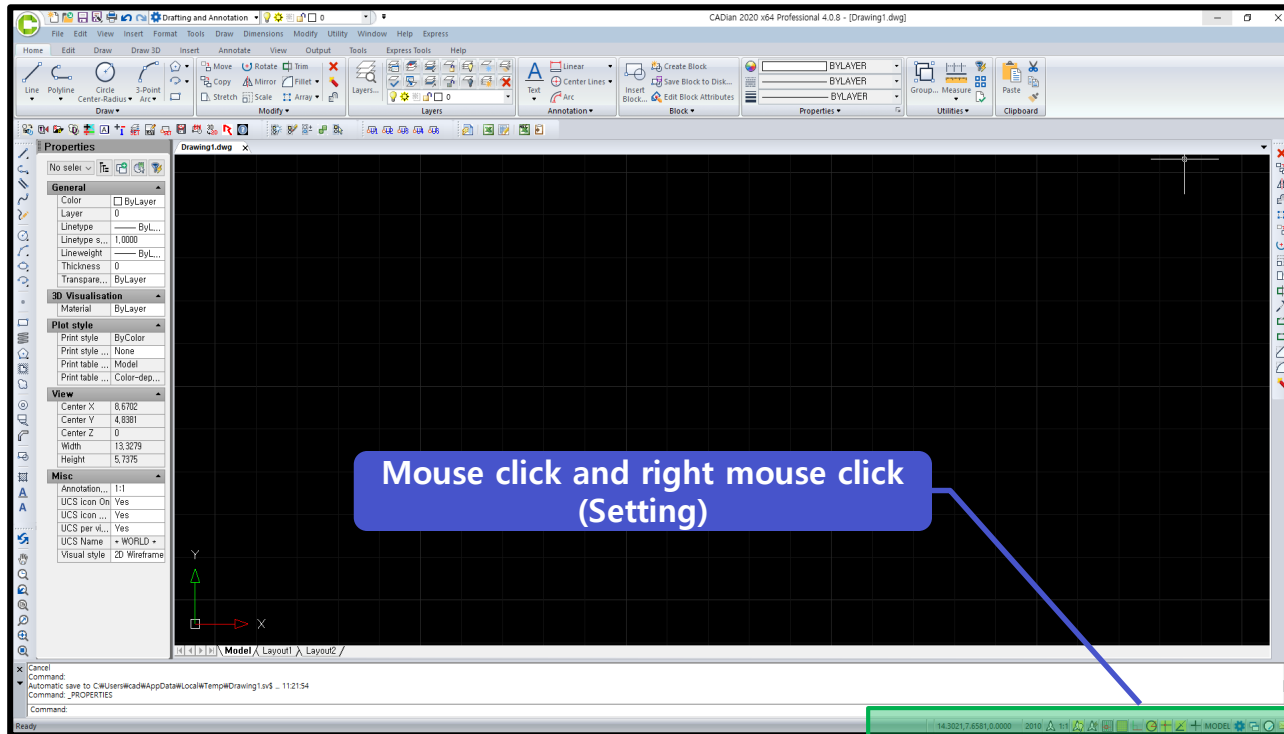
CADian 2020



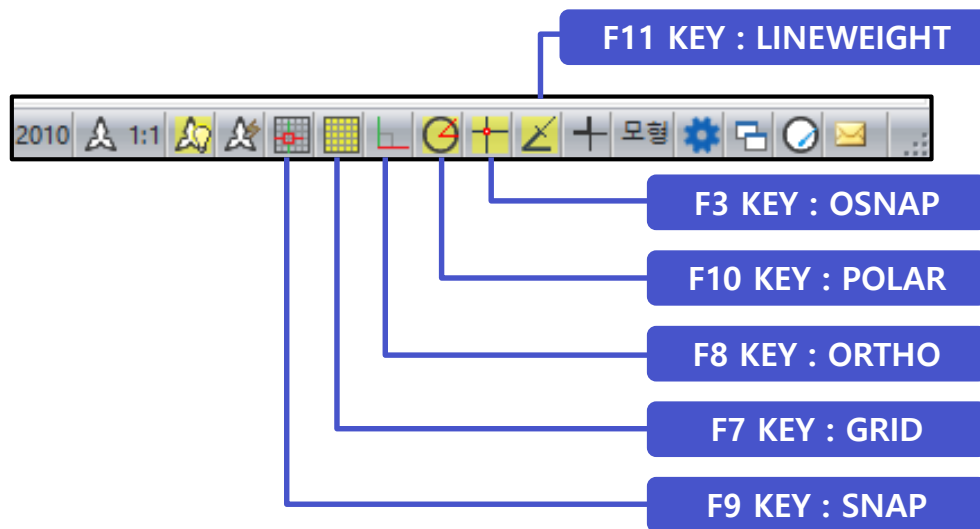
POSITON

Frequently used functions

- . ORTHOGONAL
- . POLAR TRACKING
- . OBJECT(ENTITY) SNAP
- . OSNAP TRACKING



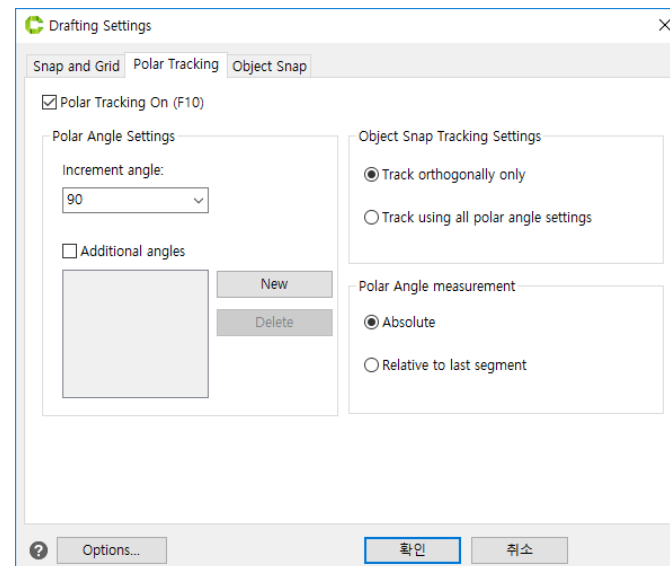
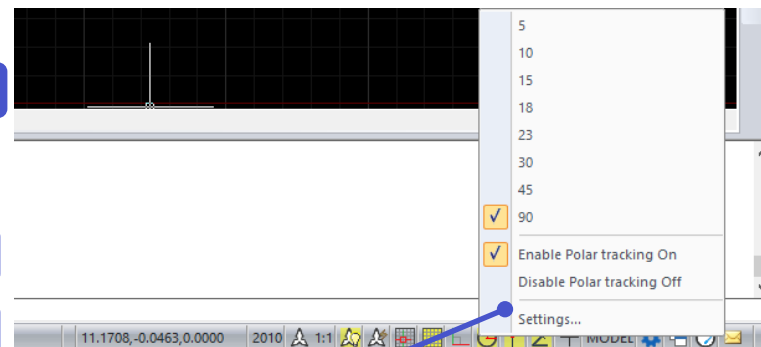
SHORT KEY



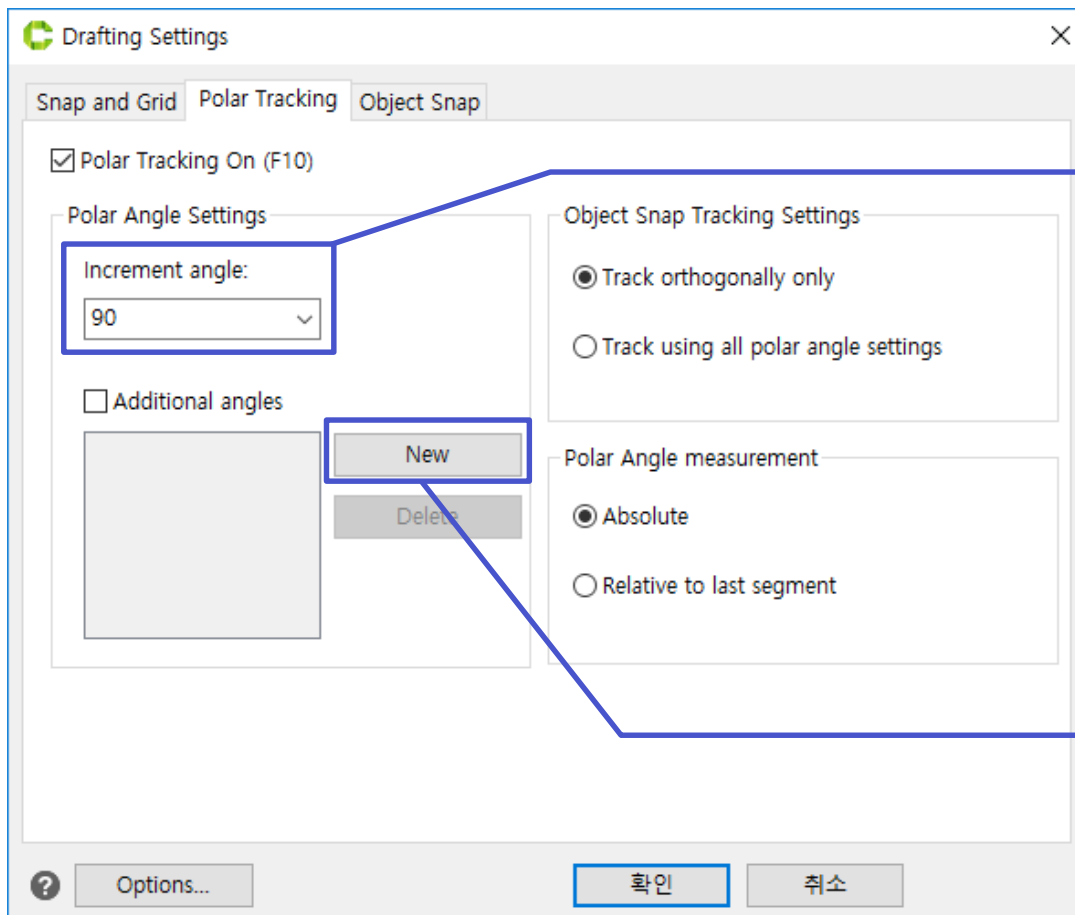
Frequently used functions

- . ORTHO (F8)
- . POLAR (F10)
- . OSNAP (F3)

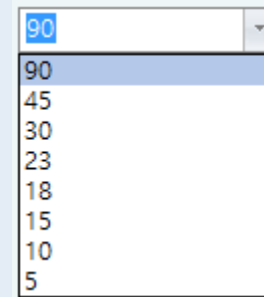
SETTING



Polar Tracking



Increment Angle



Base Angle

Additional Angles

Function to add any angle value

Object(Entity) Snap

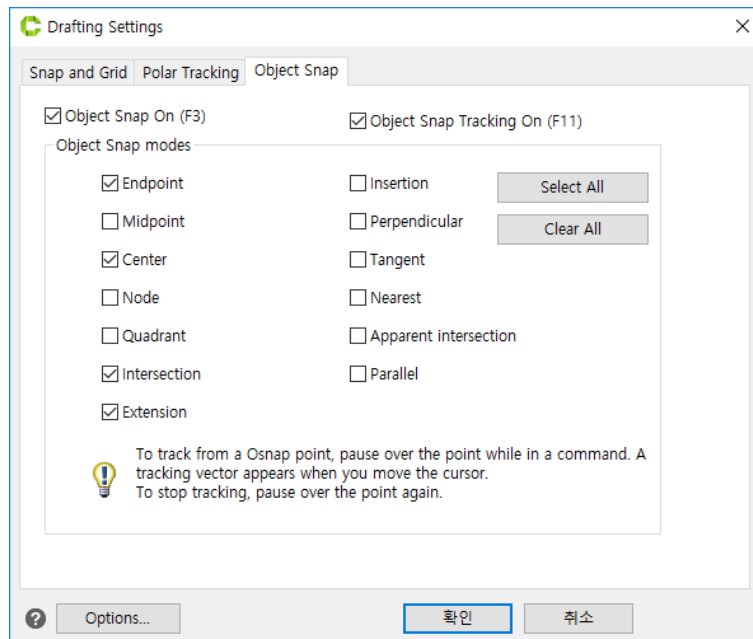
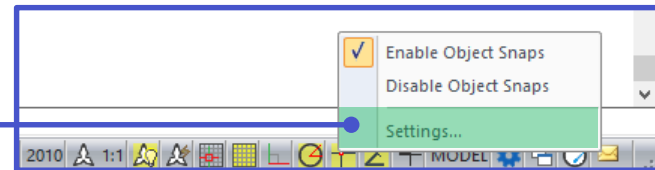
CADian 2020
















Object(Entity) Snap

Command : OS (OSNAP)

Object Snap -> Right mouse click -> Click Settings



OBJECT SNAP

	ENDPOINT	: End of Object		Insertion	: Used mainly for block or xref
	MIDPOINT	: Middle of Object		Perpendicular	: A point perpendicular to the collinear line
	Center	: Center of Object (Circle, Arc)		Tangent	: Tangent indication for Circle, Arc
	Node	: Mainly used for the divide command		Nearest	: Display if there is an object in the aperture
	Quardant	: Quardant for Circle, Arc		Apparent intersection	: Indicates where to cross. (3d only)
	Intersection	: Indicates where to cross.		Parallel	: Parallel points for the object
	Extention	: A point extending from the object			

The entity snap symbol actually occurs when drawing the drawing.