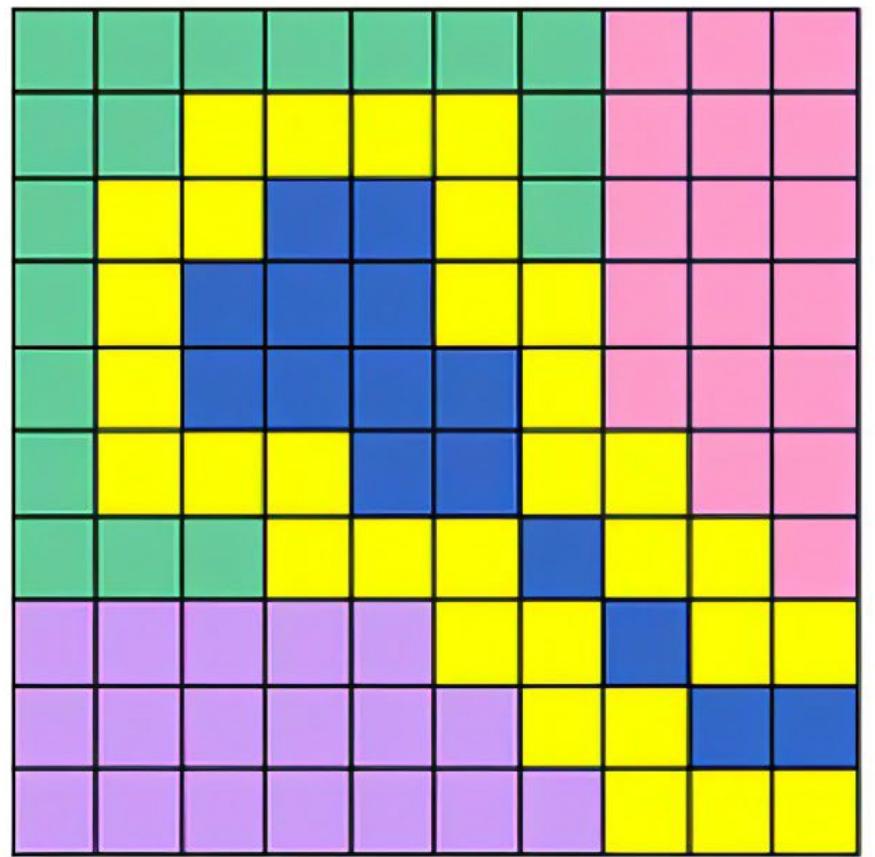


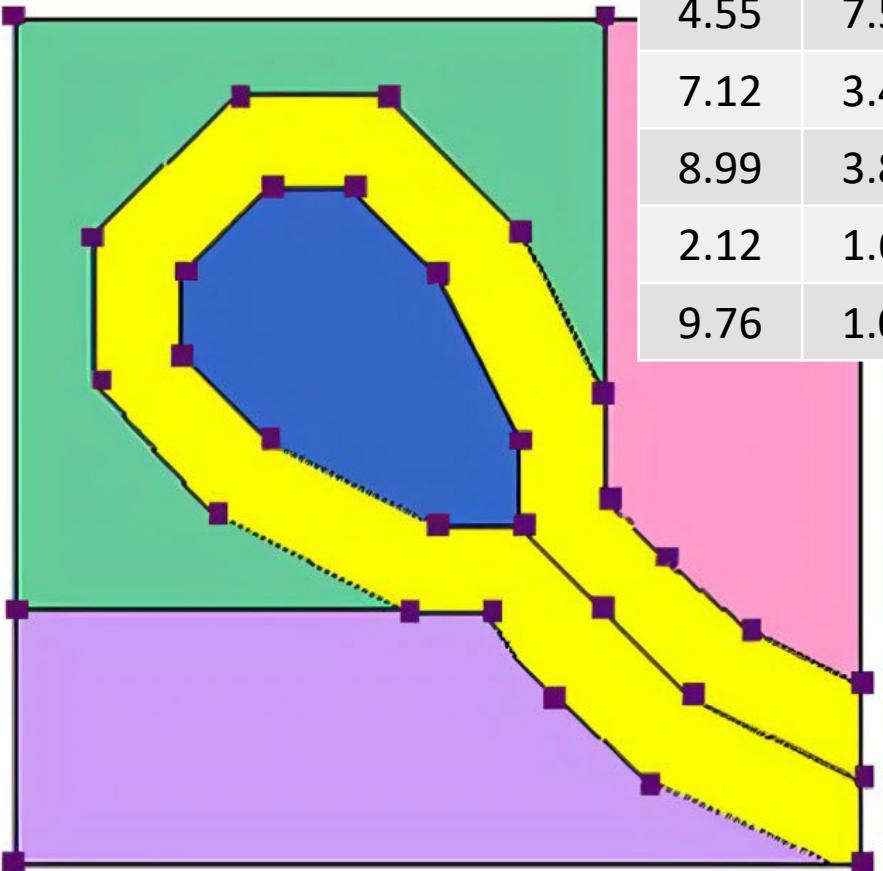
Digital Drawing with Autocad

Stefano Bordoni

Raster vs Vectors

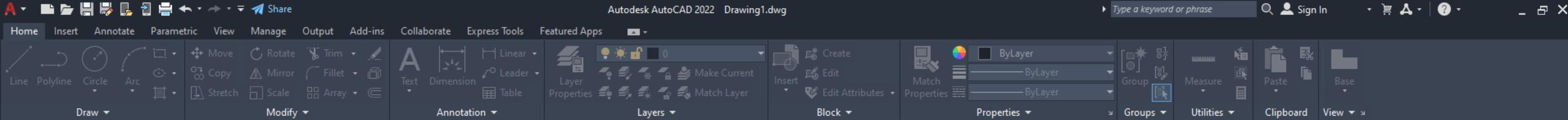


Raster = pixels + colours

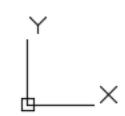
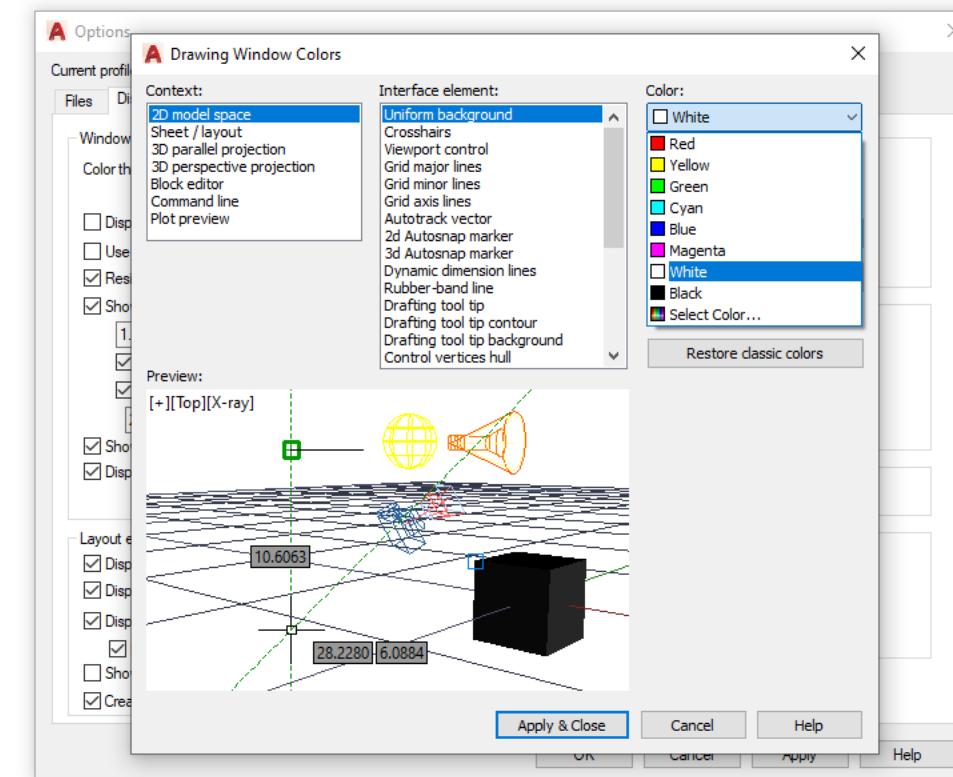
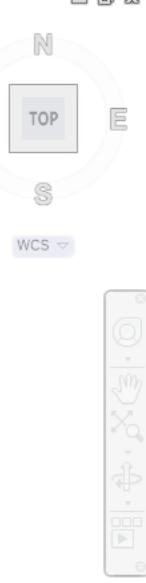


Vector = coordinates + features

X	Y	Z	Properties
3.22	1.77	1.12	...
4.57	3.56	1.34	...
6.78	5.78	3.88	...
3.92	3.21	5.15	...
4.55	7.59	6.51	...
7.12	3.44	7.31	...
8.99	3.83	5.45	...
2.12	1.66	1.59	...
9.76	1.09	2.01	...



[–][Top][2D Wireframe]

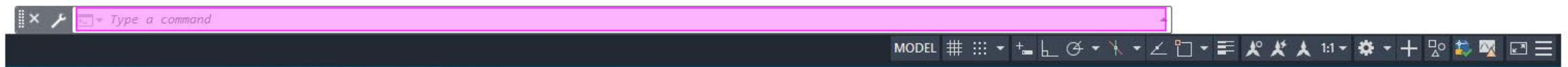


_options

MODEL

Bottom bar

Command line



Bottom bar



Grid

Bottom bar



Dynamic input

Bottom bar



Orthomode

Bottom bar



Polar mode

Bottom bar



Track mode

Bottom bar



Snap

Bottom bar



Line weight

Bottom bar



2D/3D

Playing with commands

ESC

To exit from a command or
any time something is wrong...

DELETE

To delete selected objects



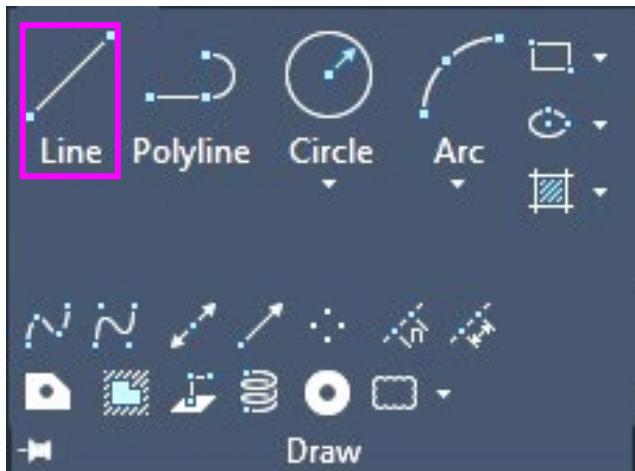
LETTERS

To type commands

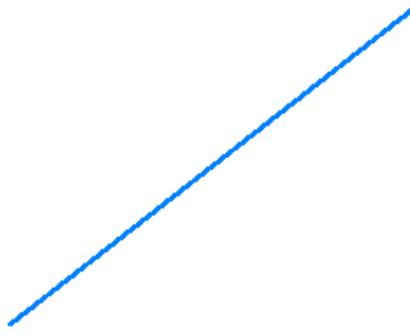
ENTER

To recall the previous command or to
proceed through the command path.

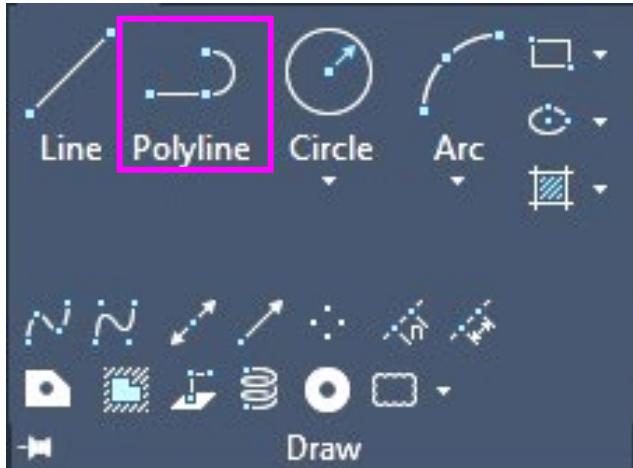
Drawing commands



Line
Polyline
Circle
Arc
Polygon
Ellipse
Spline
Hatch



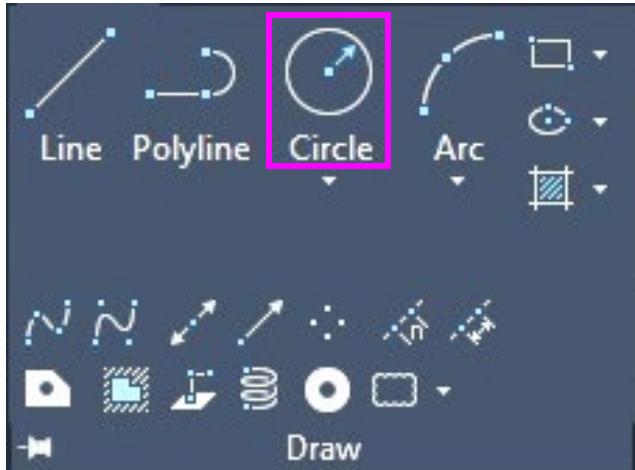
Drawing commands



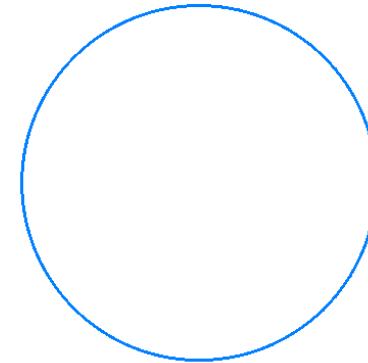
Line
Polyline
Circle
Arc
Polygon
Ellipse
Spline
Hatch



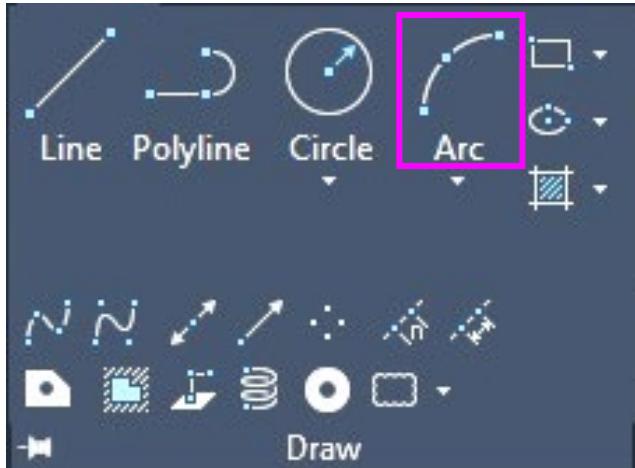
Drawing commands



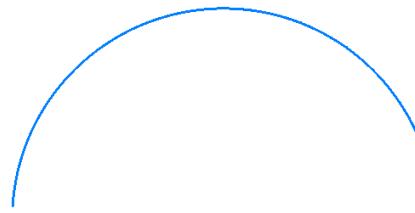
Line
Polyline
Circle
Arc
Polygon
Ellipse
Spline
Hatch



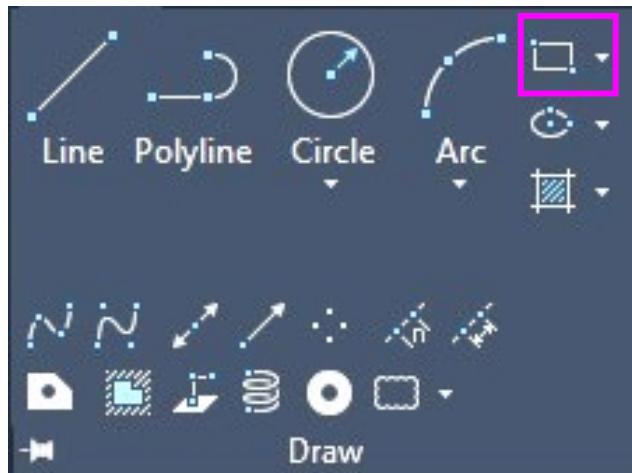
Drawing commands



Line
Polyline
Circle
Arc
Polygon
Ellipse
Spline
Hatch



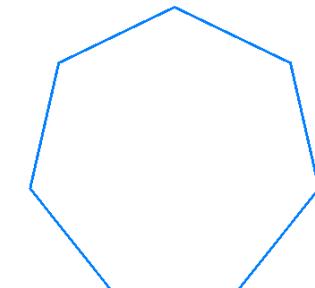
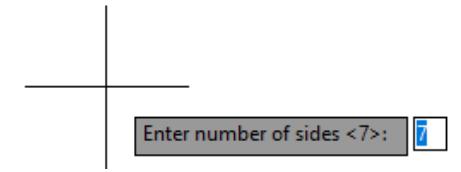
Drawing commands



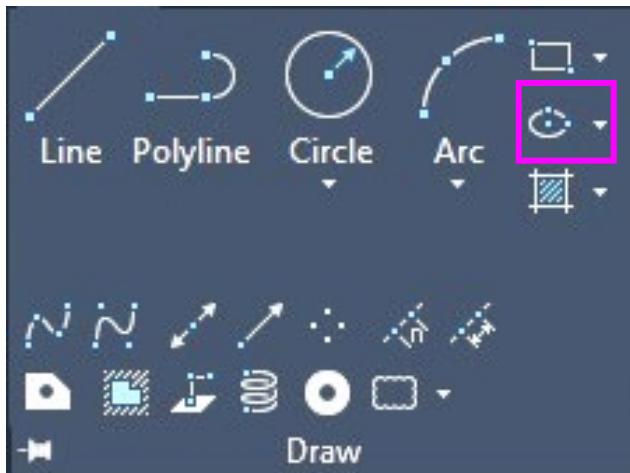
Line
Polyline
Circle
Arc
Polygon
Ellipse
Spline
Hatch



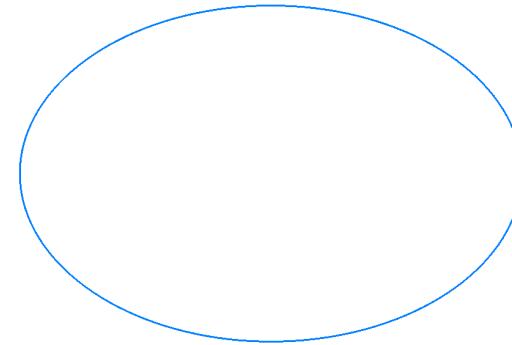
Rectangle
Polygon



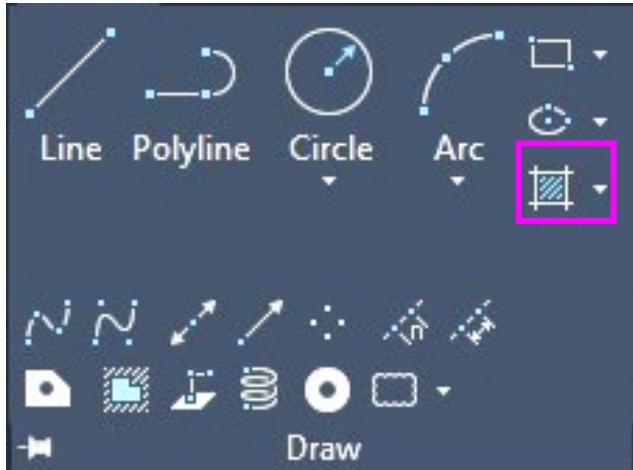
Drawing commands



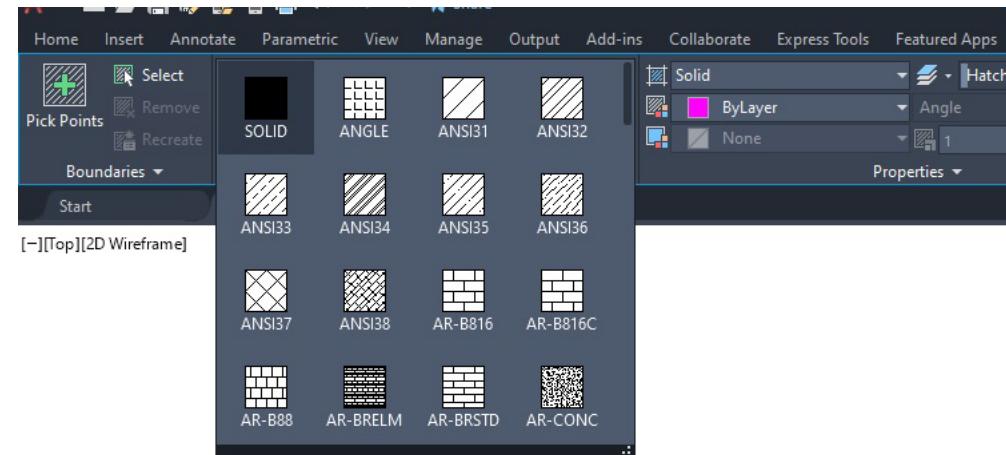
Line
Polyline
Circle
Arc
Polygon
Ellipse
Spline
Hatch



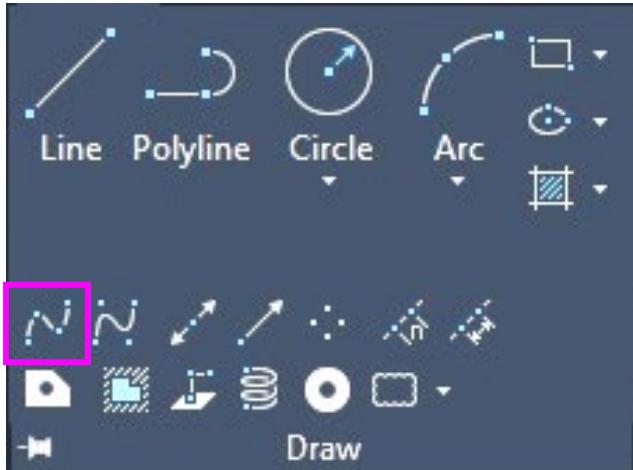
Drawing commands



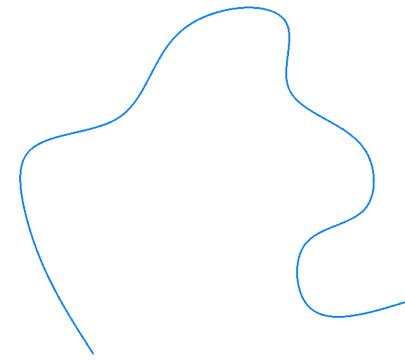
Line
Polyline
Circle
Arc
Polygon
Ellipse
Spline
Hatch

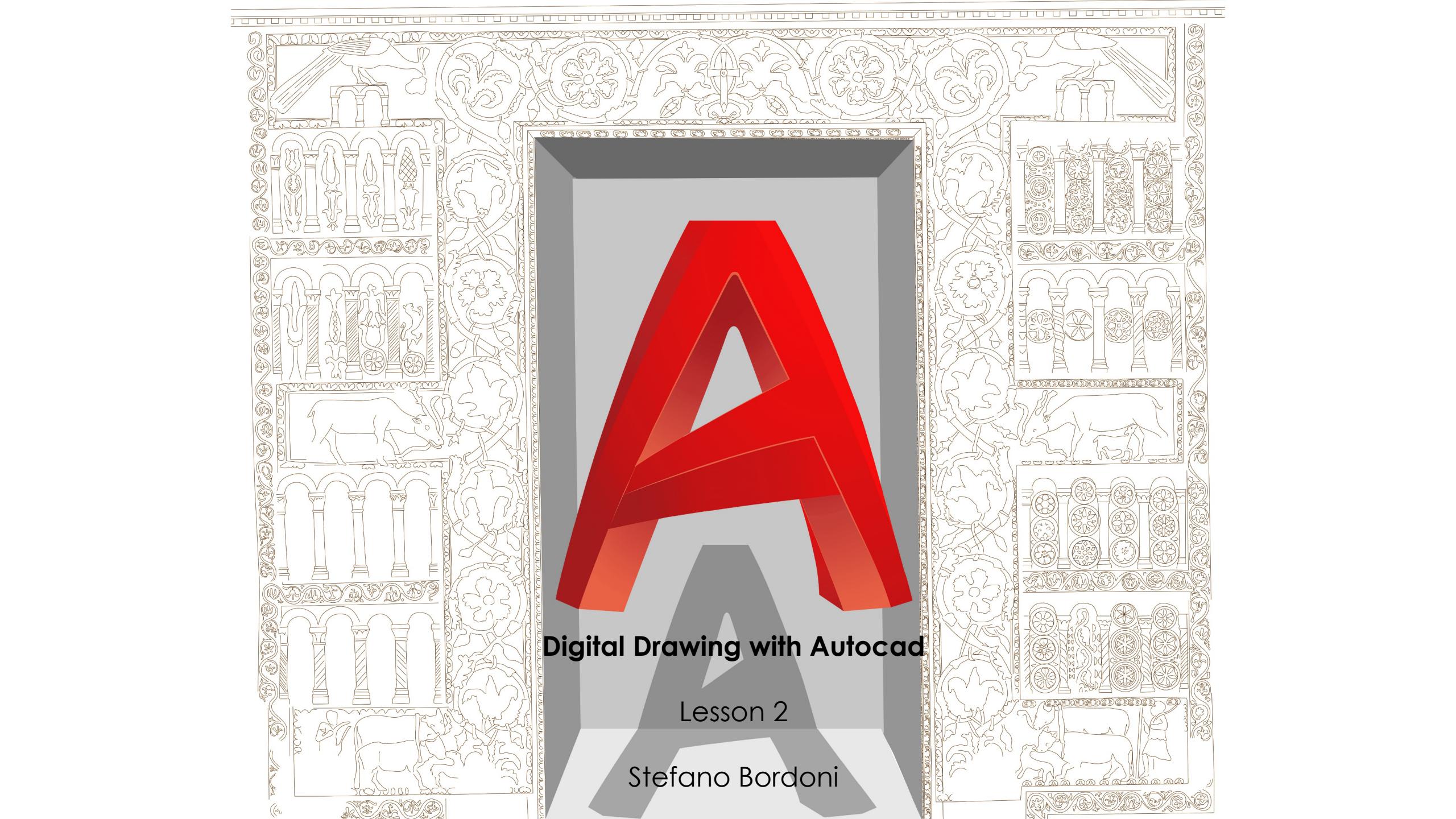


Drawing commands



Line
Polyline
Circle
Arc
Polygon
Ellipse
Spline
Hatch



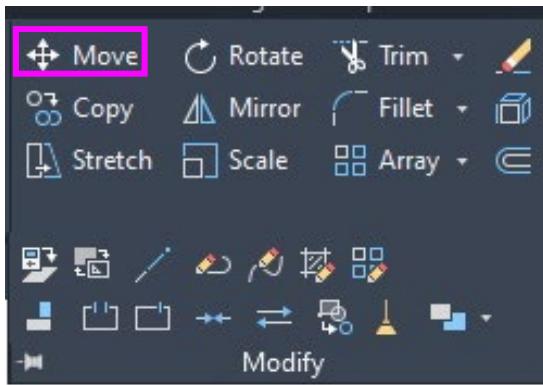


Digital Drawing with Autocad

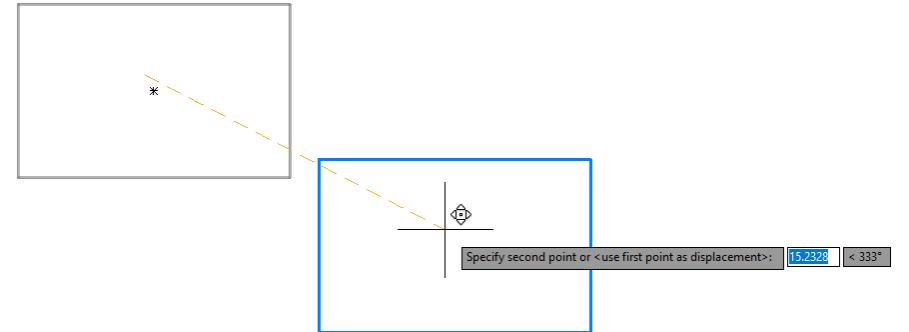
Lesson 2

Stefano Bordoni

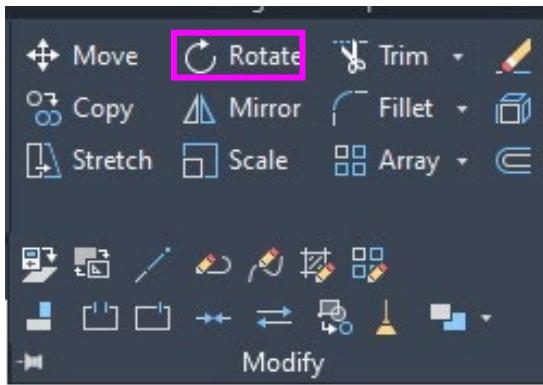
Modifying commands



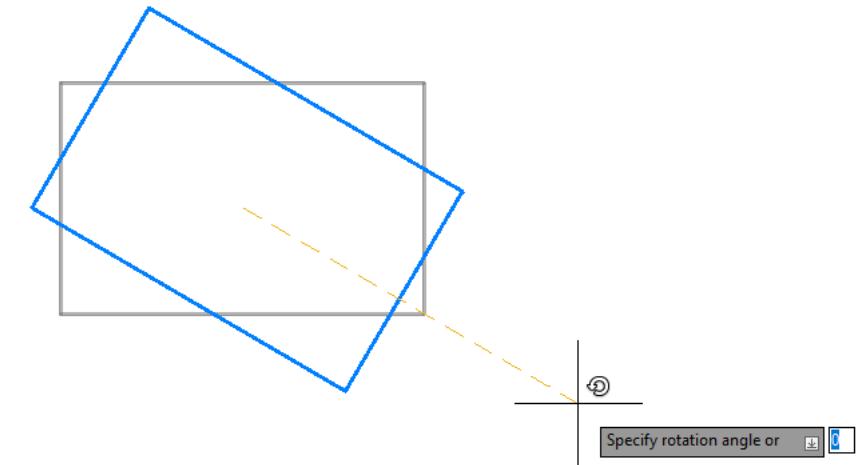
Move
Rotate
Trim
Cancel
Copy
Mirror
Explode
Scale
Array
Offset
Break
Bring



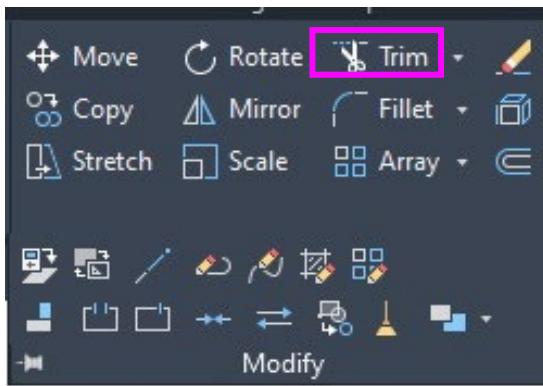
Modifying commands



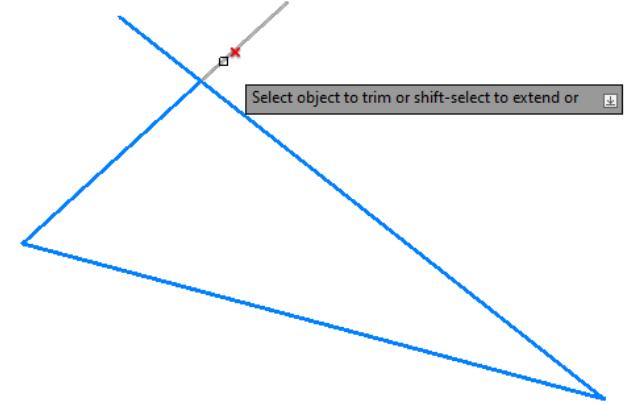
Move
Rotate
Trim
Cancel
Copy
Mirror
Explode
Scale
Array
Offset
Break
Bring



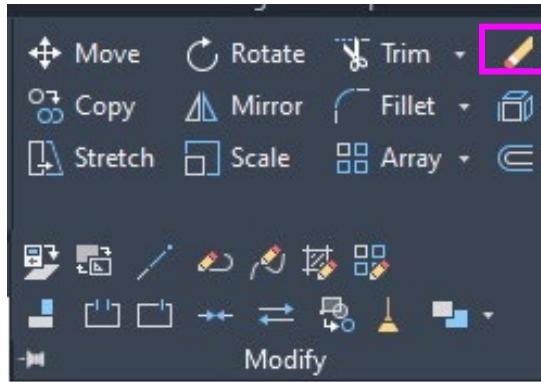
Modifying commands



Move
Rotate
Trim
Cancel
Copy
Mirror
Explode
Scale
Array
Offset
Break
Bring



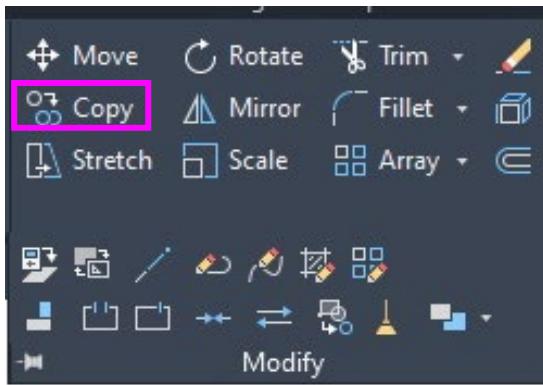
Modifying commands



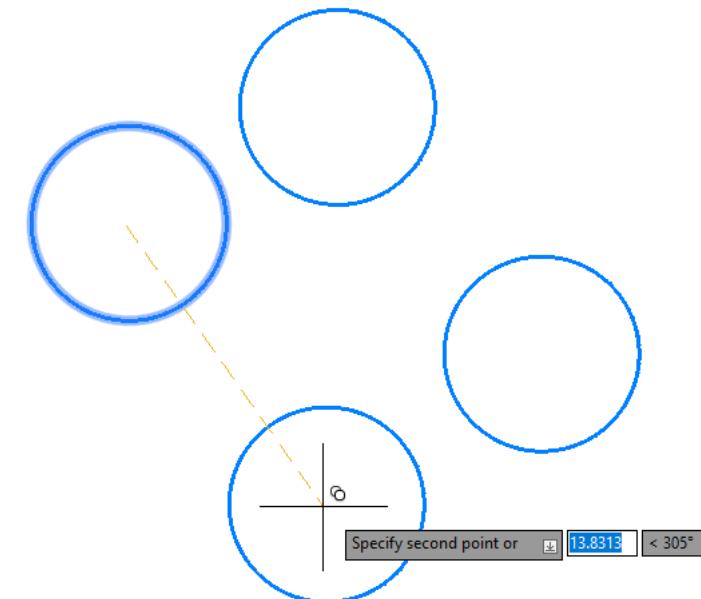
Move
Rotate
Trim
Cancel
Copy
Mirror
Explode
Scale
Array
Offset
Break
Bring

...or simply select an object with your mouse and push the 'delete' button on your keyboard...

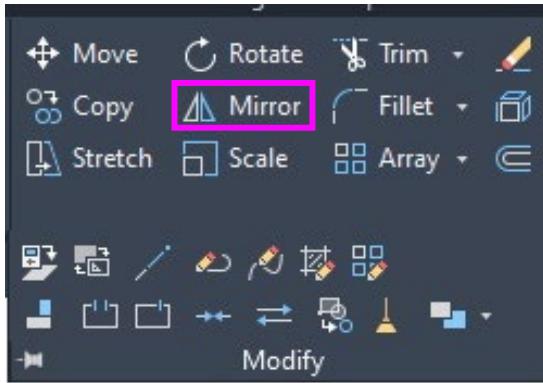
Modifying commands



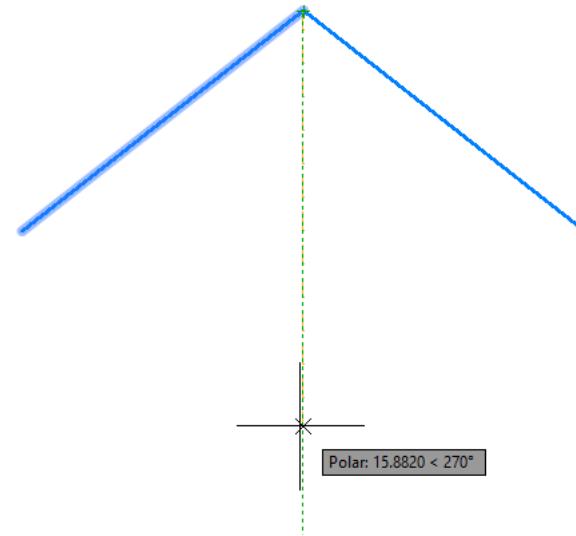
Move
Rotate
Trim
Cancel
Copy
Mirror
Explode
Scale
Array
Offset
Break
Bring



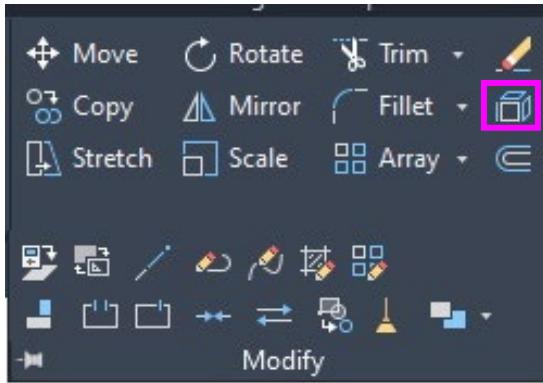
Modifying commands



Move
Rotate
Trim
Cancel
Copy
Mirror
Explode
Scale
Array
Offset
Break
Bring



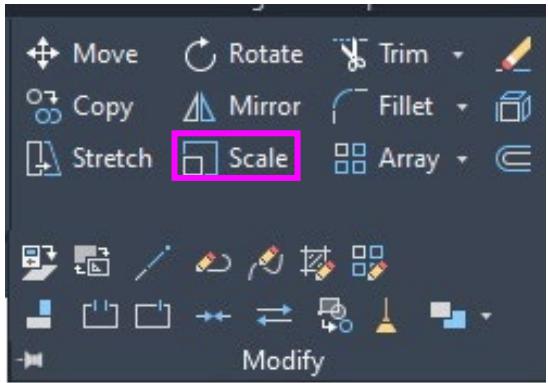
Modifying commands



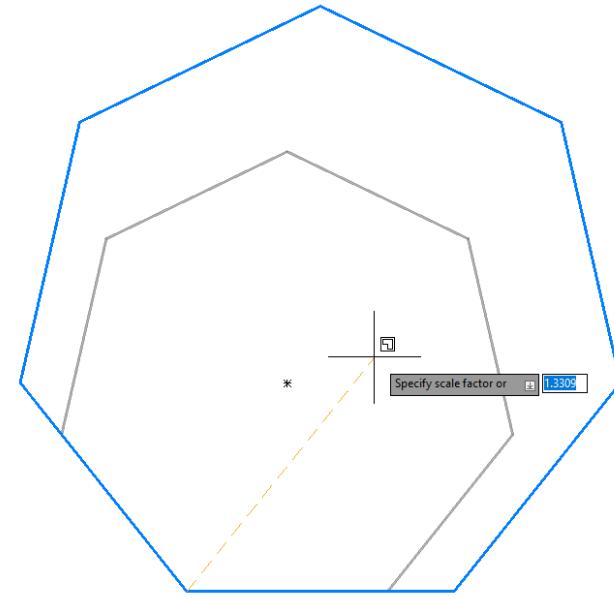
Move
Rotate
Trim
Cancel
Copy
Mirror
Explode
Scale
Array
Offset
Break
Bring

To unify objects, instead, type 'UNITE'

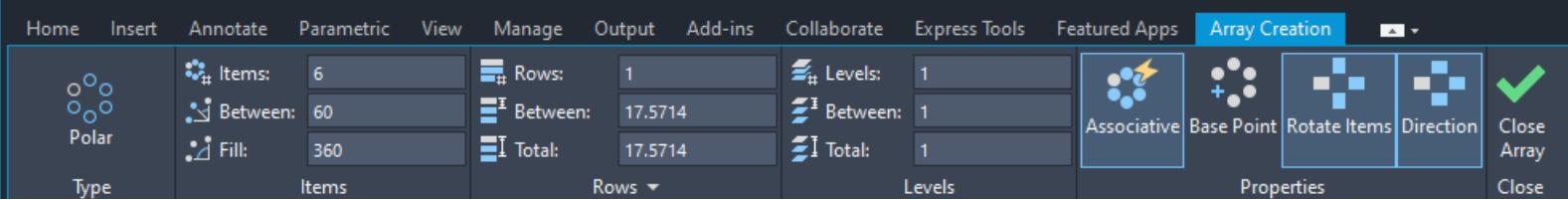
Modifying commands



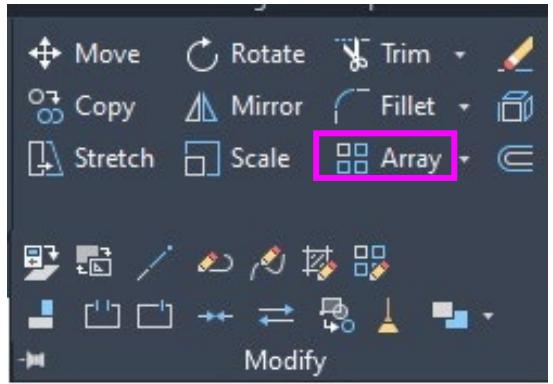
Move
Rotate
Trim
Cancel
Copy
Mirror
Explode
Scale
Array
Offset
Break
Bring



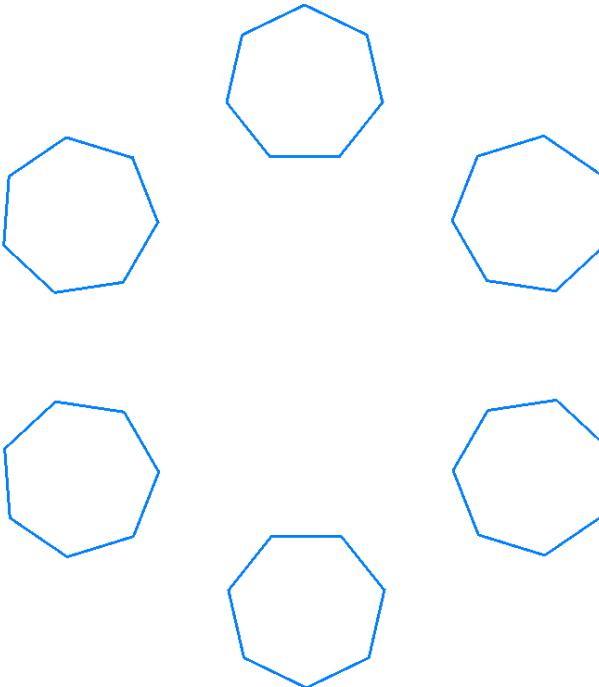
...also through a reference...



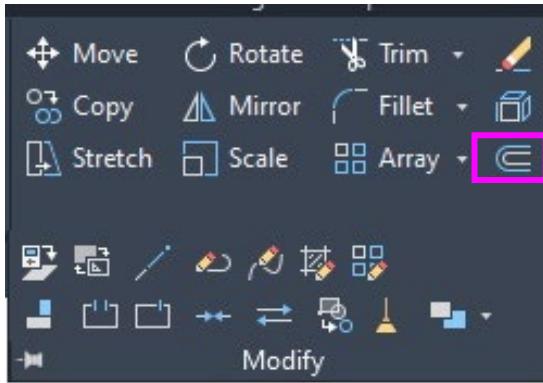
Modifying commands



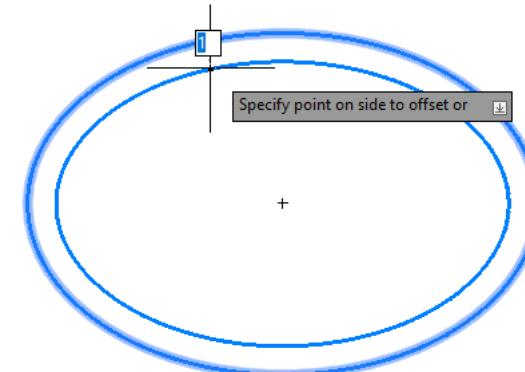
Move
Rotate
Trim
Cancel
Copy
Mirror
Explode
Scale
Array
Offset
Break
Bring



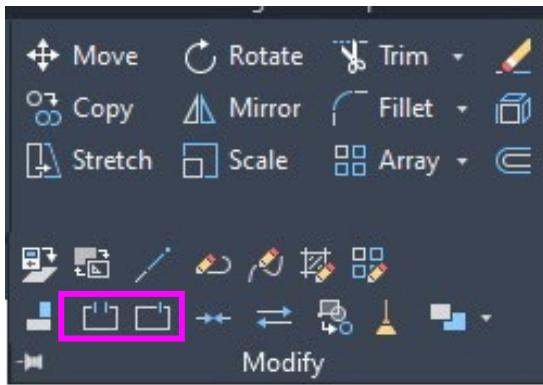
Modifying commands



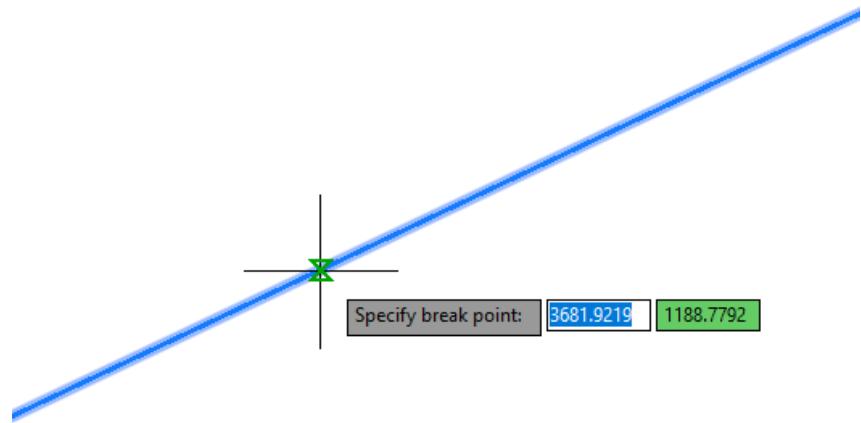
Move
Rotate
Trim
Cancel
Copy
Mirror
Explode
Scale
Array
Offset
Break
Bring



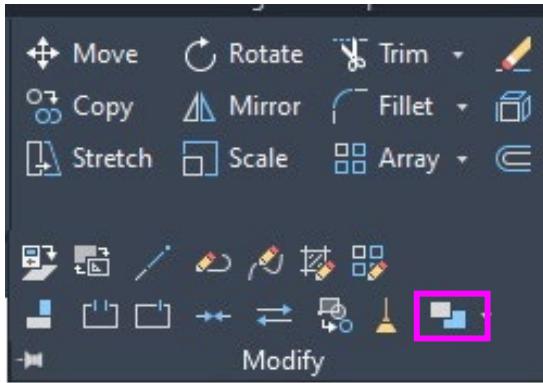
Modifying commands



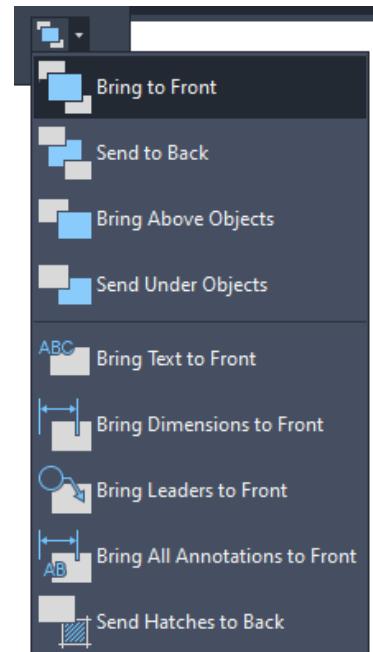
Move
Rotate
Trim
Cancel
Copy
Mirror
Explode
Scale
Array
Offset
Break
Bring



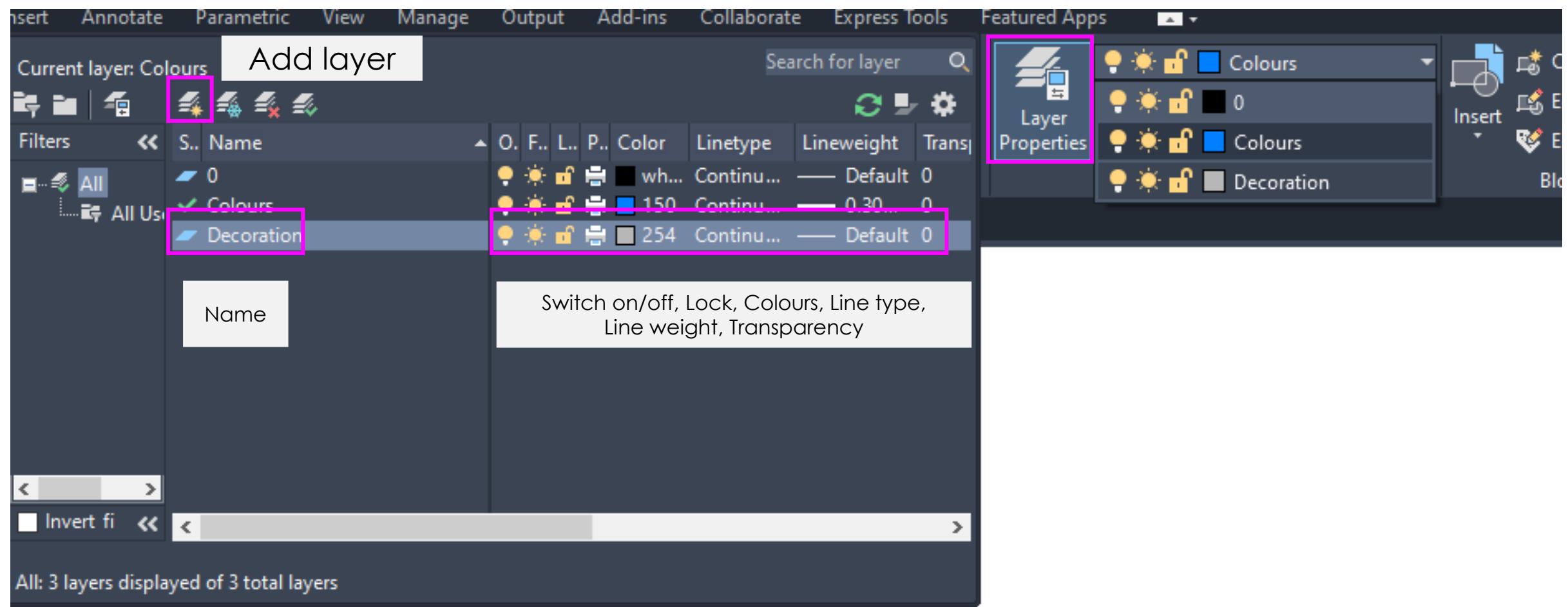
Modifying commands



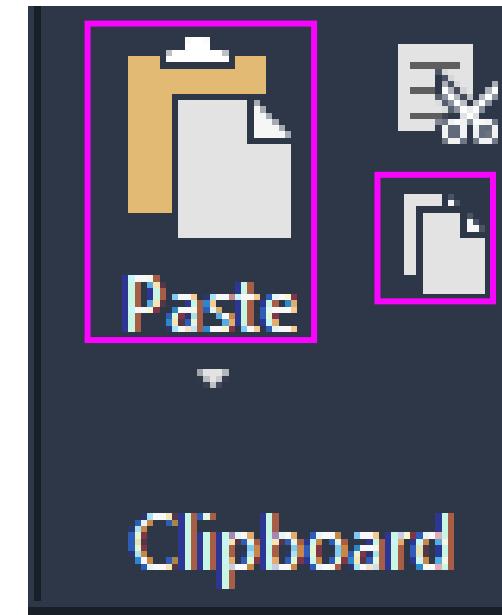
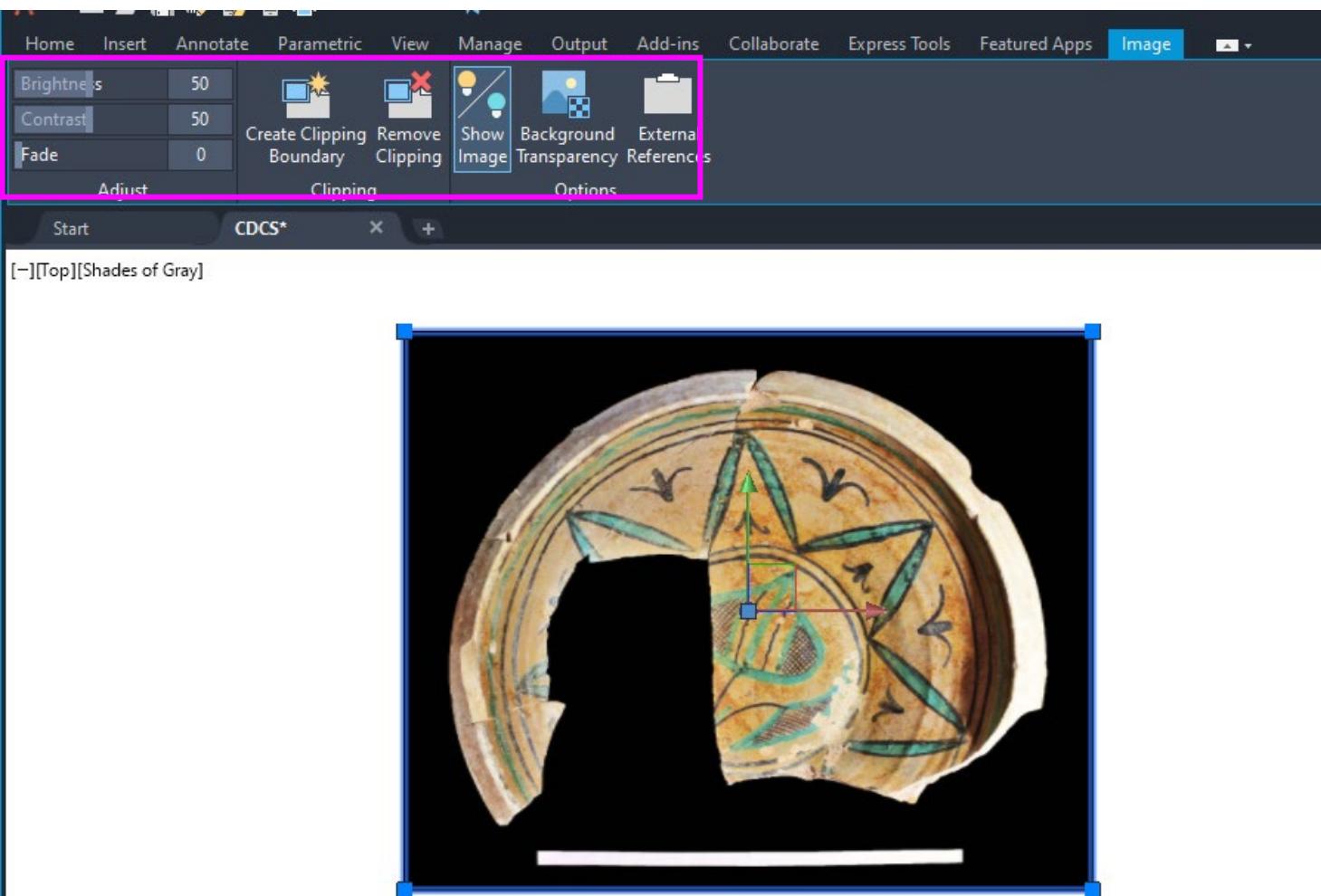
Move
Rotate
Trim
Cancel
Copy
Mirror
Explode
Scale
Array
Offset
Break
Bring



Managing layers

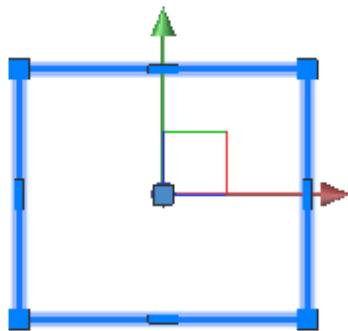
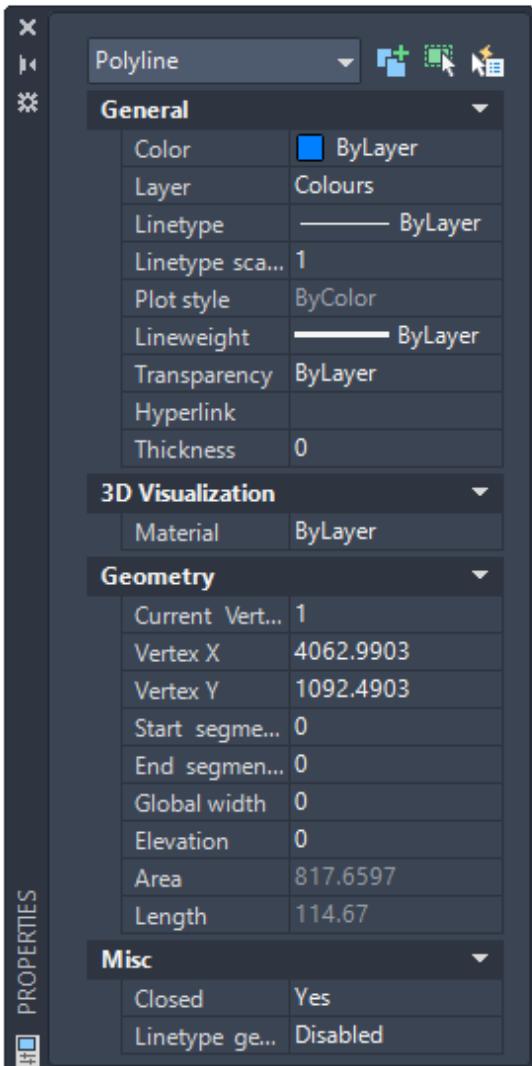


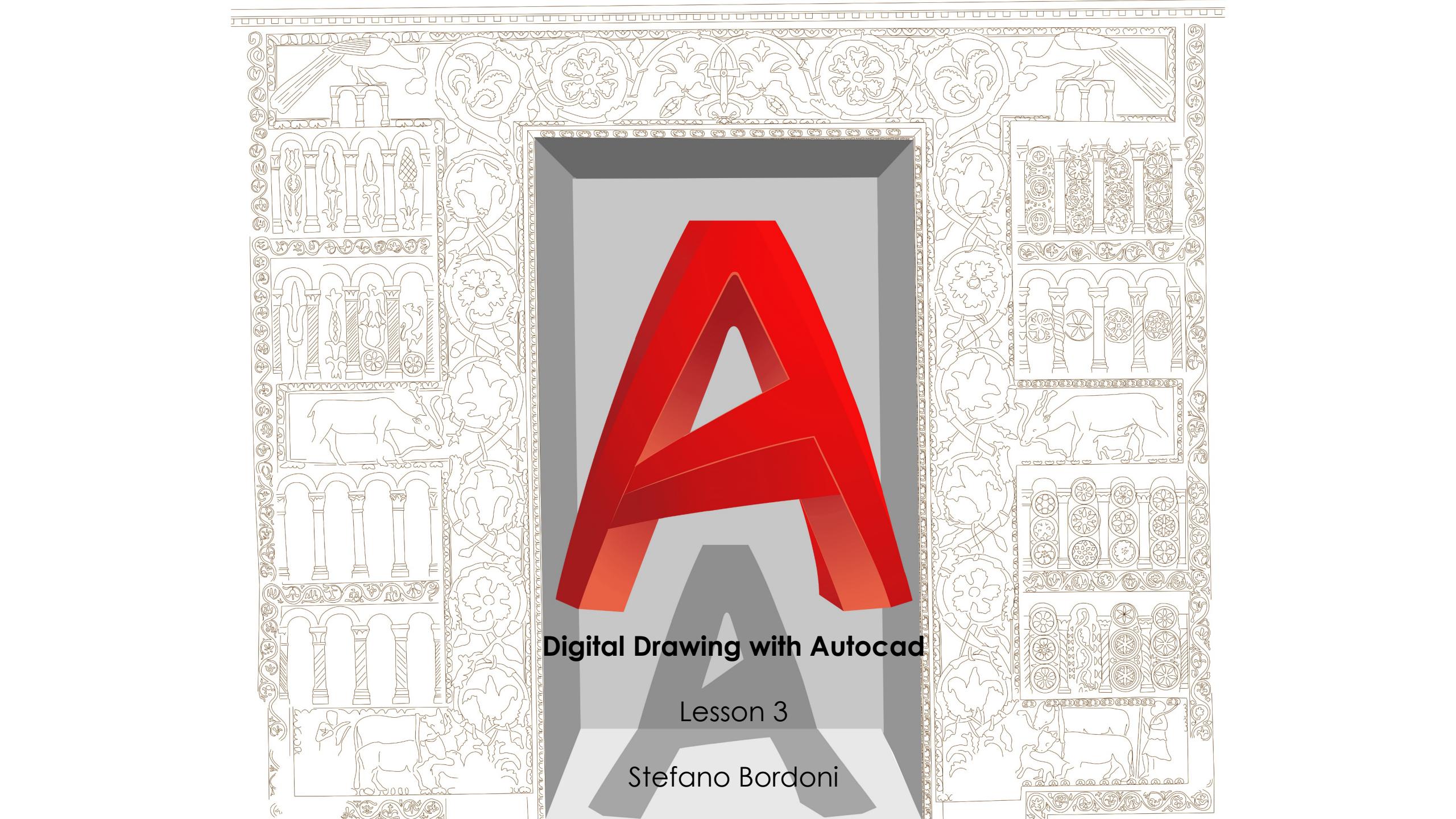
Paste / Import / Managing raster data



Copy clip

Managing properties





Digital Drawing with Autocad

Lesson 3

Stefano Bordoni



Start misure_ED* +

[–][Top][2D Wireframe]

N

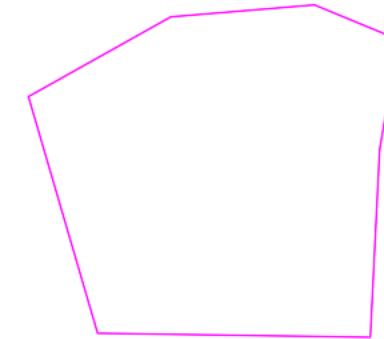
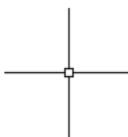
W

TOP

E

S

WCS



Command: Specify opposite corner or [Fence/WPolygon/CPolygon]:
Command: _erase 1 found

x Type a command

Model Layout1 Layout2 +

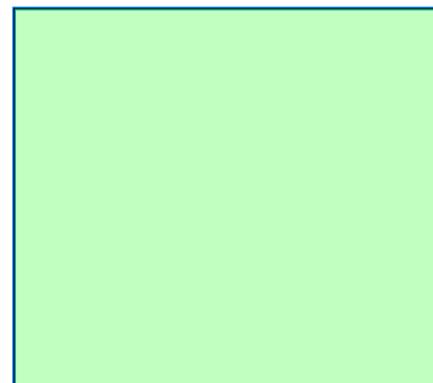
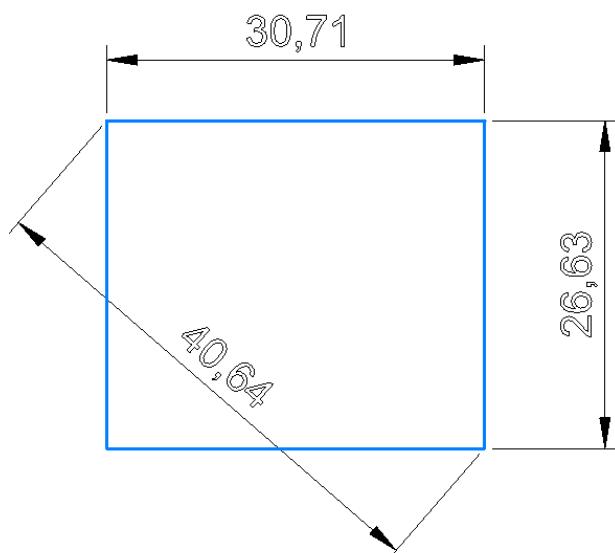
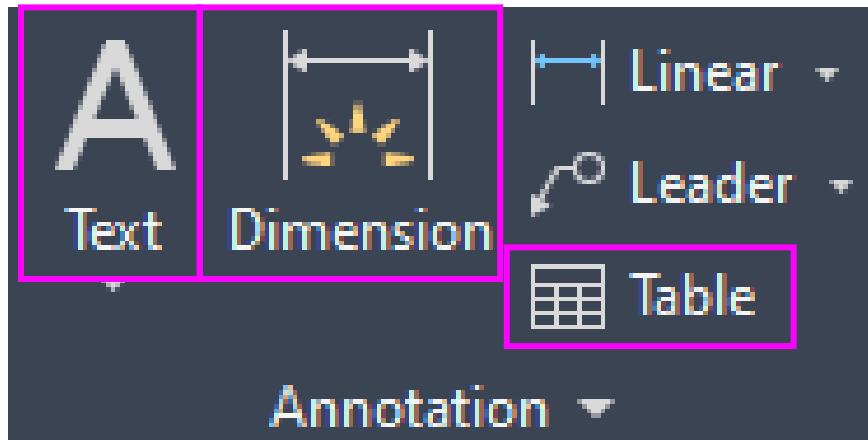
MODEL 1:1 13:43 Rain to stop ENG 29/03/2022

Type here to search

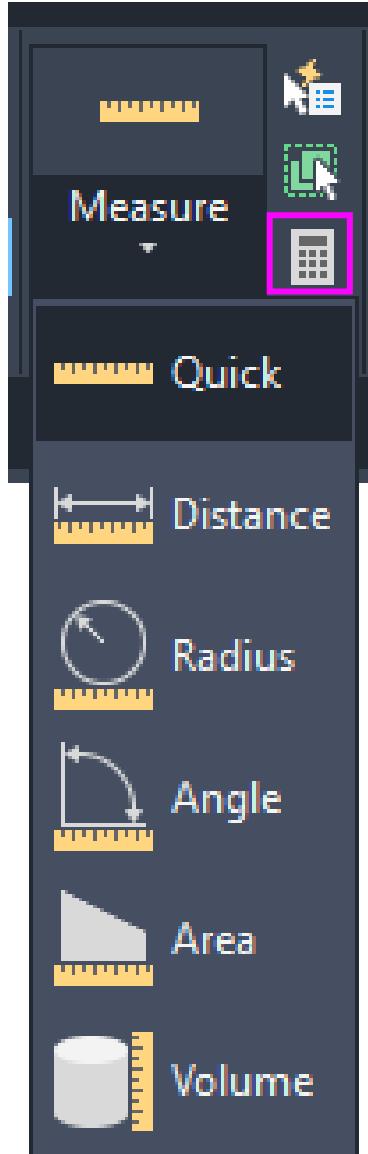


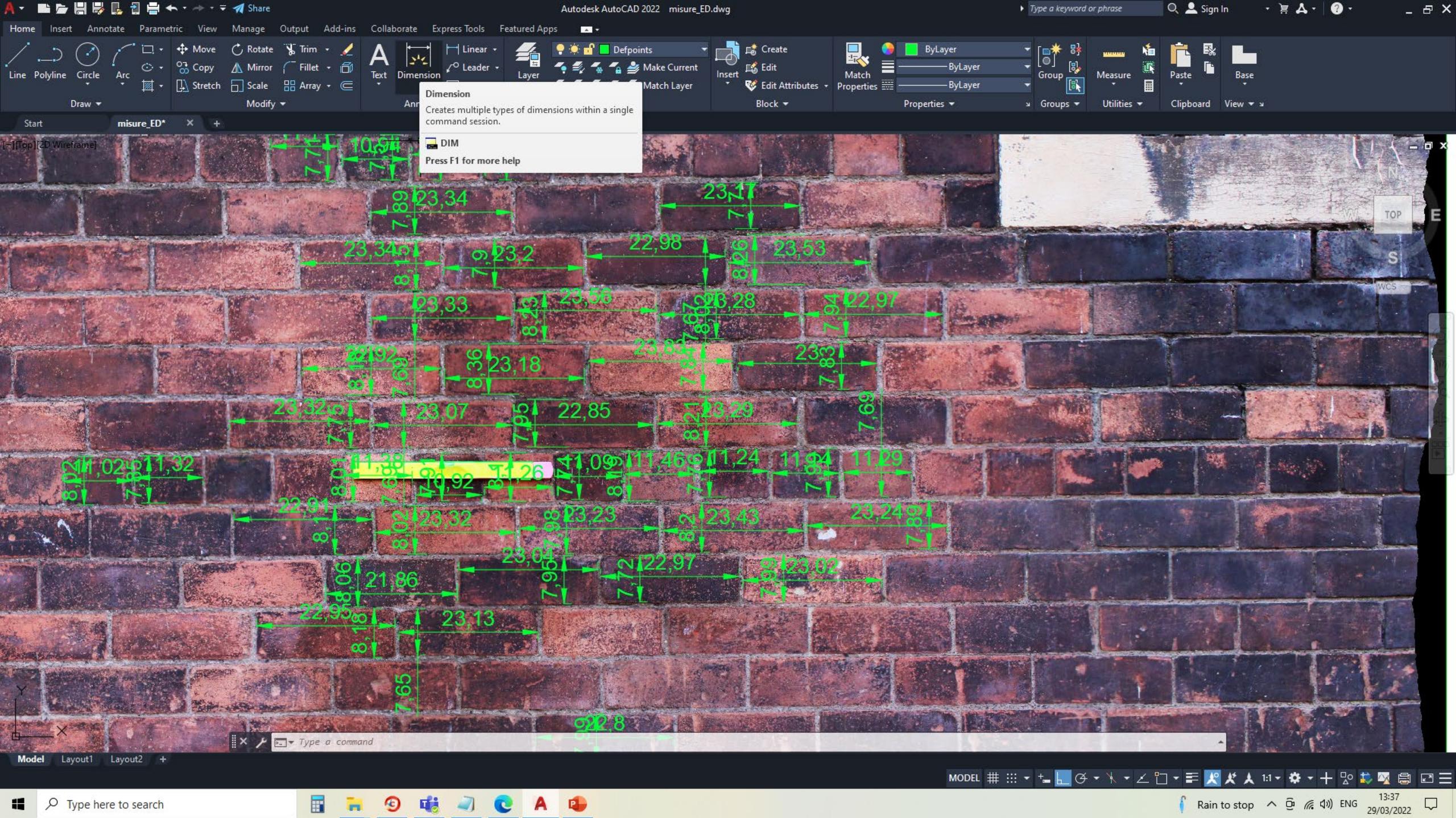
13:43 Rain to stop ENG 29/03/2022

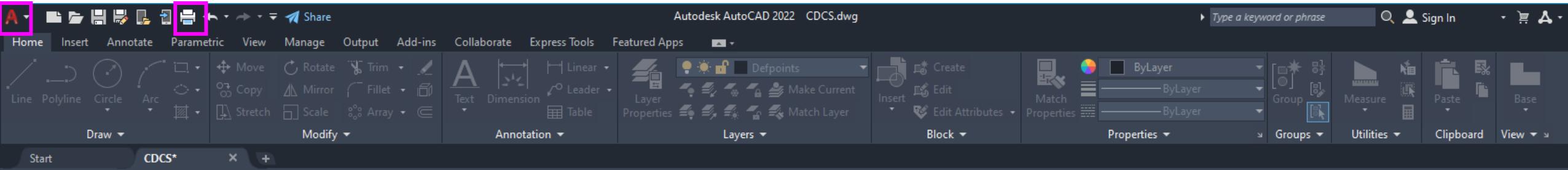
Measuring / Writing / Noting



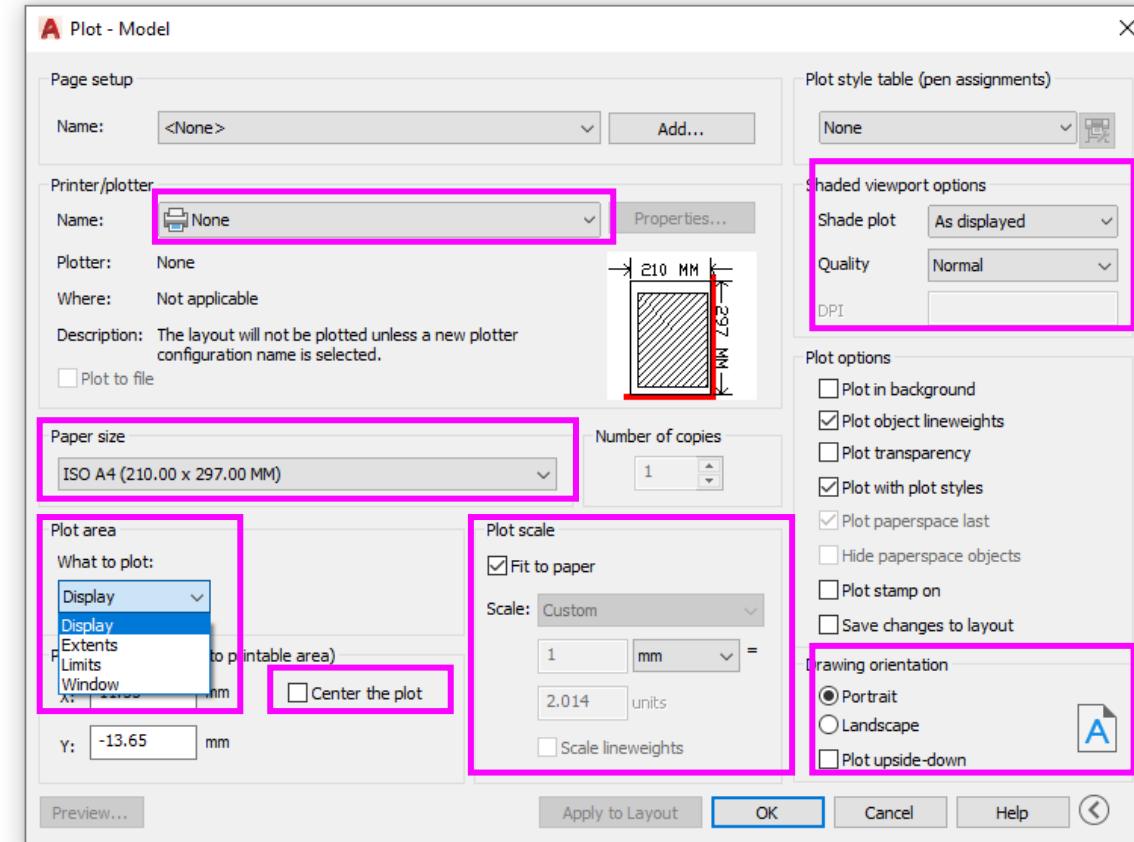
Area = 817.6597, Perimeter = 114.6700
Enter an option
Distance
Radius
Angle
• Area







[–][Top][Shades of Gray]



Printing

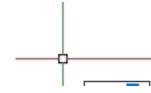
Solving or preventing high frustration rates with AutoCAD

A few suggestions on how to avoid common issues in
order not to suddenly end your AutoCAD life...



Other useful stuff...

'Autocad has botched my drawing off!'



CESTELLI: CIUES·DILIGAT· IUSTITIE· Vires:
ET· SINT· QCORDES· EAM· DISPONERE· OMES:
Q · CIUITAS· CRESCEIT· PAVIS· EMULS· NESCIT:
NAM· BENE· NOUERIT· MOUTENSIA· que· euenerit:
TIBI· ERGO· XPE· ACCEPTUS· SIT· PPLUS· TSTE:
UT· INHOQ· ATTRIO· PULCHRO· NEGAT· IUSTITIE· CULTU·

Command: REGEN

Other useful stuff...

'Autocad is refusing to fill my polygons!'



Option 1

You haven't properly closed those polygons!

Always use "Close" (CL)
when closing your polygons

Make use of snaps when
drawing complex
geometries

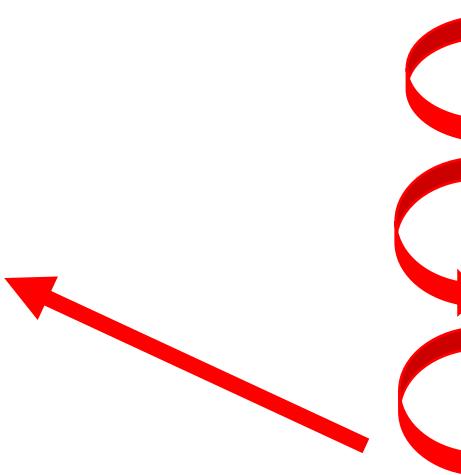
Option 2

Autocad has "forgotten" your polygons...

Try REGEN or REGENMODE

Try Zooming on and off

Zoom as close as you can to
the geometry while
visualising it all on the screen



GAME OVER?

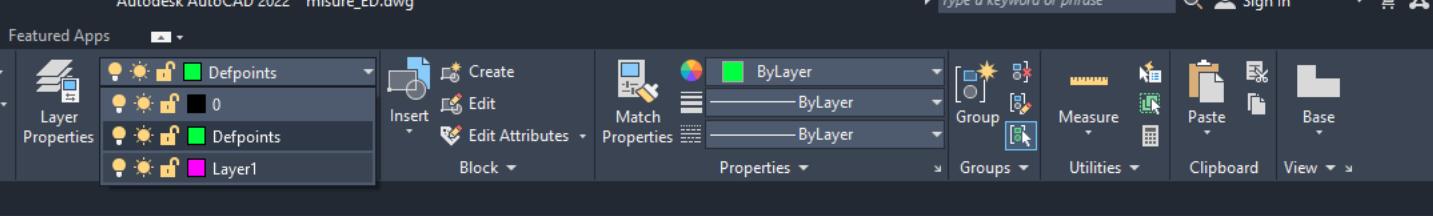
Other useful stuff...

'Autocad is refusing to load my raster!'

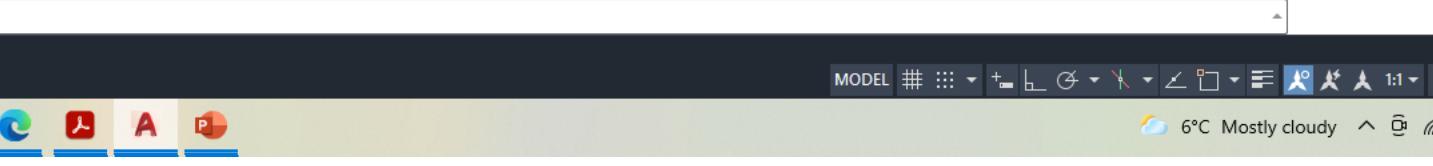


Option 1 (it always works)

Rename the raster file and try again...



“Autocad has messed my drawing up!!!”



Other useful stuff...

“Autocad doesn't load my raster anymore!”



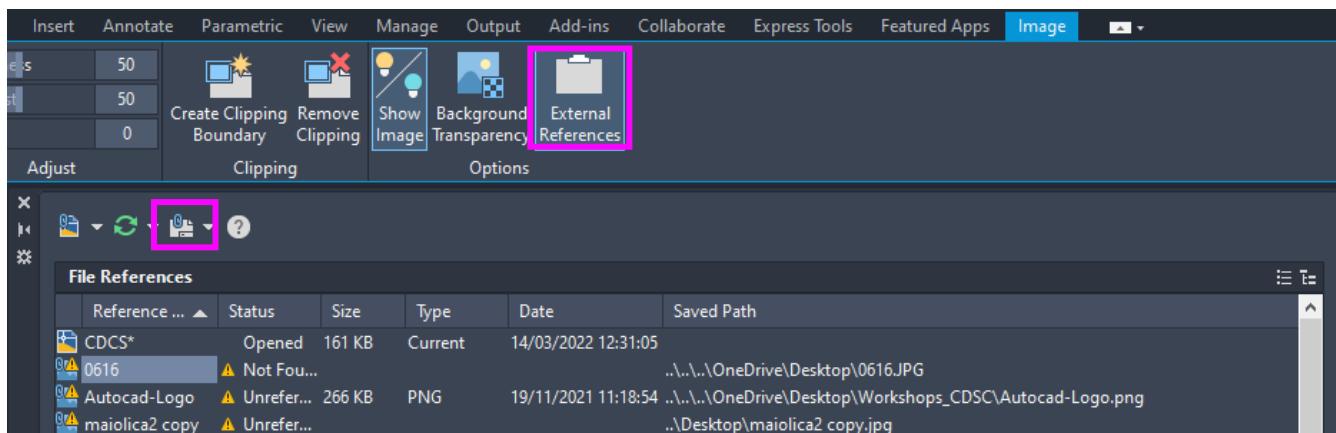
You have moved or deleted the raster file, which file path is no longer valid...

Option 1

Move it back to the original position, then close the software and open it again.

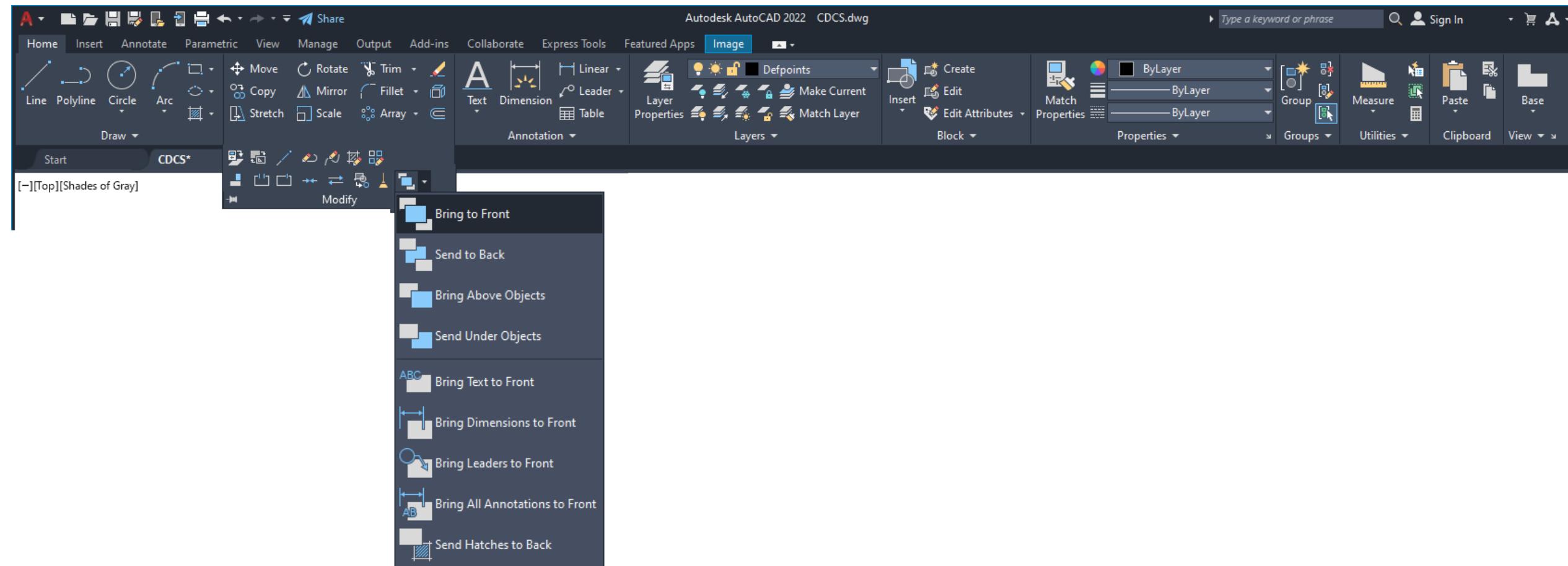
Option 2

Single click on the picture frame > Image options
External references > Change path > Select new path



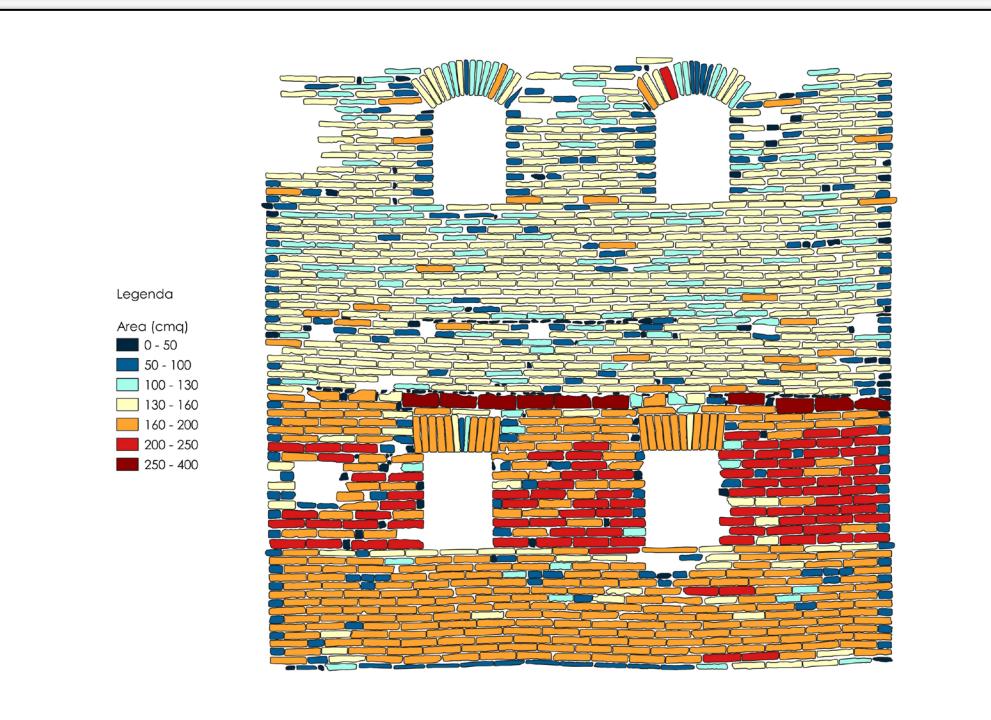
Other useful stuff...

'Autocad has deleted my drawing!!!'



Digital drawing with Autocad (**2D**)
is over!

What's next?



Thank you for the attention...
and good luck with your AutoCAD future!