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GD201-4 This session is filled with new time-saving tips and tricks that can be used to increase your AutoCAD productivity immediately. Do you take advantage of new tools or are you still doing things the old way? Attend this session, and you'll learn how to use some of the best and most productivity-enhancing tools that have been introduced in recent upgrades. Leave this session knowing how to dazzle your coworkers back home!

About the Speaker:

Jeanne is known for keeping her training sessions fast-moving and fun. She is a nationally known speaker and expert in CAD and presents seminars and workshops on CAD productivity for managers and users in both corporations and colleges. She has more than 20 years of experience in production drafting, user support, standards coordination, programming, and training in various CAD applications. Jeanne is an independent consultant offering training and implementation services and is certified in several Autodesk and Bentley products. She has been a popular speaker at AU for several years.

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So many secrets...so little time!

The topics I selected for this presentation were collected from friends, co-workers, other user groups; and of course the newsgroups.

If you have an idea or a great tip to pass along, I invite you to share your ideas with other users. This only works when we ALL share ideas and concepts. Keep the information flowing....and thanks to all those who helped with this collection of ideas.

About this document:



Secret available in AutoCAD 2004



Secret available in AutoCAD 2005



Secret available in AutoCAD 2006



Secret available in AutoCAD 2007



Secret available in AutoCAD 2008

Secret to Expose!

Tip Donated by...









Thanks to everyone who contributed ideas to this session. And remember me if you have a clever way to use ABS or AutoCAD, send me YOUR "secrets". We all learn through sharing!





1 F1 - YOUR Way



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Tired of hitting that F1 – HELP by mistake? Use this procedure to alter the F1 key execution command.

STEP 1: Key in CUI to access the Customize User Interface dialog.

STEP 2: Expand the Customizations in All CUI Files section of the dialog

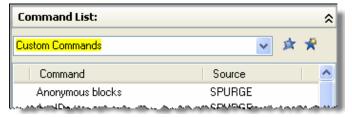
STEP 3: Expand the Commands List section of the dialog

STEP 4: Change All Commands to Custom Commands and pick the NEW butto

STEP 5: Change the name of the new

command to F1 CANCEL.

The command macro is already defined as **^C^C** which will perform a CANCEL command.



STEP 6: Expand Keyboard Shortcuts in the Customizations in All CUI Files section.

STEP 7: Drag-n-Drop the previously made custom command F1 CANCEL on top of the Shortcut

Customizations in All CUI Files

🖃 🦝 Shortcut Keys 🔇

A Hyperiink

🦝 Toggle Coords

All Customization Files

Keys.

STEP 8: Expand the Shortcut Keys to

verify that the **F1 CANCEL** command has been copied.

STEP 9: Select the new F1 CANCEL

command in the Shortcut Keys

section.

STEP 10: Access the **Properties** section of

the dialog and modify the

Access → **Keys** definition to use the **F1** shortcut key.

STEP 11: Pick the Browse button and

select the **F1** key on your keyboard. Pick **OK** to save the

definition.

STEP 12: Pick APPLY and OK to save

your changes.

Try out your new F1 key. No more accidental help.

Properties

You can still access Online Help using the Help pulldown menu only on purpose from now on!





2 Tool Palette Control



You can control which tool palette group is displayed using the following commands. Use this command on a pulldown menu or button for easier access by the users in your organization.

AutoCAD 2006, 2007

*_TOOLPALETTEPATH

Switch between tool palette groups (folders) automatically using the following command options:

^C^C*_TOOLPALETTEPATH; "path"

Note: Be sure to use "/" and not "\" when defining the "path" on the macro.

AutoCAD 2008

There is a new command for those of you using 2008 that allows you to navigate between palette "groups" easily.

_TPNAVIGATE

Use the "group" option to switch between tool palette groups or palettes automatically using the following command options:

Navigate Groups: ^C^C_TPNAVIGATE;G;"name"

Navigate Palettes: ^C^C_TPNAVIGATE; "name"





3 Lost Toolbars



AutoCAD 2007 and Earlier

Use the following key in to find lost toolbars in your interface.

-TOOLBAR

The TOOLBAR command will allow you to "float" the missing toolbar in the middle of your screen; effectively moving it to a visible location.

STEP 1: Key in the command **-TOOLBAR** to run the command without dialogs.

STEP 2: Enter the toolbar name; in this case the **DRAW** toolbar.

STEP 3: Key in **F** to float the toolbar anywhere on your screen.

STEP 4: Key in a new XY pixel position on your screen. 0,0 will float the toolbar in the upper left

corner of your screen.

AutoCAD 2008

Use this new option to locate missing toolbars using the new CUI; although the previously mentioned option still works.

STEP 1: Key in CUI to access

Customize User Interface

STEP 2: Select the CURRENT

workspace

STEP 3: Expand Workspace

Contents (on the right side of

the dialog)

STEP 4: Expand Toolbars and select

the missing toolbar.

STEP 5: Modify the **Orientation** of this

toolbar in the lower pane of the dialog. If you choose "Floating" you must specify the XY pixel location to float

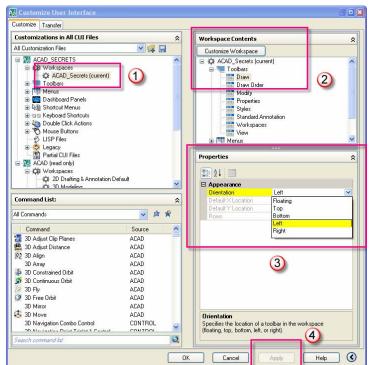
it.

STEP 6: Pick APPLY and OK to save

these changes

STEP 7: Your missing toolbar should

appear as specified.





4 Object Cycle



I am always surprised how many users don't know this one, or have forgotten about it along the way. No matter what version you are using; working with overlapping objects can be frustrating unless you know this little secret.

AutoCAD 2006 and Earlier

Use the *CTRL* key while selecting objects to cycle between overlapping objects. Once you have selected an object you can release the *CTRL* key and just *<Left-Click>* until the object you want is highlighted. Then proceed with your desired command.

AutoCAD 2007-2008

Starting in 2007 the functionality for cycling between objects changed to allow for more "mouse" keyboard shortcuts. Now you can use the **SHIFT+SPACEBAR** to cycle between overlapping objects. Once you have selected the object you can release the **SHIFT** key and just continue to hit the **SPACEBAR** until the object you want is highlighted. Then proceed with your desired command.





5 Improved Selection



There are many commands available to simplify how you can select objects in the drawing file. I will assume everyone knows about QUICK SELECT; so I thought I would discuss a couple of "other" options.

Available in the Express Tools pulldown menu is the FAST SELECT command.

STEP 1: Select Express → Selection Tools → Fast

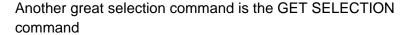
Select

STEP 2: Select an object in your drawing file and all

objects that "touch" your selected object are automatically selected.

automatically selected.

Remember, sometimes it is easier to "de-select" a single object than to select several objects.



STEP 1: Select Express → Selection Tools → Get

Selection

STEP 2: Select an object as the source layer object

STEP 3: Accept the * if you want to include all objects on this layer in the selection set. You can

also specify that you only want lines, blocks, or another object type on the source layer to

be included.

STEP 4: Now pick the AutoCAD command you want to use to manipulate the

selection set; such as MOVE.

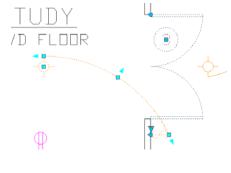
STEP 5: Key in P for PREVIOUS when

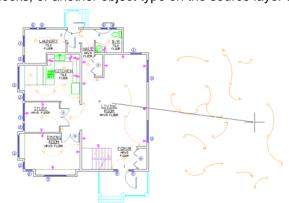
asked to select objects and the previous selection set will be

recalled.

STEP 6: MOVE all objects on the source

layer.







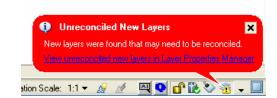


6 Control Tray Notifications



Are you tired of that annoying balloon notification for various system messages; such as plotting, unreconciled layers, and reference file changes? If so, try changing this setting.

There is a system variable that controls whether notifications are displayed in the status bar tray. The variable is TRAYNOTIFY and the available options are:



- 0 Does not display notifications
- 1 Displays notifications

This is a "registry" setting so you only have to set it once for the change to be recognized from that point forward.

Note: You will still be notified with an exclamation point is something that has changed.

7 Cycle Viewports



Ever been stuck in a viewport that erroneously was created inside another viewport? How do you activate a "nested" viewport?

Use the *CTRL+R* to toggle between viewports in paperspace.



Note: You can also **<Double-Click>** on the viewport object in paperspace to activate that viewport

in modelspace using the new MAXIMIZE

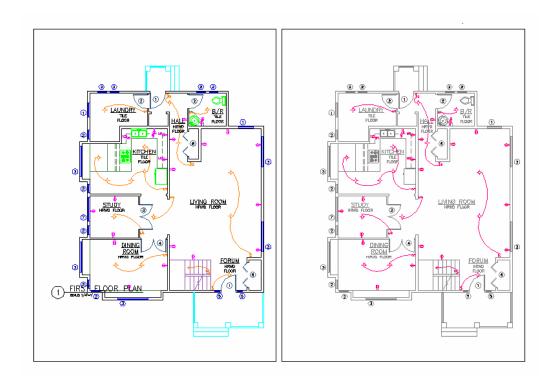
VIEWPORT command.



8 Viewport Symbology



New in 2008 is the ability to define layer symbology (color, linetype, weight, etc) on a per viewport basis similar to layer viewport freeze and thaw.



Use this process to coordinate viewports as shown above.

STEP 1: < Double-Click> in a viewport to activate it and to move the focus of AutoCAD to the

viewport

STEP 2: Open the Layer Manager and define

the colors, weights, and linetypes using the new **VPColor**, **VPLinetype**

and **VPWeight** columns.

You might need to **REGEN** the viewport to see the changes.

Notice the "bluish tint" color added to the layer list to help you identify what layer settings has been overridden on a viewport basis.

V VP Color	VP Linetype	VP Lineweight	VP
white	Continuous	Default	Cole
3	Continuous	Default	Cole
8	Continuous	Default	Cole
8	Continuous	Default	Cole
8	Continuous	Default	Cole
8	Continuous	— Default	Cole
8	Continuous	Default	Cole
8	Continuous	Default	Cole
8	Continuous	Default	Cole
230	Continuous	0.30 mm	Cole
230	Continuous	0.30 mm	Cole
8	Continuous	Default	Cole
8	Continuous	Default	Cole
8	Continuous	Default	Cole
8	Continuous	Default	Cole
🧓 🔳 8	Continuous	Default	Cole





9 True Distance in Layouts



When working in paperspace it is not necessary to activate the viewport and work in modelspace to perform a measure distance command. AutoCAD will automatically return the "real" distance regardless of what space you are in.

So what do you do if you want the "paper" distance? Be sure to snap to "paper" geometry not "model" geometry when identifying the snap points.

10 Pan a Specific Distance



You can pan using a specific distance using the VIEW PAN command.

STEP 1: Select View → Pan → Points

STEP 2: Identify the first point to pan from

STEP 3: Drag the cursor in the direction of the pan and key in the distance you want to pan. Be

sure to use ORTHO or POLAR to control the direction.





11 Mouse Controls



There are several system variables that "tweak" the way your mouse works in the AutoCAD view. Try modifying any of these to get better control over your mouse.

MBUTTONPAN

Control how the pan (press wheel) command works in a view.

- 0 Supports the action defined in the customization (CUI) file
- 1 Supports panning when you hold and drag the button or wheel

ZOOMFACTOR

Controls how fast the wheel zooms in and out. The default value is 60.

- 40 zooms slower per click of the wheel
- 80 zooms faster per click of the wheel

AutoCAD 2008 Only

ZOOMWHEEL

Control how the wheel zooms when rolled forward and backward.

- 0 Moves wheel forward zooms in; moving wheel backward zooms out.
- 1 Move wheel forward zooms out; moving wheel backward zooms in.

Be careful though...this one can play with your mind! ;)



12 Open to Named View

Do you use named views to zero in on specific areas and pre-defined layer states? Then you

might like this next secret. Use the SELECT INITIAL VIEW option found in the OPEN dialog to open a drawing to a specific named view.

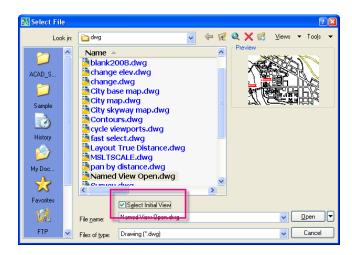
STEP 1: Turn on

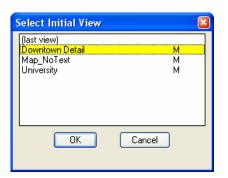
SELECT INITIAL VIEW

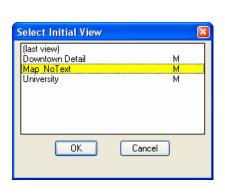
STEP 2: Open the file and you

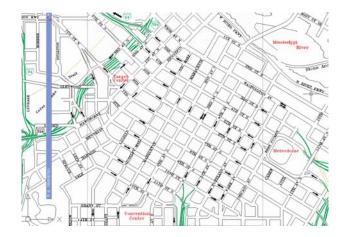
automatically open to the selected named view and its specific layer and area

settings.













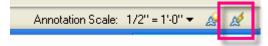
13 Annotative Scaling



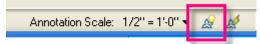
The new annotative scaling available in the 2008 product line is one of the best feature enhancements to hit the user community in a long time. No longer do we have to jump through layer hoops to control the different plot scales annotation text, symbols and dimensions.

Not only do the new annotative objects automatically scale; but they are smart enough to teach themselves along the way.

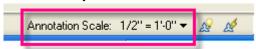
Use the Automatically Add Scales option to add scales dynamically as needed.



Use **Annotation Visibility** to display one or all of the scales defined as needed.



Use the **Annotation Scales** to set the view to a specific scale and adjust annotation automatically.



What more can we ask for?

14 Streamline MTEXT



Do you still use DTEXT more than MTEXT? If you could streamline your MTEXT command would that help you make the transition? Try this out!

Create a custom MTEXT button using the following syntax:

^C^C_MTEXT;\W;0;

Is that better?

If you still want MTEXT to work like DTEXT try modifying this setting:

MTEXTFIXED=1

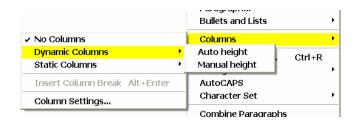
If I call this secret Multi-line DTEXT will you use it now?



Multi-Column MTEXT



New in the 2008 is the addition of multi-column MTEXT. This improves the overall appearance of large amounts of notes needed in the drawing file and the pagination is dynamic.



- GENERAL NOTES:
 1. FOUNDATION VENTILATION EQUAL TO 1 SF. OF NET OPENING FOR EACH 150 S.F. OF UNDER FLOOR AREA. ALL FOUNDATION TO COMPLY TO CURRENT UNIFORM BUILDING STANDARDS.
- 2. VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BUILDING OR STARTING CONSTRUCTION, NOTIFY THE DESIGNER IMMEDIATELY OF ANY DISCREPANCY OR VARIATION
- 3. VERIFY ROUGH OPENINGS AND FRAMING REQUIREMENTS PRIOR TO FRAMING.
- INTERIOR OF HOUSE IS TO BE PAINTED WHITE WITH 3" OAK BASE BOARD (SEE DETAIL) & 4" OAK COVES AT ALL JUNCTIONS BETWEEN WALL & CEILING OR BEAMS & CEILING (SEE DETAIL).
- 5. ALL EXTERIOR WALL ARE TO BE 2"X6" FRAMING, INTERIOR WALLS ARE TO BE 2"X4" FRAMING AND ARE NO LOAD BARRING UNLESS OTHERWISE SPECIFIED
- 6. ALL HEADERS ON FIRST FLOOR ARE TO BE DBL. 2"X10" AND ALL HEADERS ON SECOND FLOOR ARE TO BE DBL. 2"X8".
- 7. ROOFING SYSTEM IS TO BE ENGINEERED TRUSSES, OVERHANG IS TO BE 2' AT

- GENERAL NOTES:
 1. FOUNDATION VENTILATION EQUAL TO 1 SF. OF NET OPENING FOR EACH 150 S.F. OF UNDER FLOOR AREA. ALL FOUNDATION TO COMPLY TO CURRENT UNIFORM BUILDING STANDARDS.
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- VERIFY ROUGH OPENINGS AND FRAMING REQUIREMENTS PRIOR TO FRAMING.
- INTERIOR OF HOUSE IS TO BE PAINTED WHITE WITH 3" OAK BASE BOARD (SEE DETAIL) & 4" OAK COVES AT ALL JUNCTIONS BETWEEN WALL & CEILING OR BEAMS & CEILING (SEE DETAIL).
- ALL EXTERIOR WALL ARE TO BE 2"X6" FRAMING. INTERIOR WALLS ARE TO BE 2"X4" FRAMING AND AR NO LOAD BARRING UNLESS OTHERWISE SPECIFIED.
- 6. ALL HEADERS ON FIRST FLOOR ARE TO BE DBL. 2"X10" AND ALL HEADERS ON SECOND FLOOR ARE TO BE DBL. 2"X8".
- 7. ROOFING SYSTEM IS TO BE ENGINEERED TRUSSES. OVERHANG IS TO BE 2' AT ALL EVES.
- 8. STUCCO SIDING IS TO BE QUIKRETE QUIKWALL FIBERGLASS REINFORCED STUCCO (FRS) #1200 APPLICATION IS TO MEET ALL LOCAL CODE REQUIREMENTS.
- METAL ROOFING IS TO BE MCELROYMETAL, INC. MASTERLOK-90 STRUCTURAL STANDING SEAM ROOF SYSTEM.

<Double-Click> on an existing text object to edit STEP 1:

<Right-Click> in the MTEXT dialog to access the Dynamic Columns command STEP 2:

Select Auto Height STEP 3:

Pick **OK** to save the changes. STEP 4:

Dynamically modify the column width using the new grip provided. STEP 5:





16 Multi-Leaders



New in 2008 are the new Multi-Leader commands that automatically provide tools and functionality for creating multiple leaders. Much better than what we had to do in prior versions.

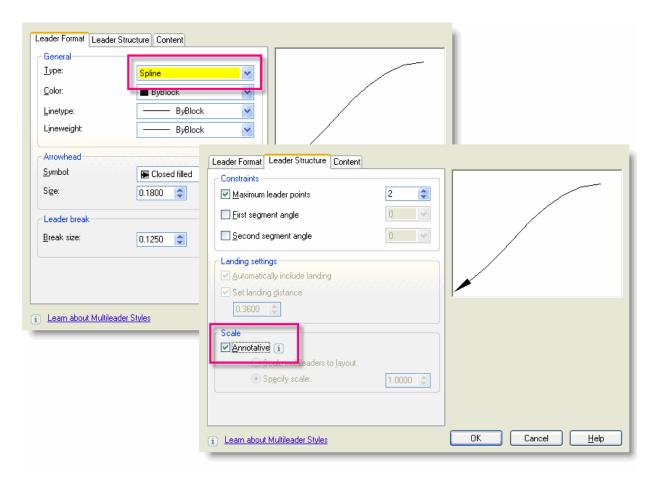
Open the Multi-Leader toolbar to try out these new tools.



First, you need to define a Multi-Leader style.

STEP 1: Select the Multi-Leader Style button

STEP 2: Define a **NOTE** leader style using the following settings





Use the ADD LEADER command to add additional leaders to the note. STEP 3:

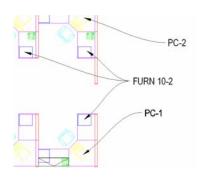
Use the **REMOVE LEADER** command to remove leaders from a leader. STEP 4:

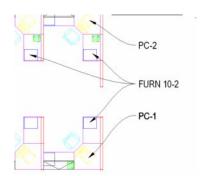




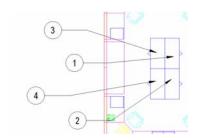
Use **ALIGN LEADERS** to align existing leaders for improved appearance. STEP 5:

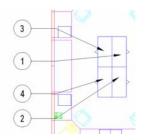




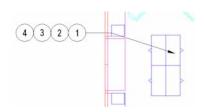


You can use MTEXT or blocks in your new leaders. STEP 6:





Use **COLLECT LEADERS** to join all similar leaders together. STEP 7:





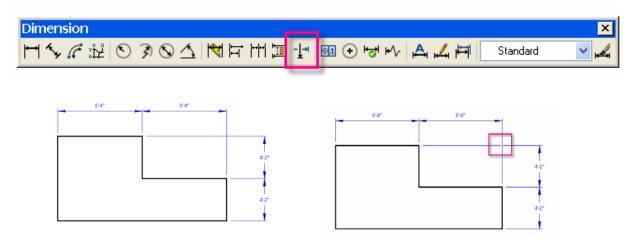


17 Dimension Priority



Using 2008 you can now define extension line priorities for those "overlapping" extension lines without exploding the dimension; or using wipeouts.

Use the new DIMENSION BREAK command to select the extension line you wish to "break" at the overlapping location. Don't worry, it doesn't really break the dimension; just fakes it out!



- STEP 1: Open the **DIMENSION** toolbar and select the **DIMENSION BREAK** command.
- STEP 2: Select the extension line you want to "break"



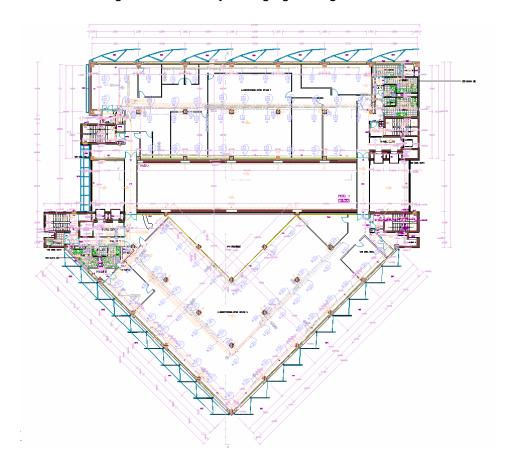
18 Layer Lock Fading



Using 2008 provides you with additional display controls over locked layers. Layer Fading of the locked layers improves the visual representation of layers you cannot modify.

LAYLOCKFADECTL

- 0 Locked layers are not dimmed.
- >0 When the value is positive, controls the percent dimming up to 90 percent.
- <0 When the value is negative, locked layers are not dimmed, but the value is saved for switching to that value by changing the sign.</p>



The above display has locked layers with 70 percent fading.





19 Print Layer List



There are two primary options for printing a layer list from within AutoCAD.

The first option has been available for a while now. You must access the LAYER command from the command line not the Layer Manager dialog.

STEP 1: Key in **-LAYER** to run the command without a dialog.

STEP 2: Key in ? to query all layers in the file.

STEP 3: Key in * to list out all layers in the command line.

STEP 4: Highlight the layer list from within the command line window and copy them to the clipboard using *CTRL+C*.

Layer name	State	Color	Linetype	Lineweight
	 on	 -Р 7 (white)	"Continuous"	Default
"1 <i>F</i> "	on	-P 15 `	"Continuous"	Default
"1FIN"	on	-P 15	"Continuous"	<i>Default</i>
"2 <i>F</i> "	on	-P 7 (white)	"Continuous"	<i>Default</i>
"2FIN"	on	-P 7 (white)	"Continuous"	Default
"Border"	on	-P 5 (blue)	"Continuous"	Default
"CAI"	on	-P 52	"Continuous"	<i>Default</i>
"CAIX"		-P 52	"Continuous"	
"DEFPOINT5"	off	7 (white)	"Continuous"	
Dimensions (COTA	5)" on	-P 212	"501id"	Default
Dimensions for s	tairway" on	-P 212	"Cont	inuous" Defaul
"Doors"	on	-P 142	"Continuous"	<i>Default</i>
"Equipment"	on	-P 92	"Default" (Default
"Equipment" "ESTR"	on	-P 92	"Continuous"	<i>Default</i>
"FAC"	on	-P 142	"Continuous"	Default
"FACH"	on	-P 142	"Continuous"	
"Hatch"	on	-P 15	"Continuous"	<i>Default</i>
"Interior Walls"	on	-P 7 (white)	"Continuous"	0.300 mm.
"Partitions"	on	-P 7 (white)	"Continuous"	0.300 mm.
"PAVM"	on	8	"Continuous"	Default
"Pillars"	on	-P 30	"Continuous"	Default
"Sections Corte"	on	_P 9	"501id" t	Default
"Text O"	on	-P 212	"Default" I	Default
"Title Block"		-P 7 (white)	"Continuous"	Default
"VAO "	on	-P 132		Default
"Viewports"	on	7 (white)		Default
"xrefs"	on	-P 7 (white)	"Continuous"	Default



The second option was a "secret" I found out from a participant at AU last year.

Try this out...pretty neat, eh?

STEP 1: Open the Layer Manager dialog

STEP 2: < Right-Click > and select all layers in the dialog

STEP 3: Issue a *CTRL+C* to copy the layer list to the windows clipboard. It doesn't appear to do

anything...but it does copy the information.

STEP 4: Open a text file, or better yet open an Excel spreadsheet and paste the information.

	Α	В	С	D	E	F	G	Н		J	No.
1	Name	On	Freeze	Lock	Color	Linetype	Lineweight	Plot Style	Plot	New VP Freeze	Desc
2	0	TRUE	FALSE	FALSE	white	Continuous	ByLineWeightDefault	Normal	TRUE	FALSE	
3	1F	TRUE	FALSE	FALSE	15	Continuous	ByLineWeightDefault	PLAN 1F	TRUE	FALSE	1
4	1FIN	TRUE	FALSE	FALSE	15	Continuous	ByLineWeightDefault	PLAN_1FIN	TRUE	FALSE	
5	2F	TRUE	FALSE	FALSE	white	Continuous	ByLineWeightDefault	PLAN_2F	TRUE	FALSE	
6	2FIN	TRUE	FALSE	FALSE	white	Continuous	ByLineWeightDefault	PLAN_2FIN	TRUE	FALSE	- 3
7	Border	TRUE	FALSE	FALSE	blue	Continuous	ByLineWeightDefault	LAYOUT Border	TRUE	FALSE	
8	CAI	TRUE	FALSE	FALSE	52	Continuous	ByLineWeightDefault	PLAN_CAI	TRUE	FALSE	- 2
9	CAIX	TRUE	FALSE	FALSE	52	Continuous	ByLineWeightDefault	PLAN_CAIX	TRUE	FALSE	-
10	DEFPOINTS	FALSE	FALSE	FALSE	white	Continuous	ByLineWeightDefault	Normal	FALSE	FALSE]
11	Dimensions (COTAS)	TRUE	FALSE	FALSE	212	Solid	ByLineWeightDefault	ARCH_Dimensions (COTAS)	TRUE	FALSE	3
12	Dimensions for stairway	TRUE	FALSE	FALSE	212	Continuous	ByLineWeightDefault	ARCH_Dimensions for stairway	TRUE	FALSE	- 4
13	Doors	TRUE	FALSE	FALSE	142	Continuous	ByLineWeightDefault	PLAN_Doors	TRUE	FALSE	
14	Equipment	TRUE	FALSE	FALSE	92	Default	ByLineWeightDefault	PLAN_Equipment	TRUE	FALSE	- 3
15	ESTR	TRUE	FALSE	FALSE	92	Continuous	ByLineWeightDefault	PLAN_ESTR	TRUE	FALSE	- 3
16	FAC	TRUE	FALSE	FALSE	142	Continuous	ByLineWeightDefault	PLAN_FAC	TRUE	FALSE	1
17	FACH	TRUE	FALSE	FALSE	142	Continuous	ByLineWeightDefault	PLAN_FACH	TRUE	FALSE	- 5
18	Hatch	TRUE	FALSE	FALSE	15	Continuous	ByLineWeightDefault	PLAN_Hatch	TRUE	FALSE	
19	Interior Walls	TRUE	FALSE	FALSE	white	Continuous	LineWeight030	PLAN_Interior Walls	TRUE	FALSE	}
	Partitions	TRUE		FALSE			LineWeight030	PLAN_Partitions	TRUE	FALSE	
	PAVM		FALSE				ByLineWeightDefault			FALSE	3
22	Pillars	TRUE	FALSE	FALSE	30	Continuous	ByLineWeightDefault	PLAN_Pillars	TRUE	FALSE	

What you didn't know that was possible? Don't feel bad...neither did I...after all...it's a secret!



On-the-Fly Block Basepoints

Autodesk

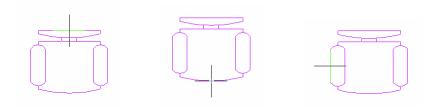


You can modify the block insertion base point using the BASEPOINT option during insertion.

STEP 1: Run the **INSERT** command.

STEP 2: Key in **B** to define a new **BASEPOINT** on the block.

STEP 3: Snap to the new basepoint and place the block.



Cycle Basepoints

Lynn Allen



You can provide alternate block insertion points for use with the INSERT command using point parameter objects in a dynamic block definition.

Select the block you want to have alternate insertion points STEP 1:

< Right-Click > and select the BLOCK EDITOR STEP 2:

command

STEP 3: Place **POINT** parameter at the alternate insertion

point locations.

For once, you can ignore those "exclamation points" STEP 4:

that normally indicate you haven't completed the

parameter definition.,

Close the Block Editor and SAVE the changes to STEP 5:

the block.

Insert the block again and use the CTRL key to toggle between the new "alternate" STEP 6:

insertion points.















22 Quick Fillet



Want to use the FILLET command quicker than before? Did you know that you can use a crossing to select objects simultaneously?

STEP 1: Select the FILLET command

STEP 2: When asked to select objects key in **C** for **CROSSING**

STEP 3: Use a crossing window to select the objects.

23 Hatch Defaults



Do you always have to change the default hatch pattern because ANSI31 is not the most common hatch for your work? Me too! I would prefer to have SOLID my default hatch.

Here is how you can modify your "default" hatch pattern for future hatching commands.

Use the system variable HPNAME and set it to the pattern of your choice

HPNAME = SOLID

Sorry, but this setting isn't saved anywhere so when you close AutoCAD it reverts back to ANSI31.

So how can you save this change permanently? Try using the ACADDOC.LSP file. You can create and place the ACADDOC.LSP in any support path directory and it will be loaded automatically each time a drawing is accessed.

Use the file ACADDOC.LSP to save these "favorite settings" every time you run AutoCAD.

(setvar "HPNAME" "SOLID")

Note: Use the . character to reset the pattern back to the default hatch.





24 Multiple - any command



Now that the COPY command is automatically multiple; do you wish for other "multiple" commands? What about the LINE command; or the FILLET command?

The only problem with the MULTIPLE command is that you have to hit ESC to stop it; and it won't work with commands that use a dialog box.

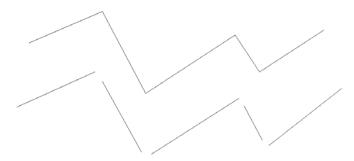
Multiple LINE

STEP 1: Key in MULTIPLE

STEP 2: Key in LINE for the command to repeat

STEP 3: Draw several lines without stopping the command.

STEP 4: Issue an **ESC** to end the line command.



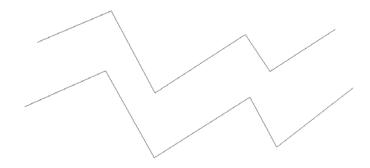
Multiple FILLET

STEP 1: Key in MULTIPLE

STEP 2: Key in FILLET for the command to repeat

STEP 3: Clean up several line intersections using the multiple fillet

STEP 4: Issue an **ESC** to end the fillet command.





25 Quick Explore

Todd Shackelford



I have always been an advocate for "AutoCAD for the Lazy User"; after all who has time to fiddle with commands theses days right? Here is a "secret" I love; hope you do to.

This command will allow you to open automatically open Windows Explorer to the project folder of the currently open drawing file. No more navigating between project folders in Windows and AutoCAD. Hurray!

Place this command on a button or pulldown menu and try it out.

(command "start" (strcat "explorer " (getvar "dwgprefix")))

STEP 1: Open the CUI dialog

STEP 2: Create a new command using the syntax listed above

STEP 3: Create a new toolbar and add the new command to the toolbar.

STEP 4: Save your CUI changes and try out the new command.

So what does all this mean?

(command "start" tells AutoCAD to shell out and start another program.

(strcat "explorer " tells the operating system to start Windows Explorer

(getvar "dwgprefix"))) tells explorer to browse to the current drawings prefix, which happens to be the folder it is located in.

Thanks Todd!





26 No More LTSCALE?



Tired of setting LTSCALE yet? Me too; especially when moving between modelspace and paperspace right? Here is an enhancement in 2008 that I never thought we would see....at last....no more LTSCALE "switching".

A new system variable MSLTSCALE scales linetypes in modelspace using the new annotative scale settings.

MSLTSCALE

- 0 Linetypes displayed on the Model tab are not scaled by the annotation scale
- 1 Linetypes displayed on the Model tab are scaled by the annotation scale

Using this new variable you can set your LTSCALE to your company standard; usually .5 or .375. After that, MSLTSCALE will manage the line scales automatically and YOU NEVER HAVE TO SET IT AGAIN!

27 Lengthen



The LENGTHEN command is a great command that somehow has gotten lost in the upgrade shuffle and has become "hidden" for many users.

I often use the LENGTHEN command to list out the length of an object with messing with a MEASURE command or even the old LIST command.

LENGTHEN can be found at **Modify** → **Lengthen** or as a key in at the command line.

STEP 1: Run the LENGTHEN command and select an object to display its length.

Use the TOTAL option to modify an existing object to a desired length without having to measure and stretch it. LENGTHEN will shorten or lengthen as needed.

Note: You can also use the Length setting in the Properties dialog



28 PEDITACCEPT



Use the system variable PEDITACCEPT to simplify your polyline editing. After all, have you ever answered NO to the PEDIT question stating that the object you selected is not a polyline – would you like to convert it to one? Me neither...what a silly question! To NEVER see this question again change this system variable.

PEDITACCEPT

- 0 the prompt is displayed
- 1 the prompt is suppressed

29 MPEDIT Cleanup



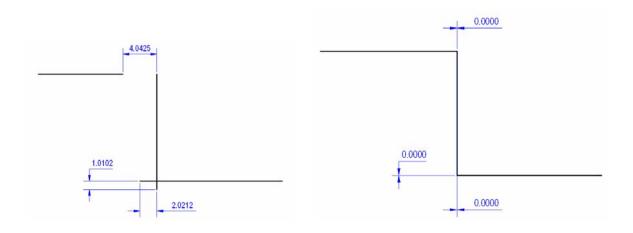
Use the multiple PEDIT option or the MPEDIT command to cleanup some of that "messy" linework.

STEP 1: Key in MPEDIT

STEP 2: Select the linework to cleanup

STEP 3: Key in J to JOIN linework after cleanup

STEP 4: Enter and appropriate "fuzz factor" to clean up gaps and overlaps as needed





30 SOLVIEW



Use the SOLVIEW command to create orthogonal views of a 3D solid in paperspace. This command also creates the layers needed for the following command SOLDRAW which will automatically draw the flat orthogonal views of the 3D solid.

STEP 1:	Select the	layout for	orthogonal	views
---------	------------	------------	------------	-------

STEP 2: Key in the SOLVIEW command

STEP 3: Key in **U** for the **UCS** option

STEP 4: Key in W for the WORLD view of the 3D

solid

STEP 5: Select the location for the center of the TOP

view

STEP 6: Press **ENTER** when viewport is in

correct location

STEP 7: Pick two points to define the viewport

"extents" for the TOP view.

STEP 8: Key in O for the ORTHOGONAL option

to generate the **FRONT** view from the

TOP view.

Snap to the bottom midpoint of the

TOP viewport.

STEP 9: Select the location for the center of the

FRONT view

STEP 10: Press ENTER when viewport is in

correct location

STEP 11: Pick two points to define the viewport

"extents" for the FRONT view.

STEP 12: Key in O for the ORTHOGONAL option to generate the

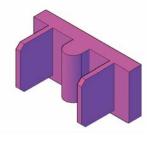
SIDE view from the FRONT view.

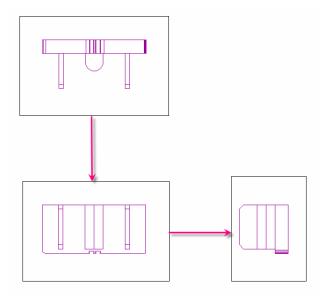
Snap to the right midpoint of the FRONT view.

STEP 13: Select the location for the center of the SIDE view

STEP 14: Press ENTER when viewport is in correct location

STEP 15: Pick two points to define the viewport "extents" for the SIDE view.





Note: Make sure that the template file has the HIDDEN linetype embedded so that SOLVIEW can create

the layers with

associated linetypes

correctly.



31 SOLDRAW

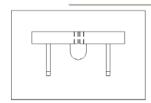


Use the SOLDRAW command to generate the 2D linework views of the 3D solid.

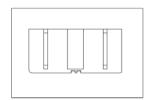
STEP 1: Key in the SOLDRAW command

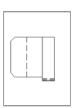
STEP 2: Select the viewports created using

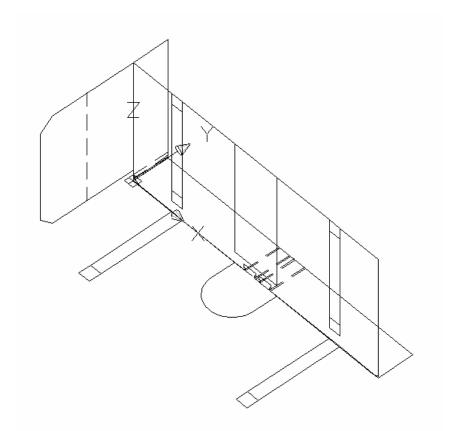
the SOLVIEW command.



Access modelspace and note that the flat linework was drawn on the appropriate layers.









32 Generate 3D Solid from 2D Linework

You can also generate a 3D solid from the existing flat linework .

STEP 1: Generate flat polylines that define the "shape" for TOP, FRONT and SIDE views of the

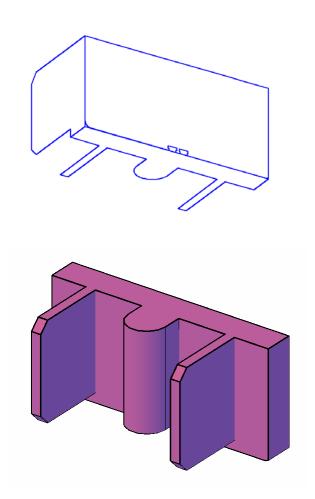
3D solid.

STEP 2: Use the EXTRUDE command to extrude the flat polylines through all other parts as

needed.

STEP 3: Use the **INTERESECT** command to keep only the intersecting portion of the 3 extrusions

created.







33 Reference XCLIP



You can use the new XCLIP command to CLIP or MASK a portion of the reference file

CLIP

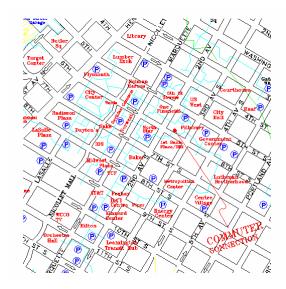
STEP 1: Select the reference file to clip

STEP 2: < Right-Click > and select the

XREF CLIP command

STEP 3: Key in R for the RECTANGULAR

clipping option



MASK

STEP 1: Select the reference file to mask

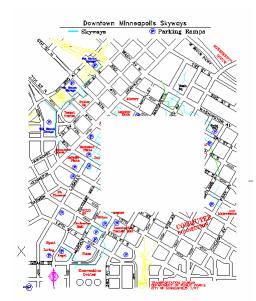
STEP 2: < Right-Click> and select the XREF

CLIP command

STEP 3: Key in I for INVERT CLIP option

STEP 4: Key in R for the RECTANGULAR

clipping option



Note: You cannot do both a CLIP and a

MASK on the same reference file.

Maybe this should be a wish list item eh?



34 Quick Detach



Once I had these shortcuts to simplify my reference file manipulations I wanted to have a quick XREF DETACH option. However, for some reason there is not an XREF DETACH command in 2008. A co-worker pointed me to this lisp routine that allows me to detach a reference file by selection.

Great! Problem fixed...I made a custom command and placed it on the appropriate <**Right-Click>** menu.

STEP 1: Start the CUI command

STEP 2: Create a custom command XREF DETACH

STEP 3: Assign the following macro to the new XREF DETACH command.

^C^C_xrdet;

STEP 4: Expand the Shortcut menus → Xref Object Menu

STEP 5: Drag-n-Drop the command XREF DETACH onto the Xref Object Menu

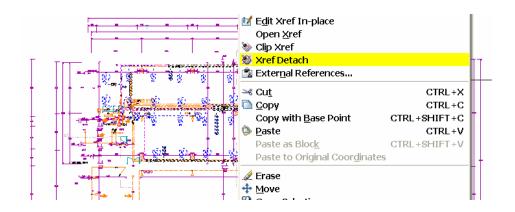
Note: Xref OBJECT Menu applies to a single selected xref. Xref OBJECTS Menu applies to multiple selected xrefs.

AutoLoad the XRDET Lisp routine

STEP 1: Start the CUI command

STEP 2: Expand the LISP FILES section

STEP 3: < Right-Click > and select the XRDET.LSP file





35 Bind YOUR Way



Use the system variable BINDTYPE to specify your preferred method for binding references files. If you are tired of getting those 0\$0 layers; switch your preference to INSERT and the problem goes away.

BINDTYPE

- 0 Traditional binding behavior (layer "xref1|one" becomes "xref\$0\$one")
- 1 Insert-like behavior (layer "xref1|one" becomes "one")

Places You Need to Know

Mike Massey www.knowingwhatyoudontknow.blogspot.com

Richard Binning "Beside the Cursor" <u>www.integr-8.com/besidethecursor</u>

Erhan Toker <u>www.dailyautocad.com</u>

Todd Shackelford "The Lazy Drafter" <u>lazydrafter.blogspot.com</u>

AUGI "Autodesk User Group International" www.augi.com



That's probably more than I have time for....but hopefully not more that you wanted to know!

Thank you for your time

Hope you enjoyed the session!

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