Chapter 12 Layers, Linetypes, Colors

Introduction to Layers and Layer Dialog Box 12.1

1. **Choose** Format, Layer.

or

2. **Type** LAYER at the command prompt.

Command: LAYER (or LA)

or

3. **Pick** the layers icon from the Layer Control box on the object properties toolbar.



Layer Properties Manager		? ×
<u>3</u>	👟 🗙 🗸 Current layer: 0	
All Used Layers	Stat Name △ 0 Freeze Lock Color Linetype Lineweight Plot Style Plot Description ✓ 0 ✓ ✓ ● white Continuous — Default Color ※ ✓ 0 ✓ ● ● white Continuous — Default Color ※ ✓ Defpoints ✓ ●	
Search for layer		•
All: 2 layers displayed of 2 total layers		
🔲 Invert filter 👘 Indicate layers in	n use	
Apply to layers toolbar	OK Cancel Apply Hel	P

?	Lists layers, with states, colors and linetypes.	
Make	Creates a new layer and makes it current.	
Set	Sets current layer.	
New	Creates new layers .	
ON	Turns on specified layers.	
OFF	Turns off specified layers.	
Color	Assigns color to specified layers.	
Ltype	Assigns linetype to specified layers.	
Freeze	Completely ignores layers during regeneration.	
Thaw	Unfreezes specified layers Ltype.	
Lock	Makes a layer read only preventing entities from being edited but available visual reference and osnap functions.	
Unlock	Places a layer in read write mode and available for edits.	
Plot	Turns a Layer On for Plotting	
No Plot	Turns a Layer Off for Plotting	
LWeight	Controls the line weight for each layer	

TIP:

Layers can be set using the command line prompts for layers. To use this, type –LAYER or -LA at the command prompt

- 1. Type Command: -LAYER or LA
- 2. **Type** One of the following layer options

?/Make/Set/New/ON/OFF/Color/Ltype/Freeze/Thaw:

Layer Shortcuts 12.2

Changing the Layer of an Object

- 1. **Click** Once on the object to change.
- 2. **Select** the desired layer from the Layer Control Box dropdown.

AutoCAD will move the object to the new layer.



Making a Layer Current

- 1. **Click** once on the Make Object's Layer Current icon.
- 2. **Select** object whose layer will become current:

Match Properties

1.	Choose	Modify, Match Properties.
		or
2.	Click	the Match Properties Icon from the Standard toolbar.
		or
3.	Туре	Command : MATCHPROP or MA
4.	Select	the object whose properties you want to copy (1).
5.	Select	the objects to which you want to apply the properties (2).

asic Properties			C OK
Color	ByLayer		
✓ Layer	A-EXTWALLS		Cancel
Linetype	CONTINUOUS		Help
🗸 Linetype Scale	1.0000		
✓ Linewsight	ByLayer		
Thickness	0.0000		
🔻 PlotStyle	ByLayer		
pecial Properties			
Dimension	🔽 Test	P Hatch	
Polyline	Viewport	✓ Table	

Layer Previous 12.3

- 1. **Open** an AutoCAD drawing with layers.
- 2. **Turn** layers on/off.
- 3. **Zoom** or perform any AutoCAD Command.
- 4. **Type** LAYERP at the command prompt.

Command: LAYERP

or

5. Click the Layer Previous icon.



Layer States 12.4

- 1. **Choose** the layer icon.
- 2. Select various layers to be ON,OFF,FROZEN,LOCKED, etc.
- 3. **Choose** the Save State button.
- 4. **Choose** Restore State to restore the layer settings.

Layer Properties Manager		<u>? ×</u>	
<u>3</u>	🌜 🗙 🗸 Current layer: 0		
All Used Layers	Stat Name On Freeze Lock Color Linetype Lineweight Plot Style Plot Description		
Search for layer	•	▶	
All: 13 layers displayed of 13 total layers			
🔲 Invert filter 👘 Indicate layers in	use		
Apply to layers toolbar	OK Cancel Apply He	lp	

tame uskitestural	Space Madel	Description		New
lectrical	Model			Delete
				Import.
				Export
wer sellings to rest	ore -			
🗹 On/Oll		💌 Color		Select All
Frozen / Thew	ed	🖾 Linetype		C1 1/1
🔽 Locked / Unio	sked	🔽 Lineweig	aht —	ClearAll
Plat / No Plat		Plot style	•	
Current VP Frozen / Thawed		T New VP	Frozen / Th	awed
Current VP Fro.	ant found in layer stat	i New VP	Prozen 7 Th	awed
Turn off layers	they recall for the happen where			

Color Command 12.5

1. **Choose** Format, Color.

or

2. **Type** DDCOLOR at the command prompt.

Command: DDCOLOR or COL

or

3. **Choose** Color on the Object Properties toolbar and then select a color from the list or select Other to display the Select Color dialog box.



TIP:

These settings ignore the current layer settings for color.

By Layer

If you enter bylayer, new objects assume the color of the layer upon which they are drawn.

By Block

If you enter byblock, AutoCAD draws new objects in the default color (white or black, depending on your configuration) until they are grouped into a block. When the block is inserted in the drawing, the objects in the block inherit the current setting of the COLOR command.

Linetypes 12.6

Loading and Changing Linetypes

1. **Choose** Format, Linetype...

or

2. **Type** DDLTYPE at the command prompt.

Command: DDLTYPE or LT

the desired linetype to assign.

3. **Choose** Load... to see a list of available linetypes.

Linetype Manager			2)
Linetype filters Show all inetypes	• I	Investiller	Delete
Current Linetype: ByLey	er.		
Linetype	Appearance	Description	
sjuager Byøliock Continuidus Dashed		— — Cantinusus - Dashed	
Details Sierre: Dysciption:	eunits for scaling	<u>Biob al scale factor</u> Carent gbjød sode 150 gen vidfr	1.0000 1.0000
		ок с	encel Help

4. Choose

👍 Load or Reload Linetype	s	? ×
File		
Available Linetypes		
Linetype	Description	-
ACAD_IS002W100	ISO dash	
ACAD_IS003W100	ISO dash space	
ACAD_ISO04W100	ISO long-dash dot	_
ACAD_ISO05W100	ISO long-dash double-dot	
ACAD_ISO06W100	ISO long-dash triple-dot	
ACAD_ISO07W100	ISO dot	
ACAD_ISO08W100	ISO long-dash short-dash	
ACAD_IS009W100	ISO long-dash double-short-dash	_
ACAD_ISO10W100	ISO dash dot	
ACAD_ISO11W100	ISO double-dash dot	
ACAD IS012W100	ISD dash double-dot	- <u>L</u>
		<u> </u>
OK	Cancel Help	

5. Click OK.

AutoCAD 2D Tutorial

Lineweights 12.7

Loading and Changing Lineweights

1. **Choose** Format, Lineweight...

or

2. **Type** LINEWEIGHT at the command prompt.

Command: LINEWEIGHT or LWEIGHT

or

4. **Pick** a lineweight to make current from the Object Properties menu.

Lineweight Settings	?×
Lineweights ByLayer ByBlock Default 0.00 mm 0.05 mm 0.09 mm 0.13 mm	Units for Listing Millimeters (mm) Inches (in) Display Lineweight Default 0.25 mm Adjust Display Scale Min Max
🐨 Current Lineweight: Byl	_ayer
OK	Cancel <u>H</u> elp

TIPS:

- Lineweights can also be assigned to layers.
- The Display Lineweights feature can be turned on/off on the status bar to show or not show lineweights in the drawing, thus making regenerations faster.

SNAP GRID ORTHO POLAR OSNAP OTRACK DYN LWT MODEL

- Lineweights are displayed using a pixel width in proportion to the realworld unit value at which they plot. If you are using a high-resolution monitor, you can adjust the lineweight display scale to better display different lineweight widths.

Object Properties 12.8

1. **Choose** Modify, Properties.

or

2. Click the Properties icon.

or

3. **Type** DDCHPROP or DDMODIFY at the command prompt.

Command: **DDCHPROP** (CH) or **DDMODIFY** (MO)

4. **Pick** Objects whose properties you want to change Pick a window for DDCHPROP, single object for DDMODIFY.

Select objects:(select)

5. **Press** ENTER to accept objects.

Select objects: (press enter)

6. **Choose** One of the following properties to change.

