

# Dicas da Rosa AUTOCAD 2022

Rosa Katori

06/2021



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Press ESC or ENTER to exit, or right-click to display shortcut menu.

Command: <Grid off>

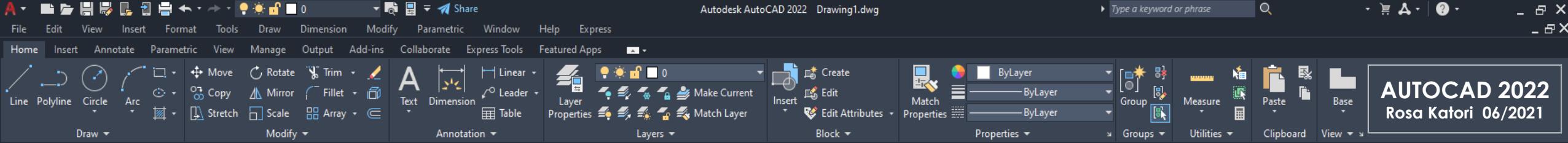
Type a command

Model Layout1 Layout2

1464.9280, 12.1431, 0.0000

MODEL





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Olá

O material apresenta algumas dicas para AutoCAD.

"Dicas" foi criado como um lembrete para os meus alunos das informações apresentadas nos cursos.

Compartilho o material com a intenção de tentar aliviar as dores das dúvidas dos usuários do AutoCAD.

...espero que eu consiga!

Rosa Katori



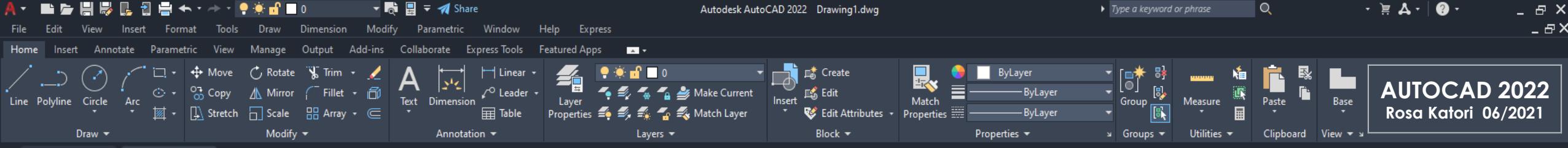
Press ESC or ENTER to exit, or right-click to display shortcut menu.

Command: <Grid off>

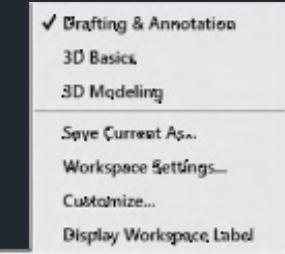
Type a command

Model Layout1 Layout2

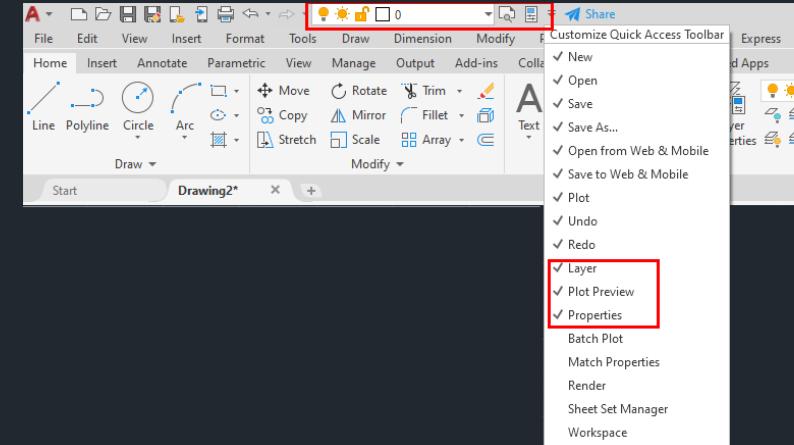
1464.9280, 12.1431, 0.0000 MODEL # : + L G T E F 1:1 Decimal



- Escolha o Workspace:  
Drafting & Annotation = ambiente 2D  
3D Basics e 3D Modeling = ambiente 3D



- Acrescente ferramentas na barra Quick Access:  
Exemplo: Plot Preview,Properties e Layers.



Press ESC or ENTER to exit, or right-click to display shortcut menu.

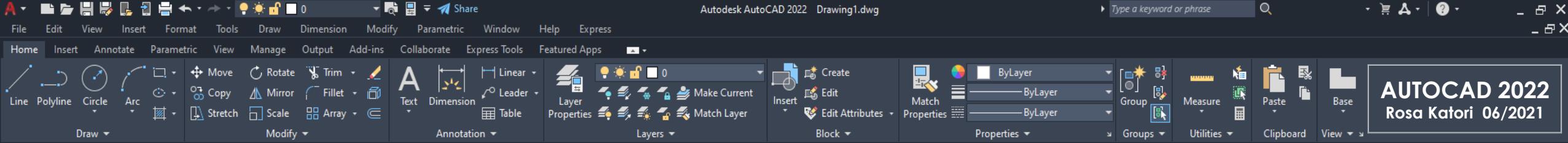
Command: <Grid off>

Type a command

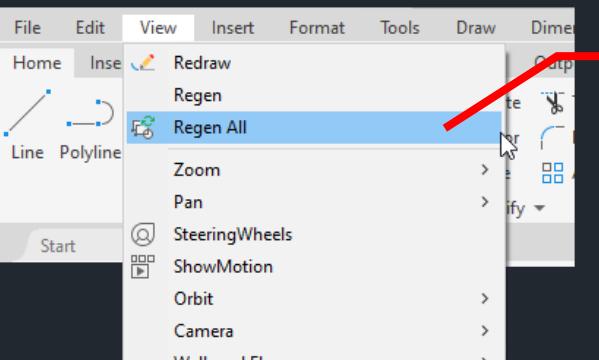
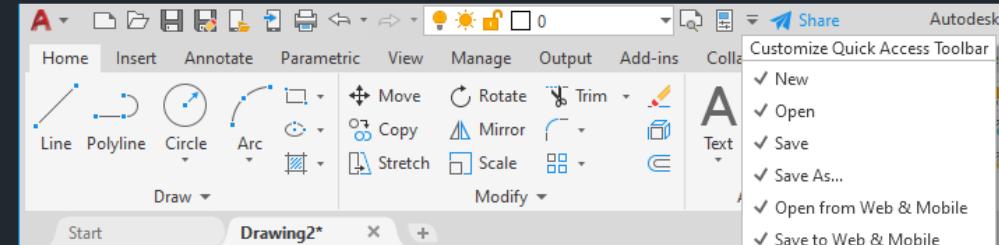
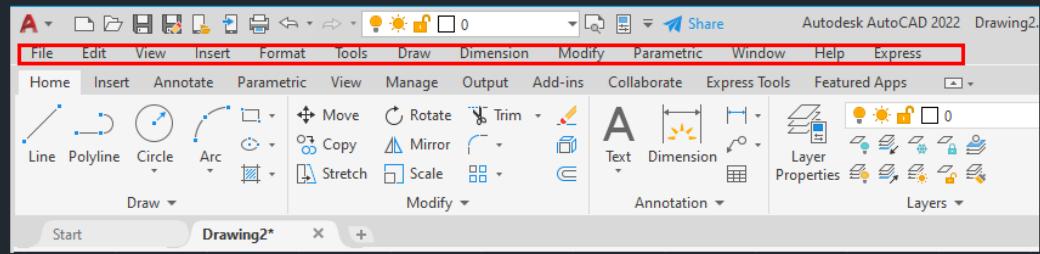
Model Layout1 Layout2 +

1464.9280, 12.1431, 0.0000 MODEL #

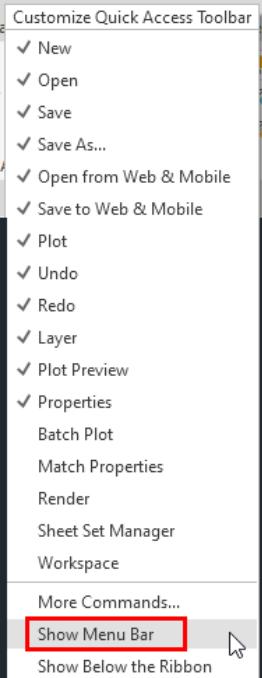
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- Ative a barra de menu para facilitar o acesso de alguns comandos



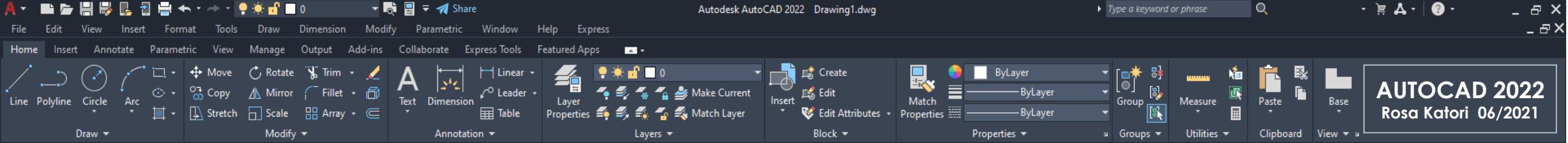
Acesso ao comando Regen All através da barra de menu.



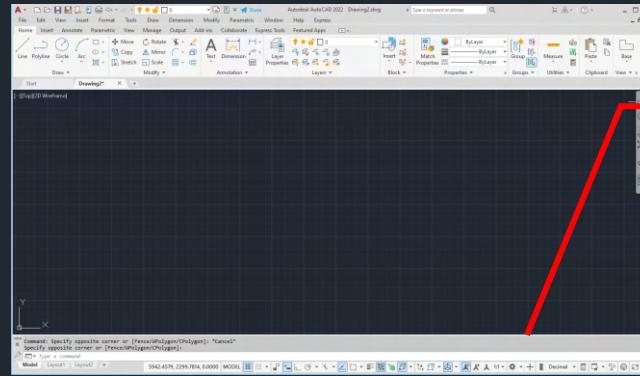
Press ESC or ENTER to exit, or right-click to display shortcut menu

Command: <Grid off>

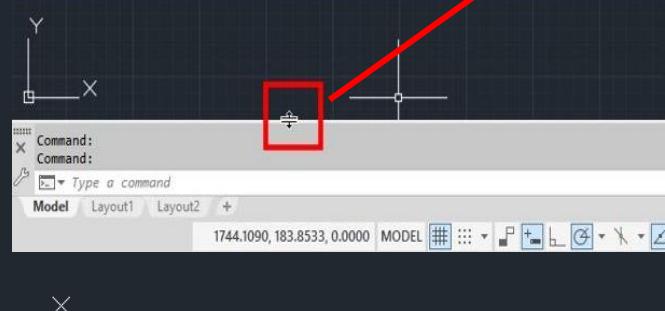
 **Type a command**



- Posicione e configure a linha de comando:



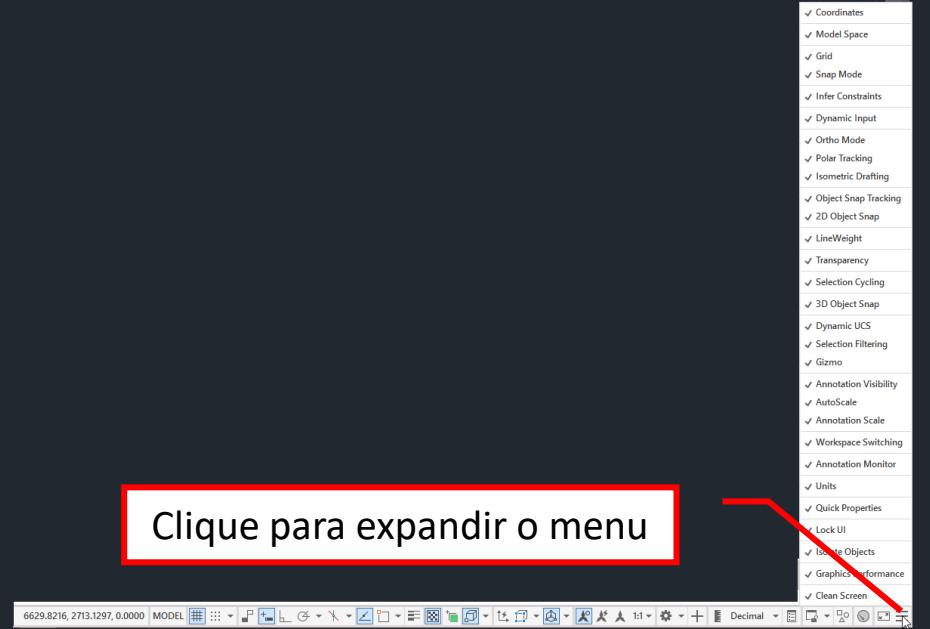
Linha de comando posicionada na parte inferior da tela

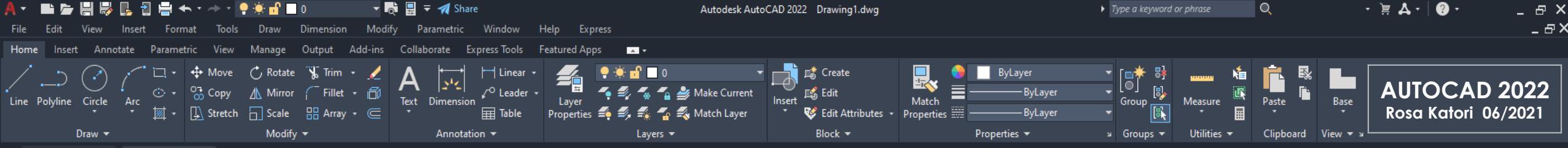


Ajuste a quantidade de linhas visíveis. Por padrão, duas a três linhas visíveis acima da linha de comando são suficientes para apresentar as informações necessárias.

Posicione o cursor do mouse sobre a bordada linha de comando e arraste para cima. Observe o ícone do cursor.

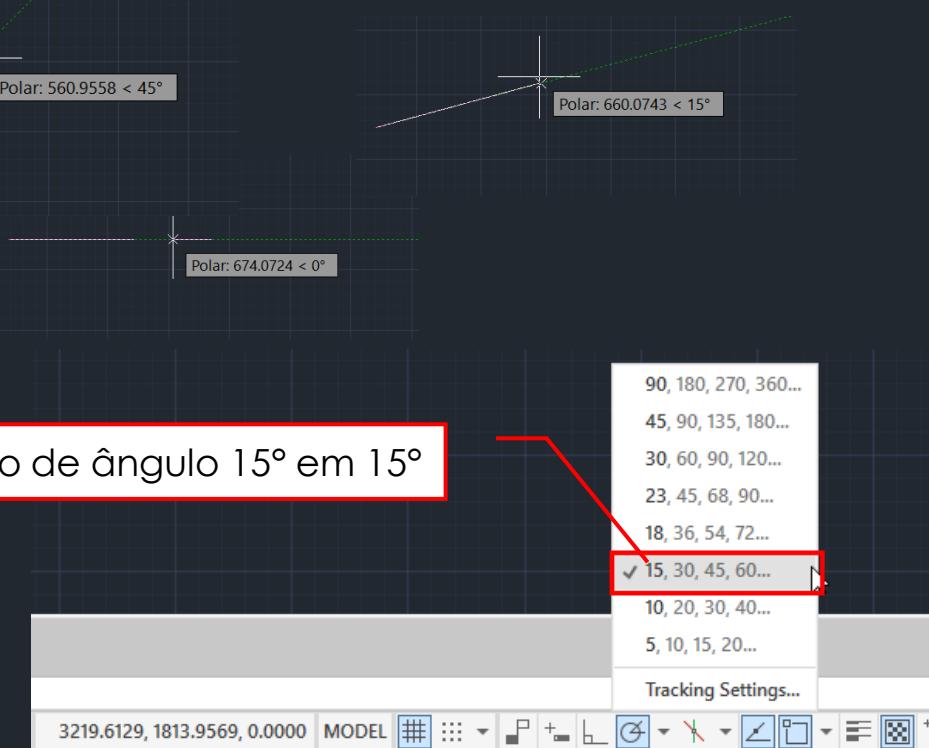
- Configure a barra de Status:  
As opções Dynamic UCS, Selection Filtering, Gizmo são indicadas para o ambiente 3D.





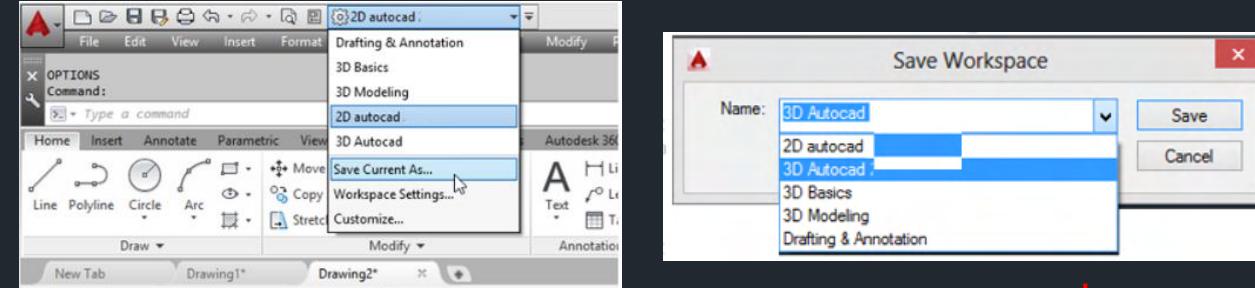
[–][Top][2D Wireframe]

- Determine o ângulo de incremento em Polar Tracking



Intervalo de ângulo 15° em 15°

- Salve o Workspace:  
Após “arrumar” a tela do AutoCAD, salve o workspace .



Se você desconfigurou a tela do AutoCAD:  
Reative o Workspace Drafting & Annotation:  
Ative outro workspace, exemplo: 3D Modeling e  
depois ative novamente Drafting & Annotation.

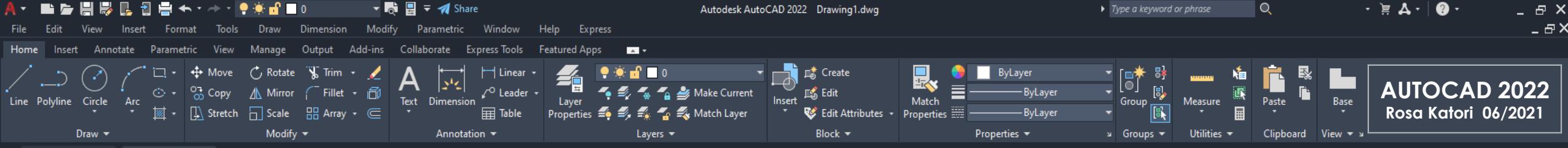
Press ESC or ENTER to exit, or right-click to display shortcut menu.

Command: <Grid off>

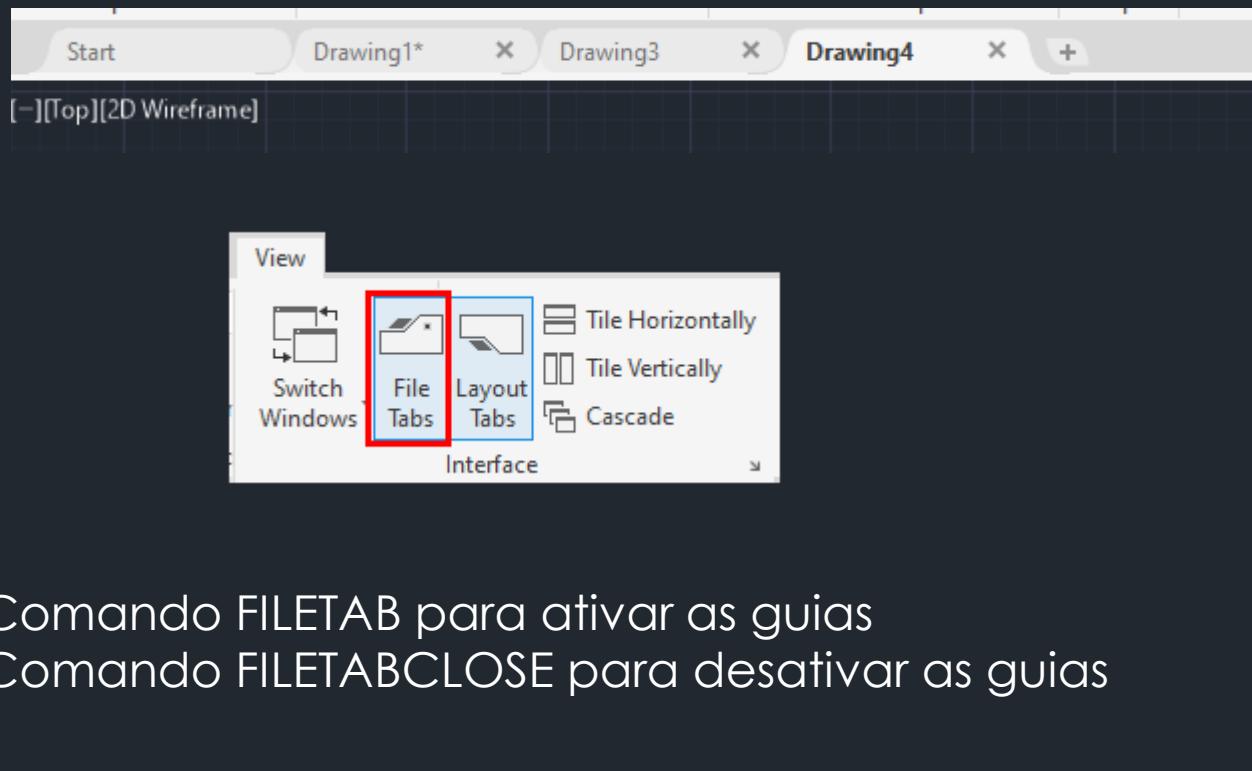
Type a command

Model Layout1 Layout2 +

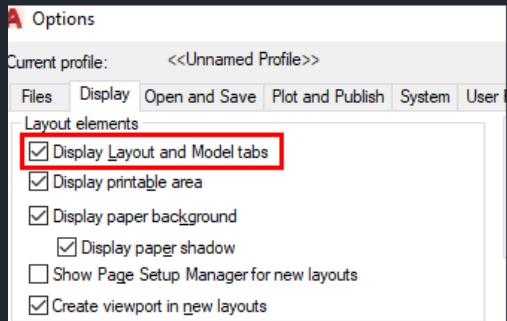
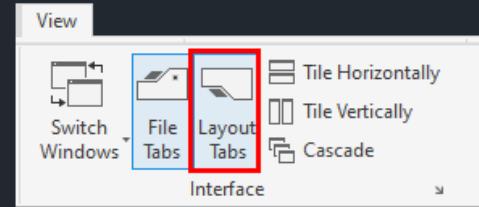
1464.9280, 12.1431, 0.0000 MODEL # : P + L G T E F C D 1:1 Decimal

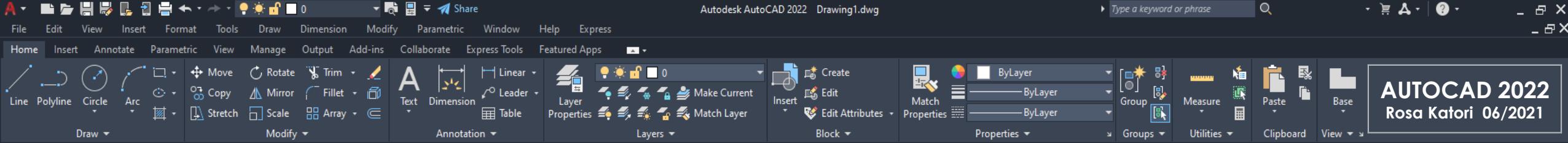


- Controlando as guias do arquivo na parte superior da área de desenho
- Ativando as abas Model e Layout



Comando FILETAB para ativar as guias  
Comando FILETABCLOSE para desativar as guias





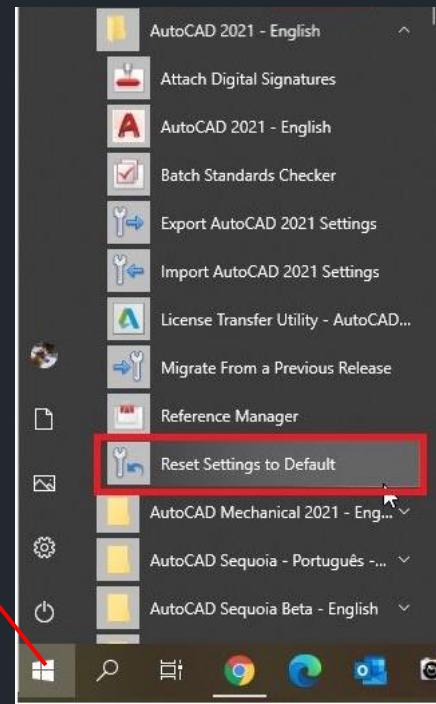
- A ferramenta Reset Settings to Default restaura a configuração padrão do AutoCAD

- Para transferir a sua configuração do AutoCAD para outro computador em um arquivo no formato ZIP.

Menu Iniciar > Todos os Programas > Autodesk > AutoCAD  
2022 >  
Export AutoCAD 2022 Settings  
Import AutoCAD 2022 Settings  
Migrate Form a Previous Release Settings

- Arquivos que são incluídos no pacote
- Linetypes (.LIN)*
- Hatch patterns (.PAT)*
- Command aliases (.PGP)*
- Tool palettes (.ATC)*
- Customized User Interface (.CUIx)*
- Profile (.ARG)*
- Lisp routines (.LSP)*
- System variable settings (Express Tools > SYSVDLG. Salvo como .SVF)*

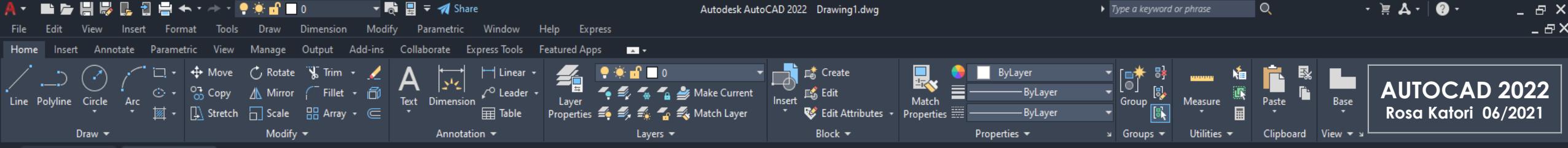
Acesse o menu  
Iniciar e procure a  
pasta AutoCAD



Press ESC or ENTER to exit, or right-click to display shortcut menu

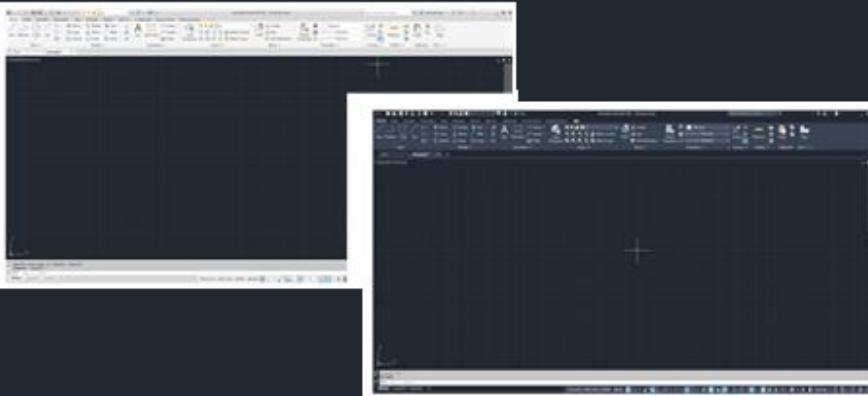
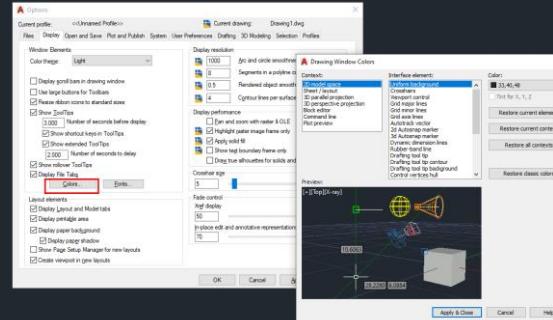
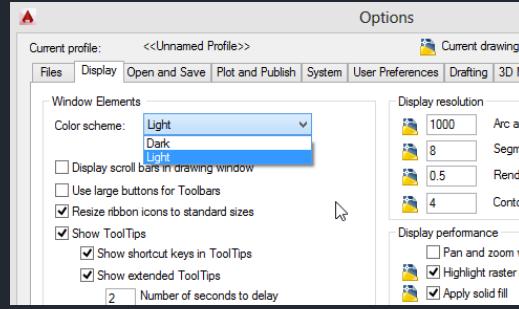
Command: <Grid off>

 Type a command

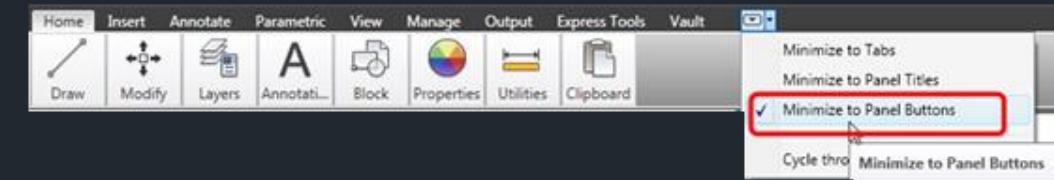
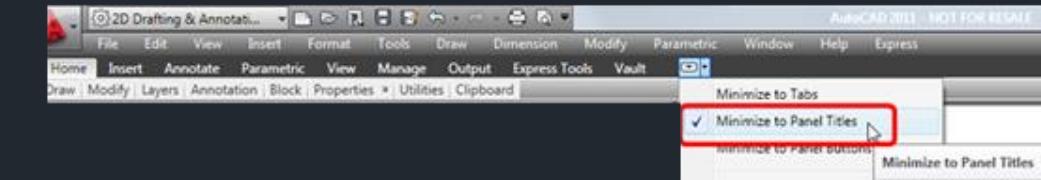
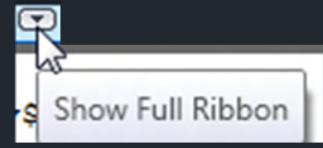


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- Alterando a cor da interface, ribbons, etc.



- Controlando a apresentação dos Ribbons



Press ESC or ENTER to exit, or right-click to display shortcut menu.

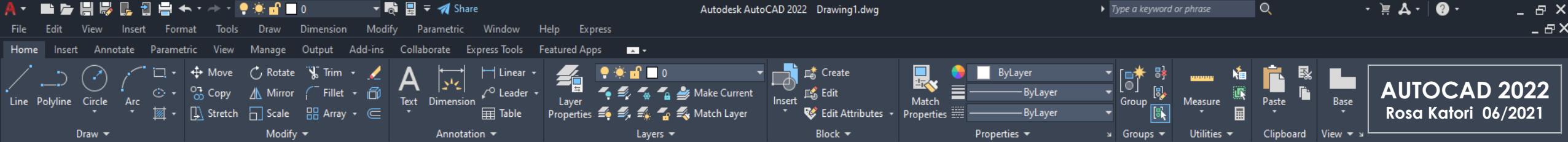
Command: <Grid off>

Type a command

Model Layout1 Layout2 +

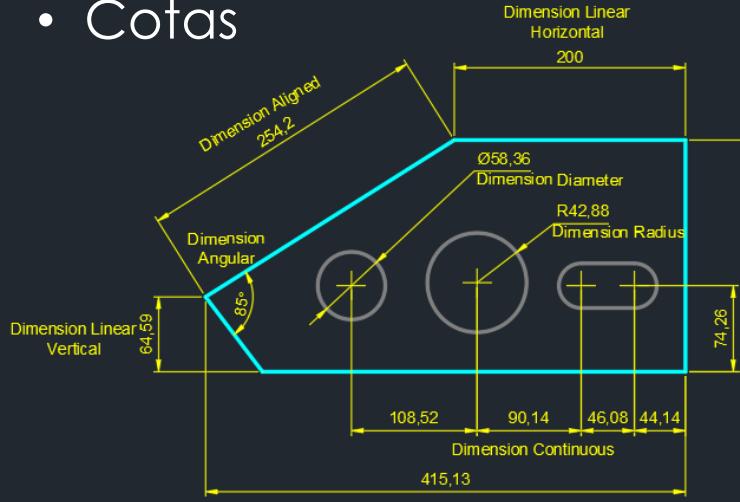
1464.9280, 12.1431, 0.0000 MODEL

Decimal

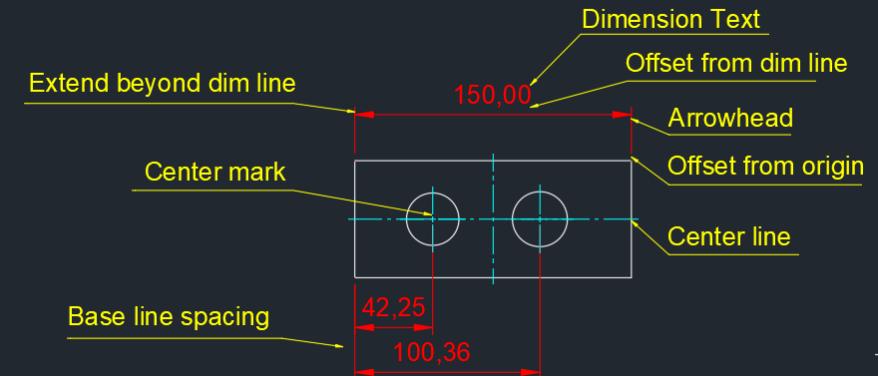


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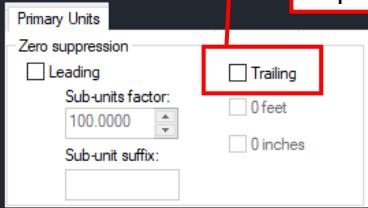
- Cotas



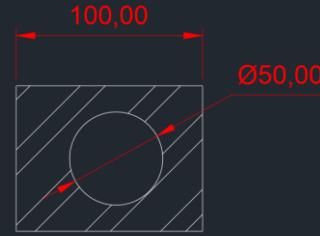
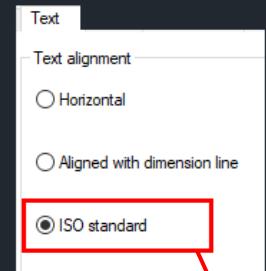
Sugestão para criar um estilo de cota	
Text height (altura do texto)	3 mm
Arrow size (tamanho da seta)	3 mm
Offset from origin	1 mm
Offset from dim line	1 mm
Extend beyond dim line	1 mm
Baseline spacing	6 mm



Dimension Text	Texto da cota
Offset from dim line	Distância entre o texto e a linha de extensão
Arrowhead	Tipos de seta
Offset from origin	Distância entre a linha de extensão e o desenho
Center line	Linha de centro
Dimension line	Linha de dimensão (horizontal)
Extend beyond dim line	Linha que ultrapassa a linha de dimensão
Extension line	Linha de extensão
Center mark	Marca de centro
Base line spacing	Distância entre as cotas para o comando DimBaseline



Controla a exibição do zero após a vírgula.



Alinha o texto horizontalmente.

Press ESC or ENTER to exit, or right-click to display shortcut menu.

Command: <Grid off>

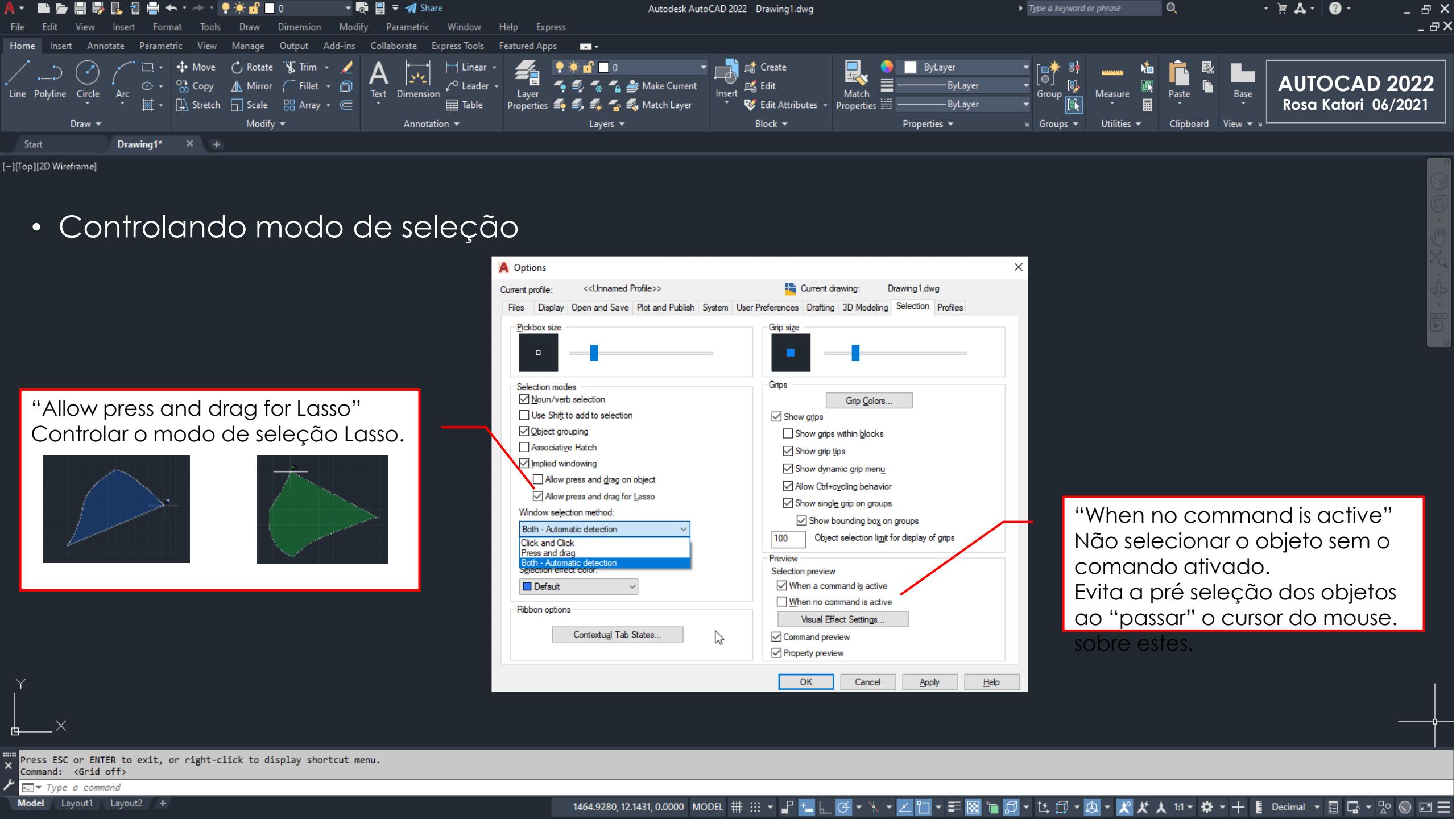
Type a command

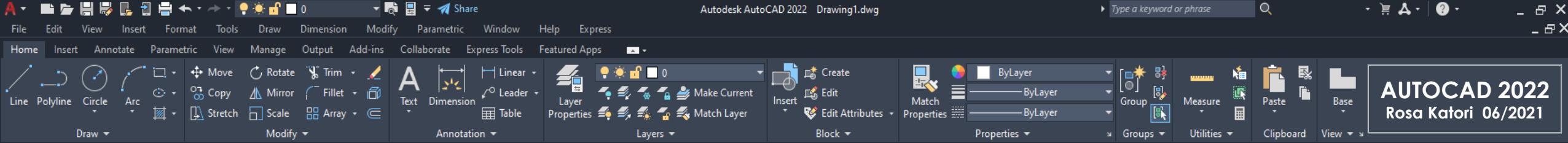
Model Layout1 Layout2 +

1464.9280, 12.1431, 0.0000

MODEL



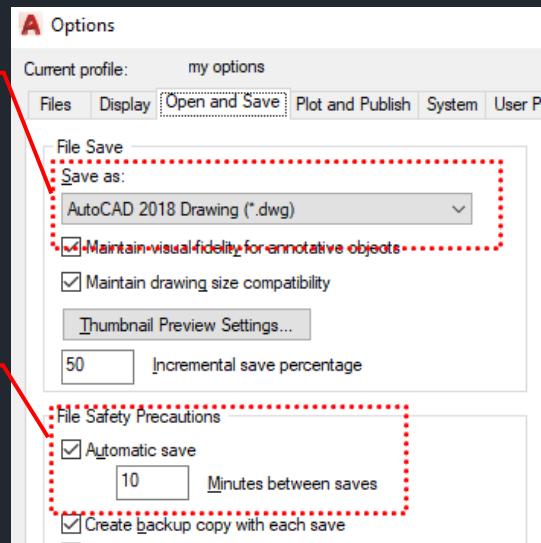




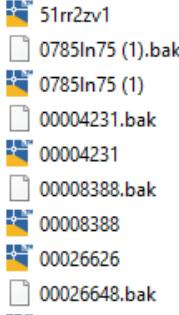
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- Salvando o arquivo

Versão do AutoCAD para salvar os arquivos.

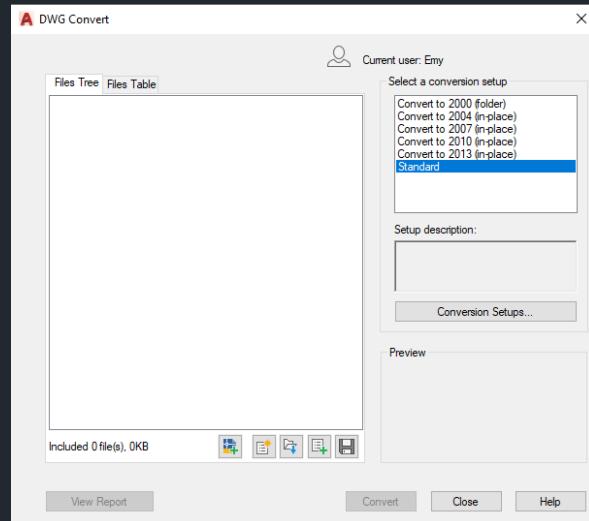


Tempo para Automatic Save.  
Opção para criar o arquivo BAK.



- Comando DWGCONVERT  
Converter arquivos DWG do AutoCAD entre os formatos:

AutoCAD 2013  
AutoCAD 2010  
AutoCAD 2007  
AutoCAD 2004  
AutoCAD 2000



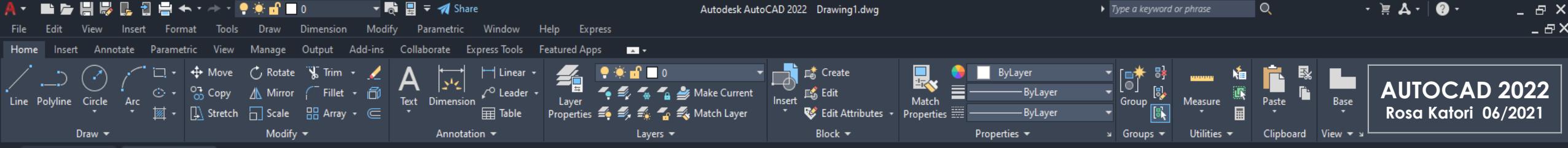
Press ESC or ENTER to exit, or right-click to display shortcut menu.

Command: <Grid off>

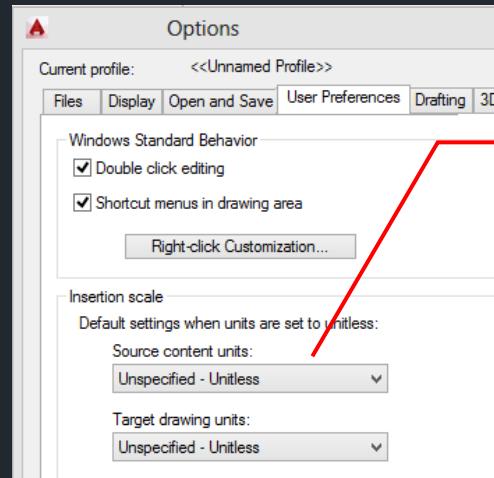
Type a command

Model Layout1 Layout2 +

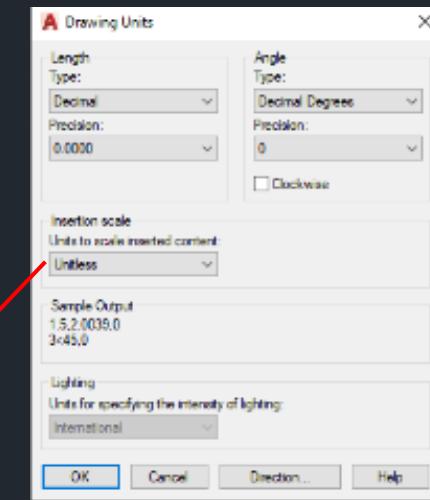
1464.9280, 12.1431, 0.0000 MODEL # ⌂ P L G E T F C S D A 1:1 Decimal



- Controlando a unidade do bloco para evitar alteração no tamanho

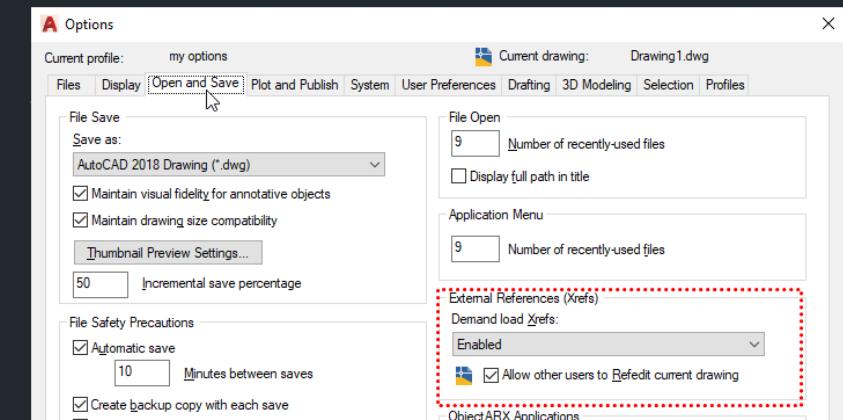


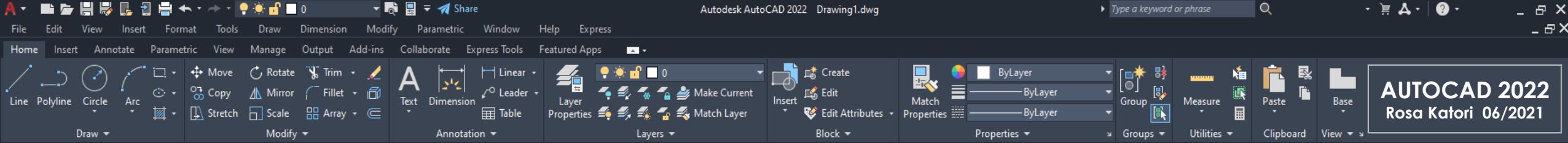
Controla a unidade para a inserção do bloco na origem e destino.



Unitless determina que bloco inserido não será redimensionado para nenhuma unidade.

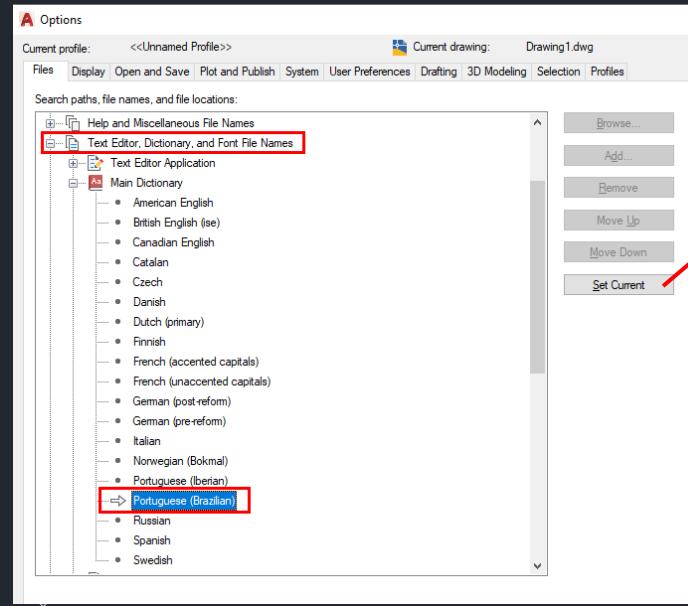
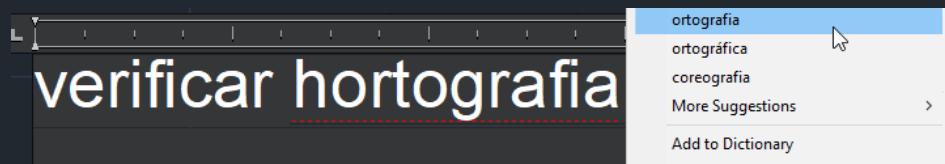
- Controlando o estado da visibilidade e as cores dos Layers em XREF





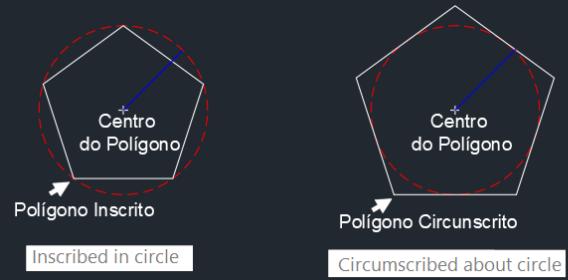
[–][Top][2D Wireframe]

- Determinando o dicionário Português e verificando ortografia

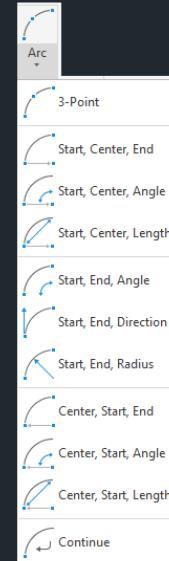
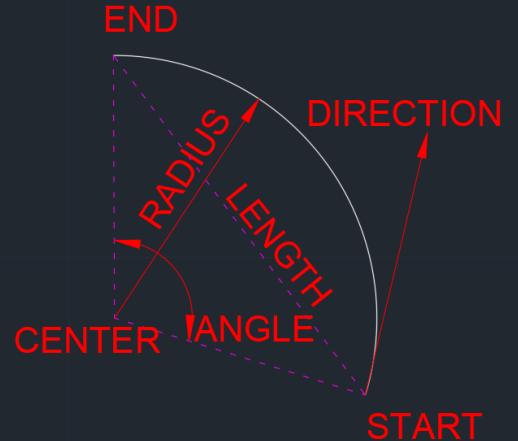


Selecionar o idioma,  
clicar em Set Current.

- Polígono



- Arco



Press ESC or ENTER to exit, or right-click to display shortcut menu.

Command: <Grid off>

Type a command

Model Layout1 Layout2 +

1464.9280, 12.1431, 0.0000 MODEL

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P

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R

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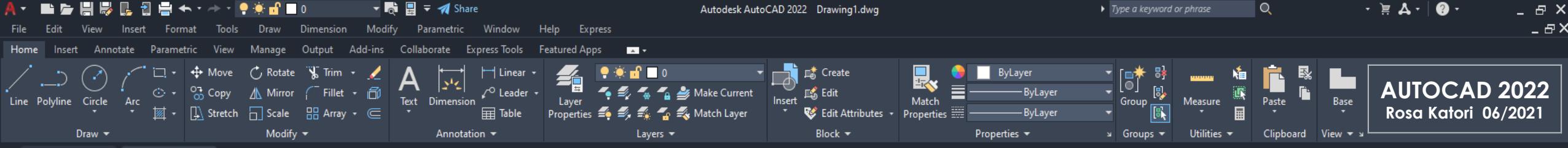
T

+

V

+

X



[–][Top][2D Wireframe]

- Comando Ltscal  
Controla a apresentação das linhas não continuas.



- Variável PSLTSCALE = 0  
Controla a mesma apresentação das linhas não continuas, tanto no Model como no Layout.

Define o fator de escala dos tipos de linha dos objetos desenhados enquanto a variável CELTSCALE apresentar um valor diferente de 1.

A variável altera o efeito do LTSCALE. Por exemplo, determinando LTSCALE = 5 e CELTSCALE = 2, a linha apresentará um fator de escala igual a 10 (o dobro das outras linhas).



Press ESC or ENTER to exit, or right-click to display shortcut menu.

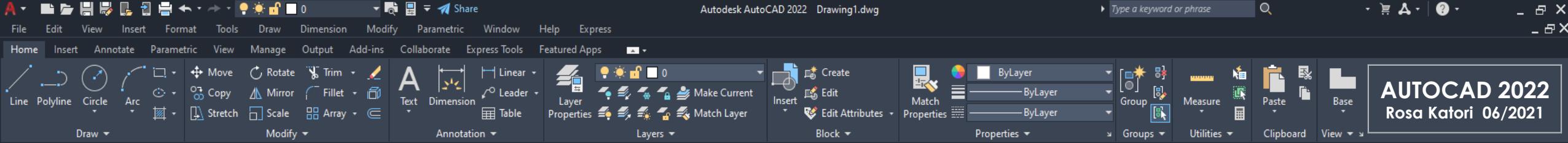
Command: <Grid off>

Type a command

Model Layout1 Layout2

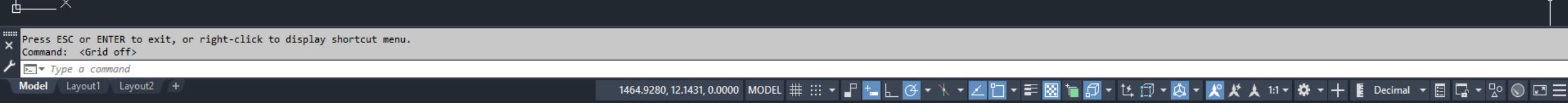
1464.9280, 12.1431, 0.0000 MODEL

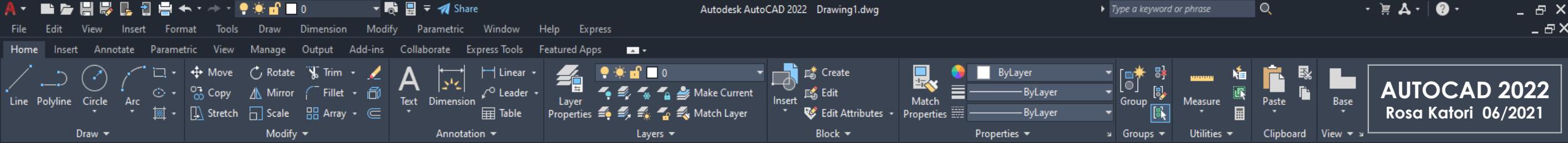




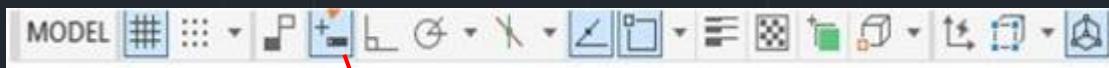
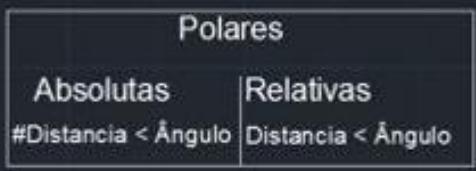
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Determinar como unidade padrão Metric.	Variável MEASUREINIT =1
Controlar o comportamento do Zoom quando ativado pela “rodinha do mouse”	Variável ZOOMFACTOR (60 é o valor padrão. Sugestão 25 a 30)
Controlar a velocidade do comando Zoom Extent	Variável VTDURATION (0 a 5000 milissegundos)
Controlar o acesso ao Model space através do duplo clique na viewport layout	Variável SPACESWITCH 1 = on      0 = off
Objetos selecionados não são apagados com a tecla DELETE	Variável PICKFIRST = 1
Controlar a apresentação das caixas de diálogo para os comandos Open, SaveAs e etc	Variável FILEDIA =1
AutoCAD cancela a seleção do primeiro objeto após selecionar o segundo objeto.	Variável PICKADD = 2
Autocad abre apenas um arquivo por vez.	Variável SDI = 0
Remover a pergunta do comando Pedit “Objects selected is not a polyline, Do you want to turn it into one?” 	Variável PEDIACCEPT = 1
Controlar o background de Field <b>09:55:58</b>	Variável FIELDDISPLAY = 0





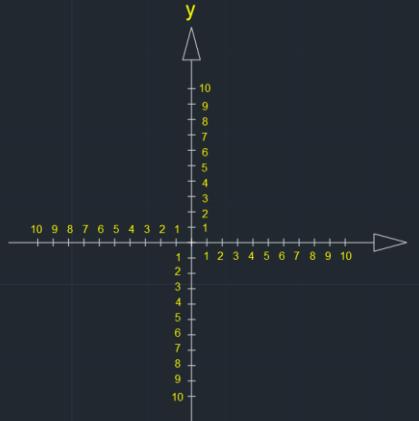
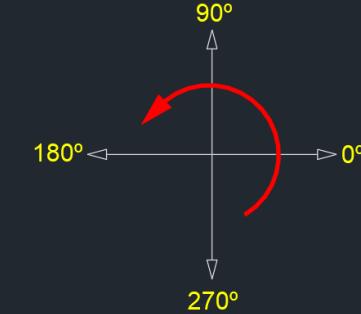
- Coordenadas absolutas, relativas, polares



DYN = desativada



DYN = ativada



Press ESC or ENTER to exit, or right-click to display shortcut menu.

Command: <Grid off>

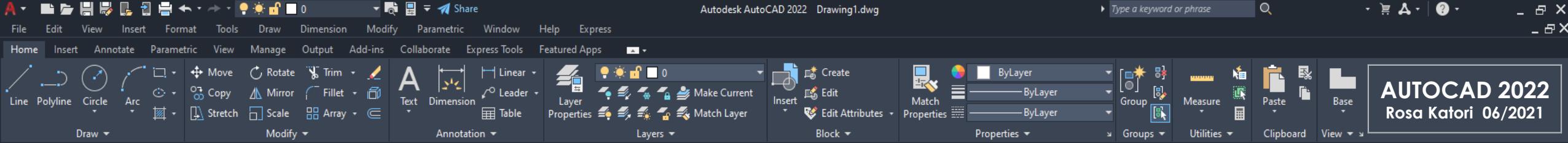
Type a command

Model Layout1 Layout2

1464.9280, 12.1431, 0.0000

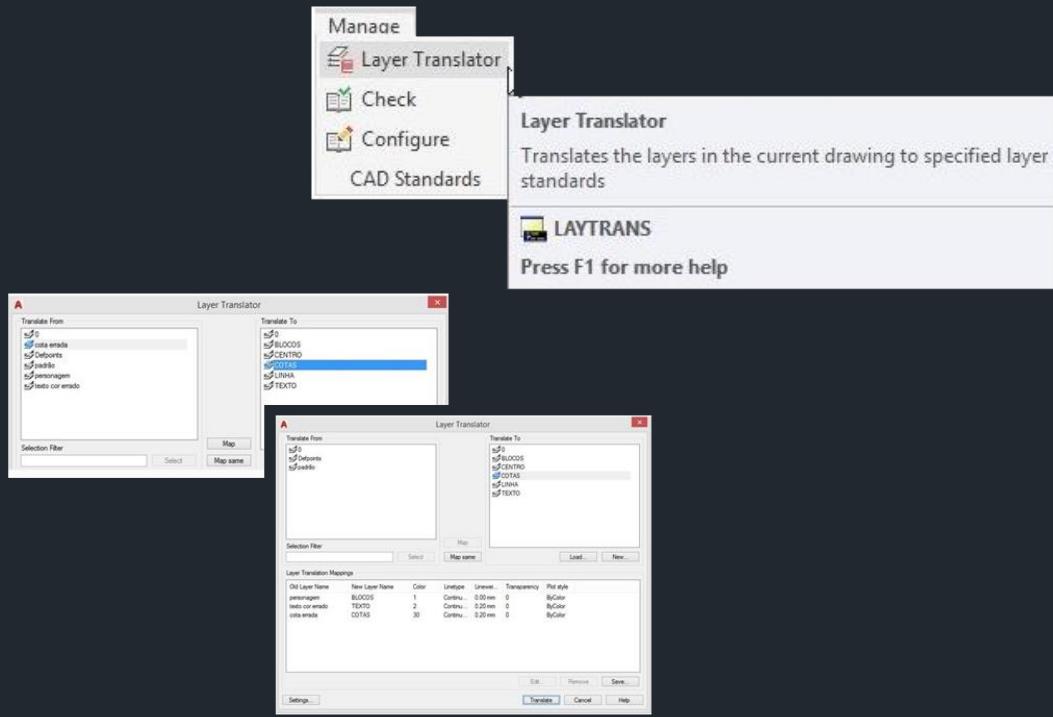
MODEL





[–][Top][2D Wireframe]

- Comando Layer Translator  
Compara e converte layers de um desenho para outro desenho.



Press ESC or ENTER to exit, or right-click to display shortcut menu.

Command: <Grid off>

Type a command

- Variável DimLayer  
Define automaticamente o layer criado para as cotas.

DIMLAYER  
DIMLAYER

- Variável Hplayer  
Define automaticamente o layer criado para hachuras.

HPLAYER  
HPLAYER

- Variável Textlayer  
Define automaticamente o layer criado para textos.

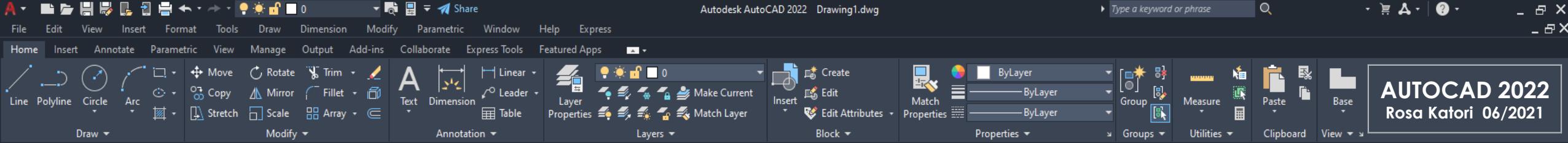
TEXTLAYER  
TEXTLAYER

- Variável Centerlayer  
Define automaticamente o layer criado para linhas de centro

CENTERLAYER  
CENTERLAYER

- Variavel Xreflayer  
Define automaticamente o layer criado para arquivo Xref.

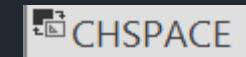
XREFLAYER  
XREFLAYER



[–][Top][2D Wireframe]

- Comando Chspace

Move objetos do ambiente Model para Paper Space e vice-versa.



- Comando Export Layout

Salva todos os objetos visíveis no layout corrente em um novo arquivo no ambiente Model.



- Variável PELLIPSE  
Controla o tipo de elipse criada com o comando ELLIPSE.  
= 0 entidades ELLIPSE  
= 1 entidades POLYLINE



Enter new value for PELLIPSE <0>: 0



Enter new value for PELLIPSE <1>: 1



Press ESC or ENTER to exit, or right-click to display shortcut menu.

Command: <Grid off>

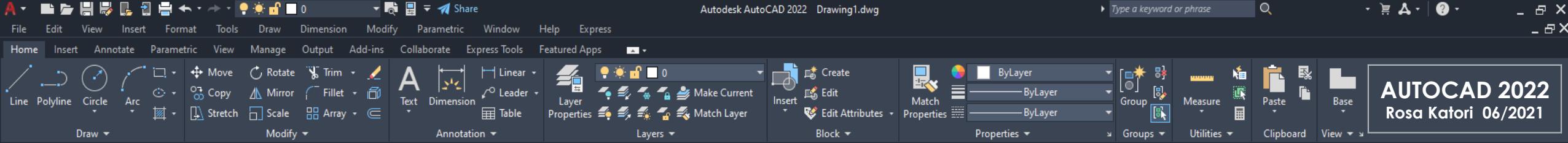
Type a command

Model Layout1 Layout2 +

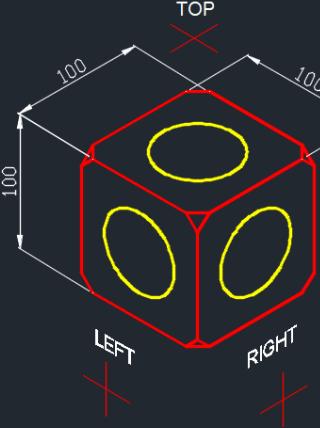
1464.9280, 12.1431, 0.0000

MODEL

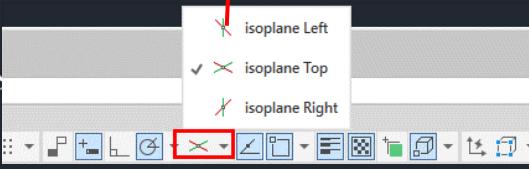




- Isométrico

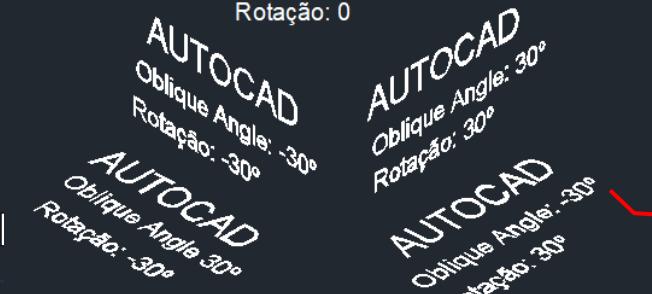
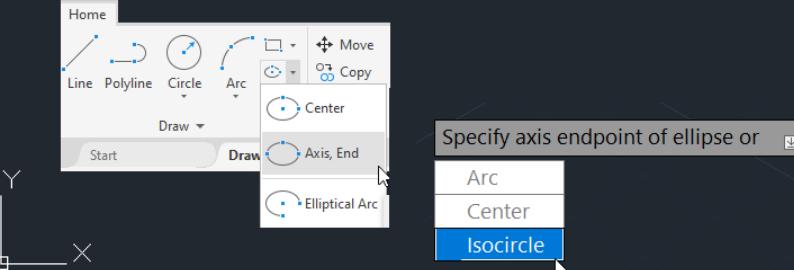


Tecla F5, altera a direção do cursor em modo Isometric.



Círculos isométricos:

Ellipse - opção Isocircle



AUTOCAD

Oblique Angle: 0  
Rotação: 0

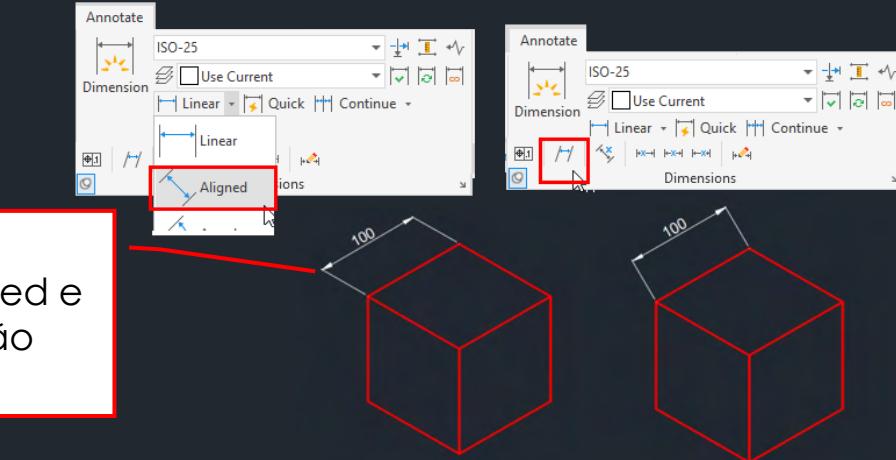
AUTOCAD

Oblique Angle: 30°  
Rotação: 30°

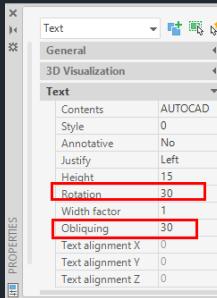
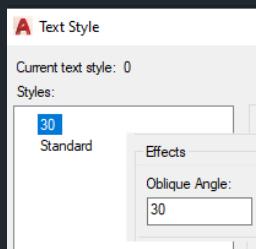
AUTOCAD

Oblique Angle: 30°  
Rotação: 30°

Exemplo de textos em isométricos



Cota isométrica.  
Cotar com o DimAligned e determinar a inclinação com Oblique.



A TEXT

Specify rotation angle of text

Texto isométrico.  
Crie estilo de texto, determine o ângulo em Oblique angle. Ative o comando Text e determine o ângulo de rotação em rotation angle.

Press ESC or ENTER to exit, or right-click to display shortcut menu.

Command: <Grid off>

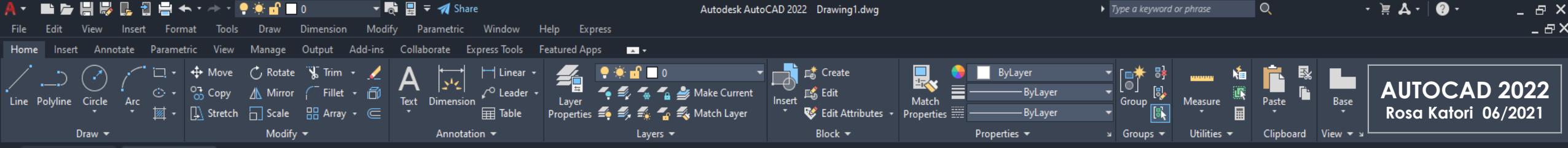
Type a command

Model Layout1 Layout2

1464.9280, 12.1431, 0.0000

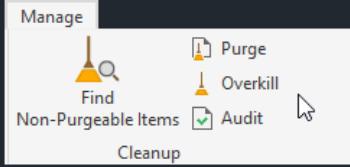
MODEL

Decimal



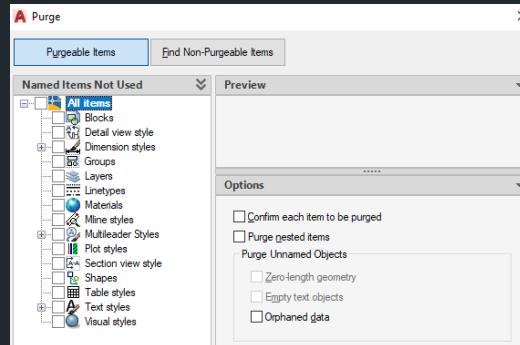
[–][Top][2D Wireframe]

## “Limpando” o desenho



- **Comando Purge**

Remove os itens não utilizados (blocos, layers, estilos, etc) , reduzindo o tamanho do arquivo.



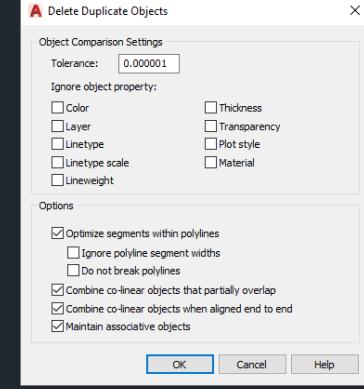
Após aplicar o Purge , é necessário aplicar o comando Save.

Press ESC or ENTER to exit, or right-click to display shortcut menu.

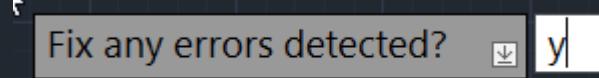
Command: <Grid off>

Type a command

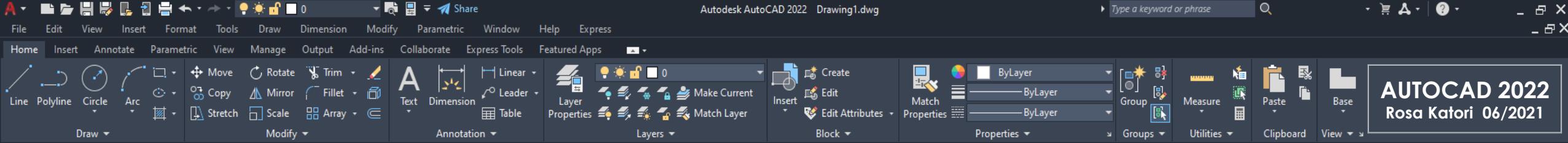
- **Comando Overkill**  
Remove linhas, arcos e polylines duplicados ou sobrepostos no arquivo.



- **Comando Audit**  
Avalia a integridade do desenho e corrige alguns erros.



Na mensagem para fixar os erros detectados, confirme com Y (yes)



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[–][Top][2D Wireframe]

## Visualização de sólidos

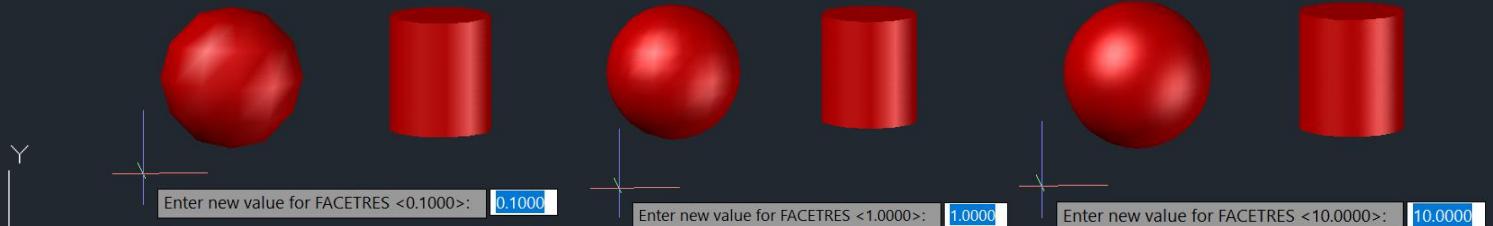
- **Variável ISOLINES**

Controlar o número de linhas de contorno exibidas nas superfícies curvas de sólidos 3D.



- **Variável FACETRES**

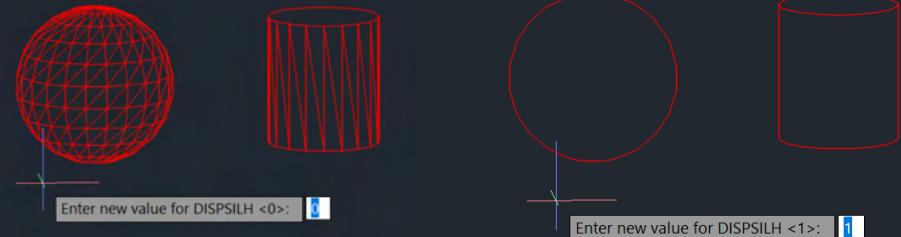
Ajustar a suavidade dos objetos sombreados e objetos renderizados.



- **Variável DISPSILH**

Controlar a apresentação de curvas de silhuetas em modelos 3D em modo Hide.

- = 0 Não exibe arestas de silhueta
- = 1 Exibe arestas de silhueta



Press ESC or ENTER to exit, or right-click to display shortcut menu.

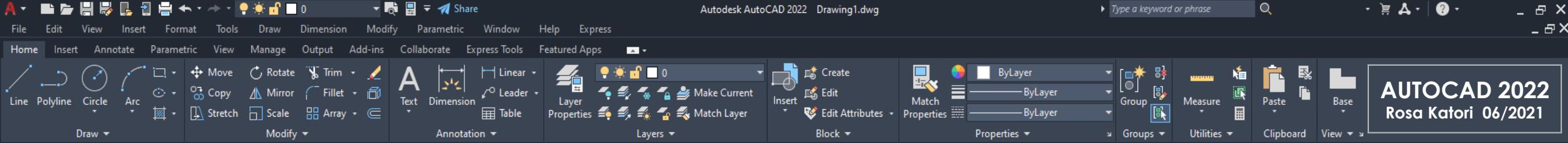
Command: <Grid off>

Type a command

Model Layout1 Layout2 +

1464.9280, 12.1431, 0.0000 MODEL #

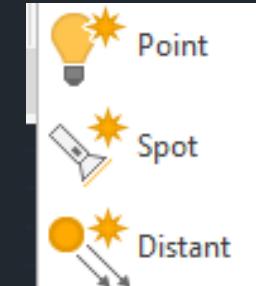
Decimal



- Comando Convertoldmaterials  
Converte materiais de desenho de versões anteriores ao AutoCAD 2007, exceto materiais procedurais.



- Comando Convertoldlights  
Converte as luzes criadas nas versões anteriores ao AutoCAD 2007.



## Estilo de plotagem CTB STB



- Comando Convertctb  
Converte estilos de plotagem CTB em estilos de plotagem STB.
- Comando Convertpstyles  
Converte estilos de plotagem STB em estilos de plotagem CTB.



Press ESC or ENTER to exit, or right-click to display shortcut menu.

Command: <Grid off>

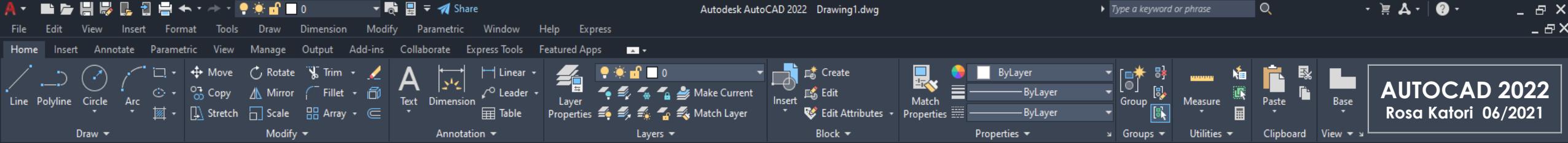
Type a command

Model Layout1 Layout2 +

1464.9280, 12.1431, 0.0000

MODEL

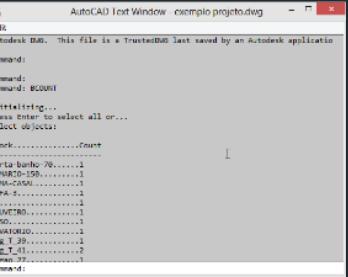
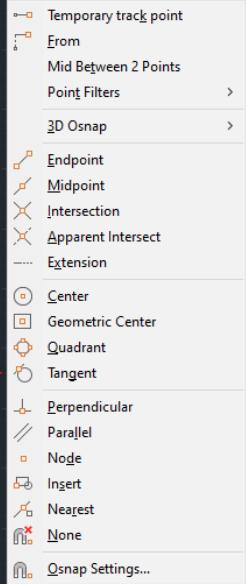




[–][Top][2D Wireframe]



Ativar menu Snap overrides.	Tecla Shift + botão direito do mouse
Remover os objetos selecionados.	Remover os objetos selecionados.
Determinar raio e distancias = 0 para os comandos Fillet e Chamfer	Pressionar tecla Shift durante a execução dos comandos.
Para alternar os comandos Trim ou Extend.	Pressionar a Tecla Shift
Ativar o modo Ortho durante a execução de comandos para desenhar.	Pressionar tecla Shift
Para alternar a seleção de objetos sobrepostos.	Tecla Shift e barra de espaço
Ativar comando Orbit.	Tecla Shift + scroll do mouse
Identificar OSNAP no objeto	Tecla TAB
Para selecionar a face, aresta ou vértice de um modelo 3D.	Tecla CTRL
Ativar o editor de texto.	Tecla F2



Press ESC or ENTER to exit, or right-click to display shortcut menu.

Command: <Grid off>

Type a command

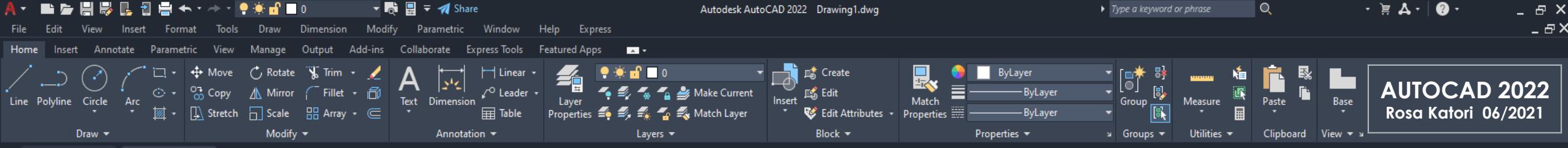
Model Layout1 Layout2 +

1464.9280, 12.1431, 0.0000

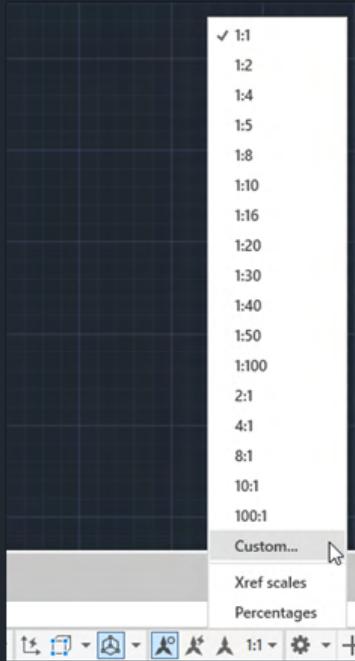
MODEL



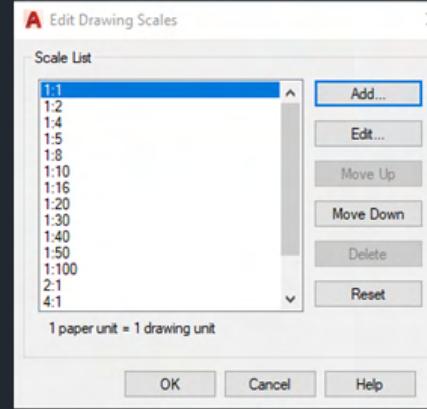
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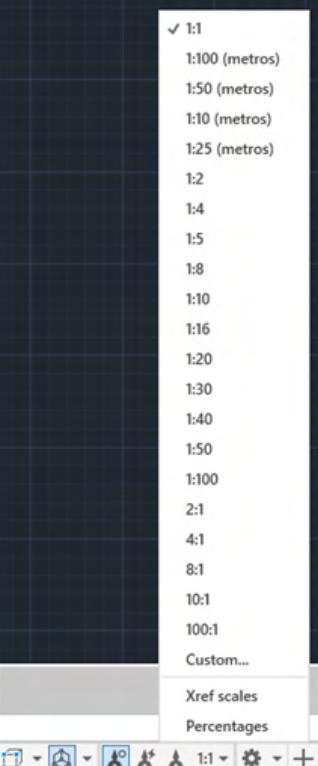
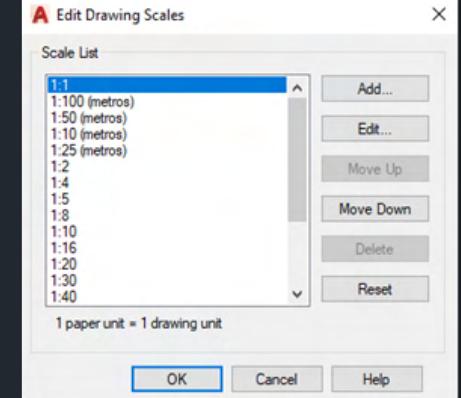
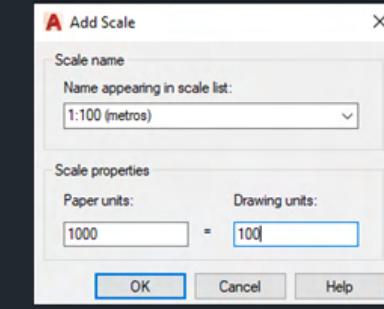
- Escala personalizada em metros - Scale List



Clique em Custom



Clique em Add



Preencha os campos.

Observação:

Paper units = 1000 (desenho em metros)

Drawing units = 100 (referente a escala 1:100)



Press ESC or ENTER to exit, or right-click to display shortcut menu.

Command: <Grid off>

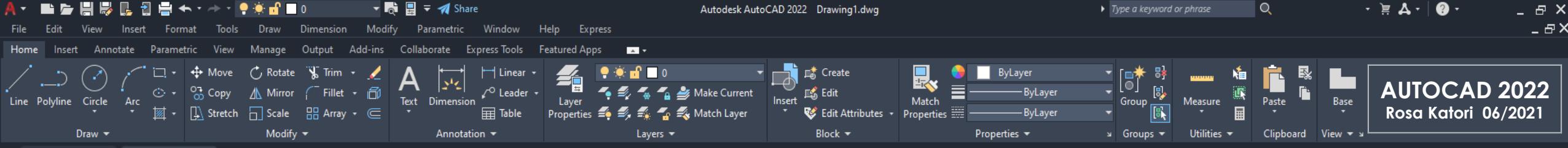
Type a command

Model Layout1 Layout2

1464.9280, 12.1431, 0.0000

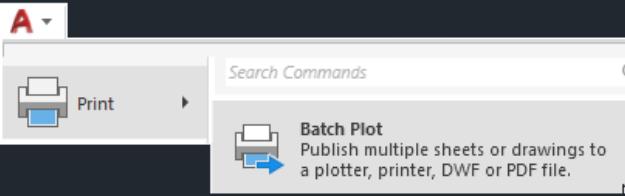
MODEL



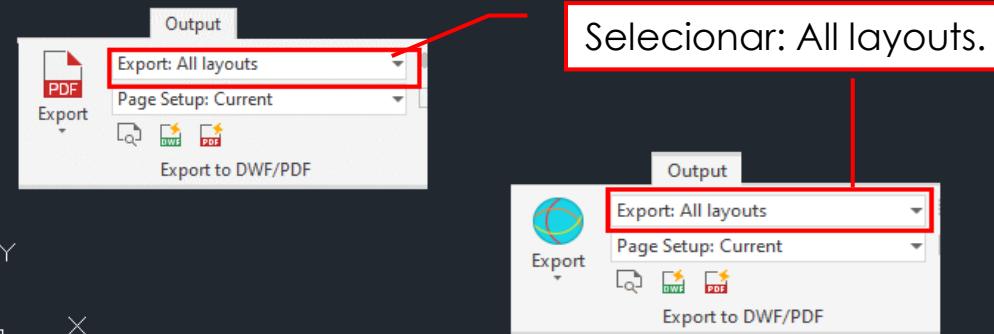


[–][Top][2D Wireframe]

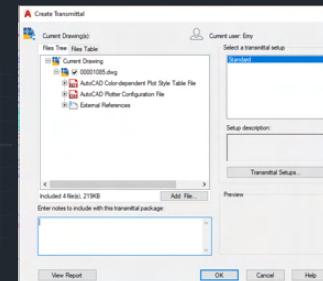
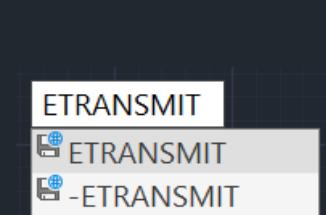
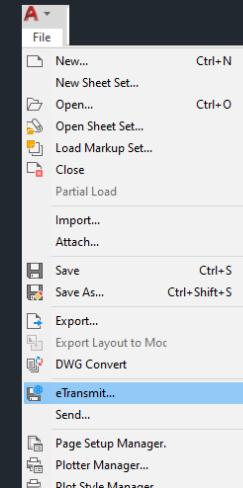
- Ferramenta Batch Plot  
Plotar vários desenhos.



- Comando ExportPDF / ExportDWF  
Converter todos os Layouts do arquivo em PDF ou DWF



- Comando eTransmit  
Para transportar arquivo DWG e arquivos relacionados, compactando um conjunto de arquivos, incluindo os arquivos necessários para abrir o projeto em outro computador sem perder as informações (Xref, Raster image, estilos de fonte, texturas 3D, estilos de impressão).



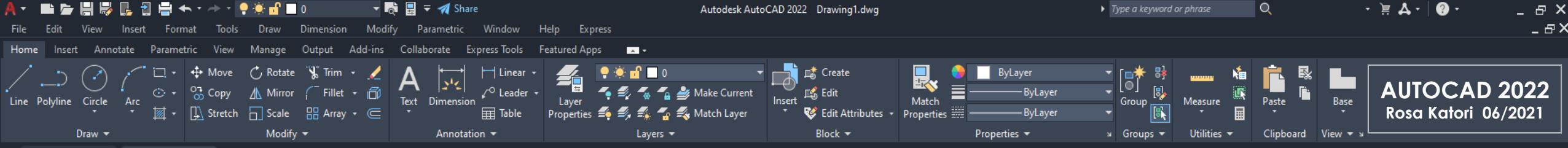
Press ESC or ENTER to exit, or right-click to display shortcut menu.

Command: <Grid off>

Type a command

Model Layout1 Layout2 +

1464.9280, 12.1431, 0.0000 MODEL # : P L G T E S I 1:1 Decimal



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- Annotative

Objetos que permitem a propriedade  
Annotative

Texto (Text e Mtext)

Dimension

Tolerance

Multileaders

Leaders

Hachuras

BlocksAtributos

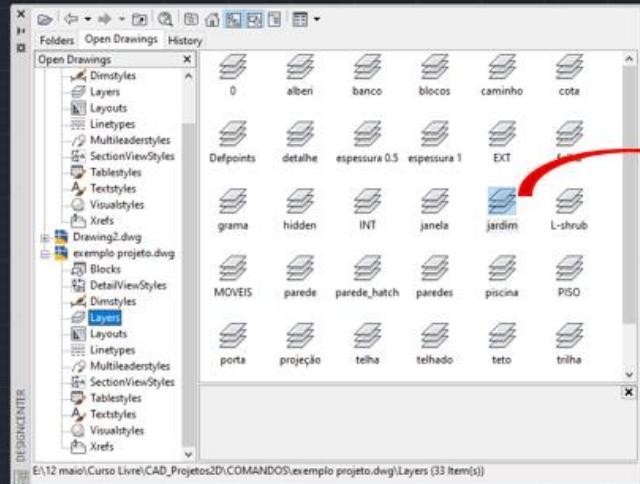
Annoallvisible  
Oculta ou exibe  
objetos anotativos  
que não suportam a  
escala de anotação  
atual.



Annoautoscale  
Atualiza objetos  
anotativos para  
suportar a escala de  
anotação quando a  
escala de anotação  
é alterada

- Design Center (ADC)

“Arraste” blocos, layers tipos de linhas,  
estilos de cotas, estilos de textos, etc.  
Tecla de atalho CTRL +2.



Press ESC or ENTER to exit, or right-click to display shortcut menu.

Command: <Grid off>

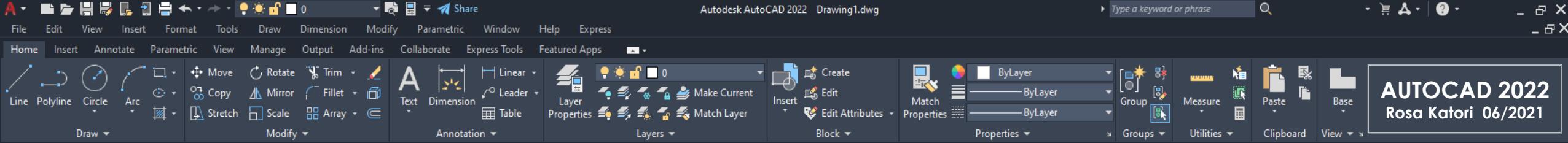
Type a command

Model Layout1 Layout2

1464.9280, 12.1431, 0.0000

MODEL

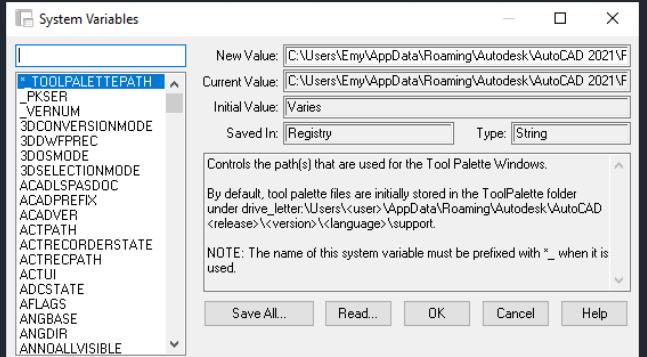
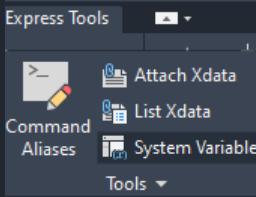
Decimal



## • Dynamic Block

Parâmetro	Tipo de Grid	Ação que é possível associar com o Parâmetro
Point	■	Standard Move, Stretch
Linear	▶	Linear Move, Scale, Stretch, Array
Polar	■	Standard Move, Scale, Stretch, Polar Stretch, Array
XY	■	Standard Move, Scale, Stretch, Array
Rotation	●	Rotation Rotate
Flip	→	Flip Flip
Alignment	►	Alignment Nenhum ( ação está contida no parâmetro)
Visibility	▼	Lookup Nenhum (ação é controlada pela visibilidade)
Lookup	▼	Lookup Lookup
Base	■	Standard Nenhum

- Comando Command Aliases  
Lista as variáveis do sistema.



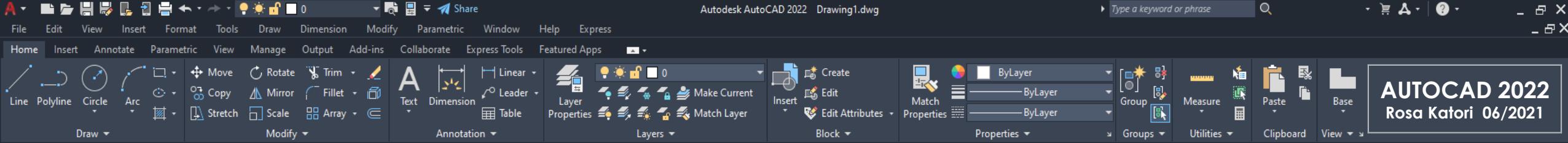
Press ESC or ENTER to exit, or right-click to display shortcut menu.

Command: <Grid off>

Type a command

Model Layout1 Layout2 +

1464.9280, 12.1431, 0.0000 MODEL # ⌂ P L G E T F T S T A D C A N M 1:1 Decimal



- Sugestão para Layers

Nome do Layer	Cor	Tipo de linha	Espessura (mm)	Descrição	Exemplo
Texto pequeno	1 (red)	Continuous	0,2	Textos com altura até 3,0mm	
Texto grande	6 (magenta)	Continuous	0,2	Textos com altura acima de 3,5mm	
cotas	1 (red)	Continuous	0,2	Cotas	
Blocos	1 (red)	Continuous	0,25	Blocos (vários)	
Mobilia	1 (red)	Continuous	0,25	Blocos - mobília	
Linha auxiliar	2 (yellow)	Continuous	0,25	Linha auxiliar	
Blocos detalhes	3 (green)	Continuous	0,15	Blocos com vários detalhes	
Louça	3 (green)	Continuous	0,15	Blocos - louça	
Porta	4 (cyan)	Continuous	0,20	Porta	
Janela	3 (green)	Continuous	0,20	Janela	
Parede	5 (blue)	Continuous	0,50	Paredes	
Vegetação	3 (green)	Continuous	0,20	Blocos - vegetação	
Linha centro	2 (yellow)	Dashdot	0,25	Linha centro	
Linha projeção	2 (yellow)	Dashdot	0,25	Linha centro	
Hachura	8 (gray)	Continuous	0,15	Hachura	
Espessura 1	7 (white)	Continuous	1,00	Arestas e contornos visíveis	
Espessura 0,50	5 (blue)	Continuous	0,50	Arestas e contornos visíveis	
Espessura 1	7 (white)	Continuous	0,00	Detalhes pequenos	

Press ESC or ENTER to exit, or right-click to display shortcut menu.

Command: <Grid off>

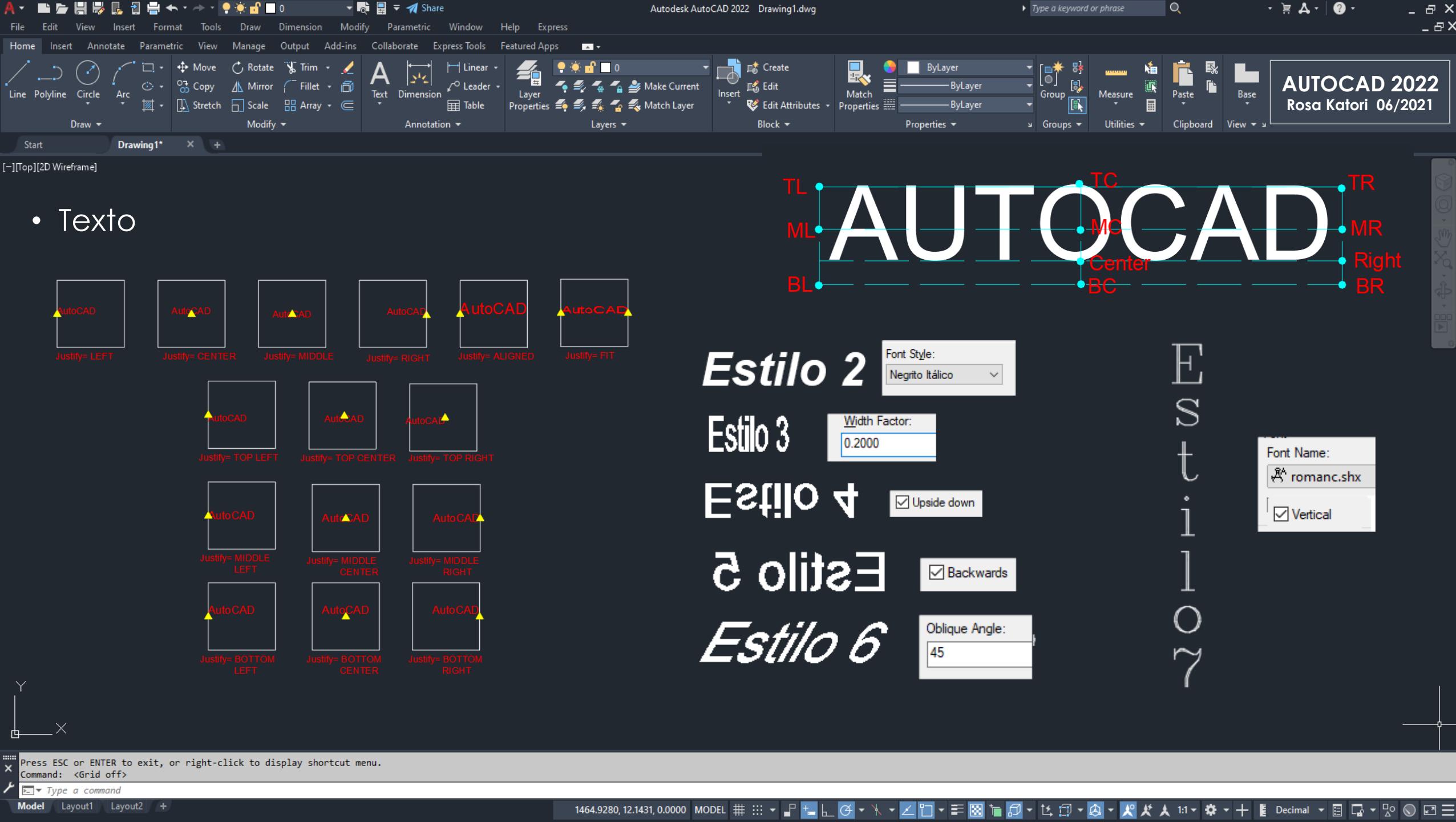
Type a command

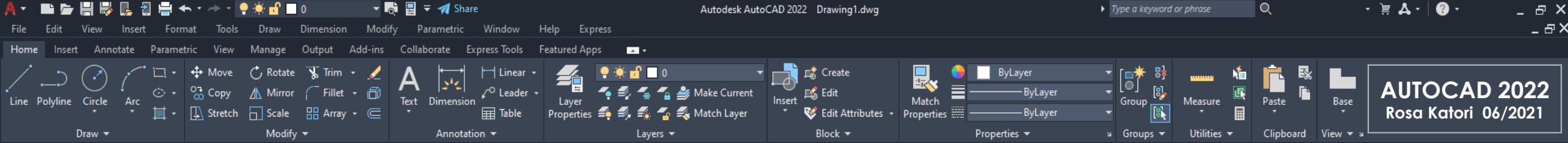
Model Layout1 Layout2 +

1464.9280, 12.1431, 0.0000

MODEL

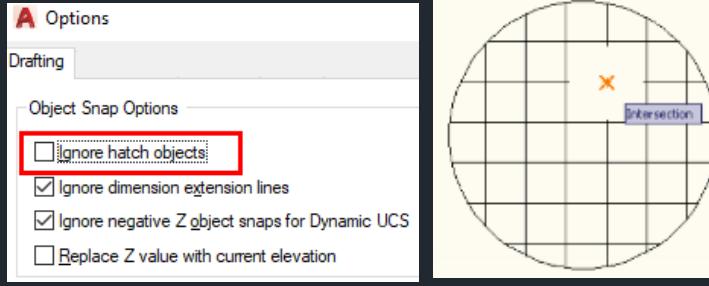






## Hachuras

- Ativando OSNAP em hachuras



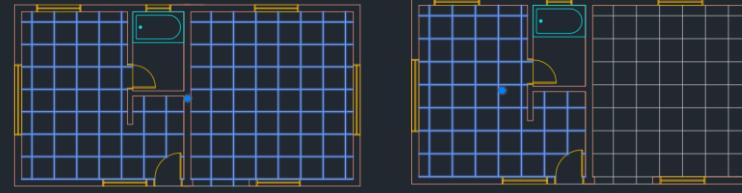
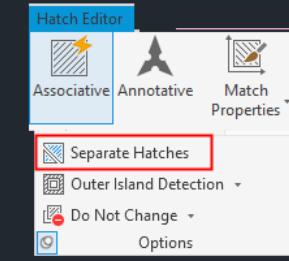
Variável HPQUICKPREVIEW = off  
Evita que o AutoCAD identifique uma área fechada quando se passa o mouse sobre e mostre o preview do preenchimento.



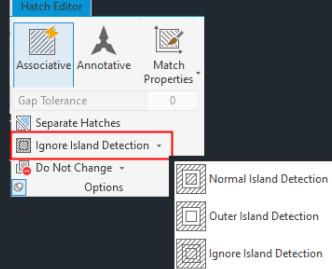
Press ESC or ENTER to exit, or right-click to display shortcut menu.

Command: <Grid off>

Type a command

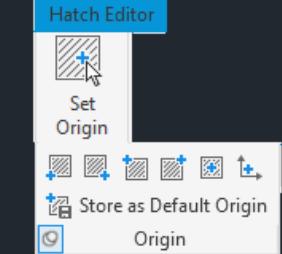
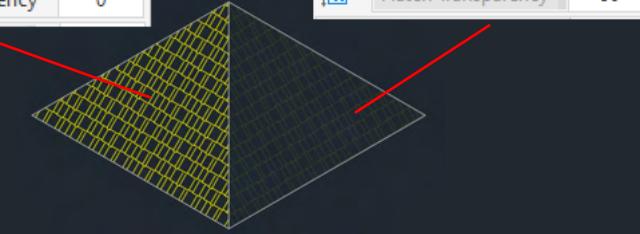


Separando hachuras

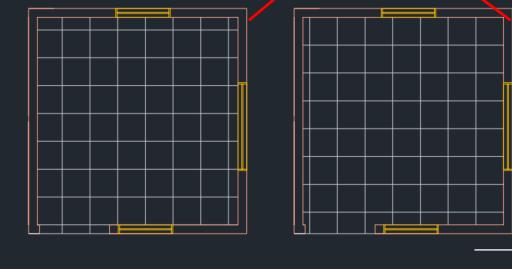


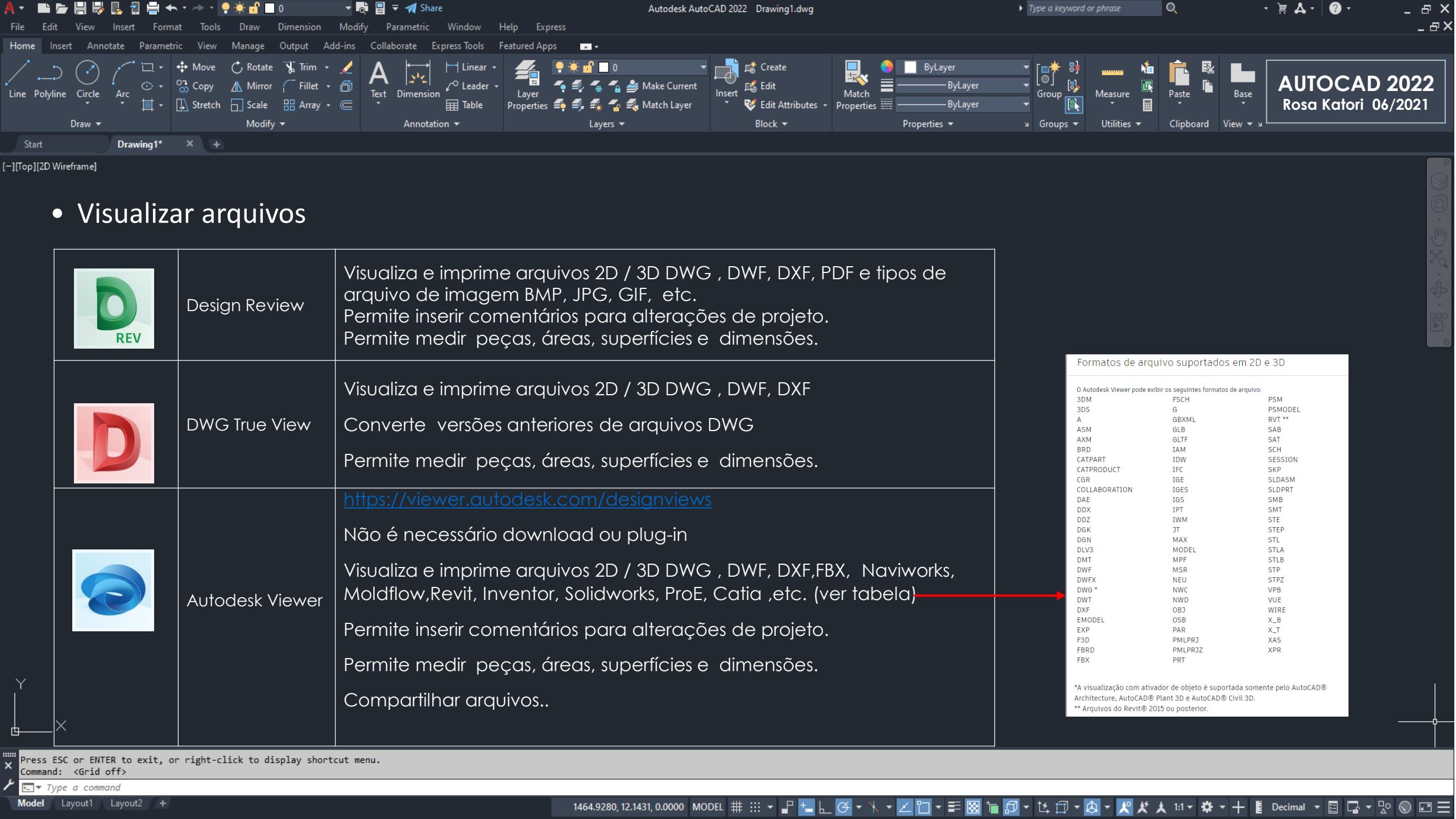
Controlando ilhas

Controlando transparência



Controlando a origem da hachura





Autodesk AutoCAD 2022 Drawing1.dwg

Type a keyword or phrase

File Edit View Insert Format Tools Draw Dimension Modify Parametric Window Help Express

Home Insert Annotate Parametric View Manage Output Add-ins Collaborate Express Tools Featured Apps

Line Polyline Circle Arc Move Rotate Trim Copy Mirror Fillet Scale Array Stretch Linear Leader Text Dimension Layer Properties Table Leader Make Current Layer Properties Match Layer Block Insert Edit Match Attributes Properties Group Measure Paste Base Clipboard View

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[–][Top][2D Wireframe]

# Rosa Katori

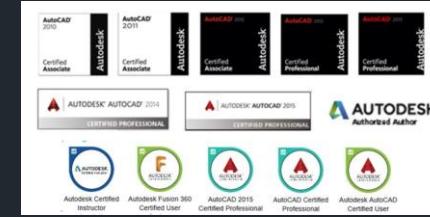
Minhas publicações:



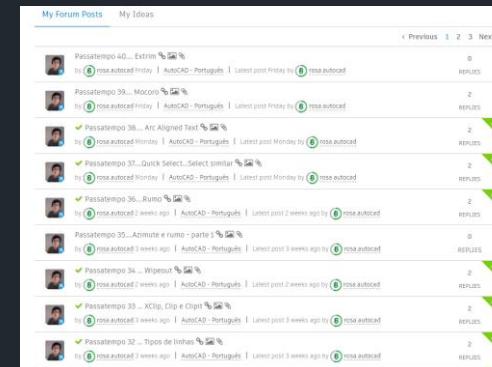
Blog:  
<https://rosa-cad.com/>



Instrutora, palestrante, autora de livros sobre AutoCAD



Membro Expert Elite da Comunidade de Usuários Autodesk – Português



Press ESC or ENTER to exit, or right-click to display shortcut menu.

Command: <Grid off>

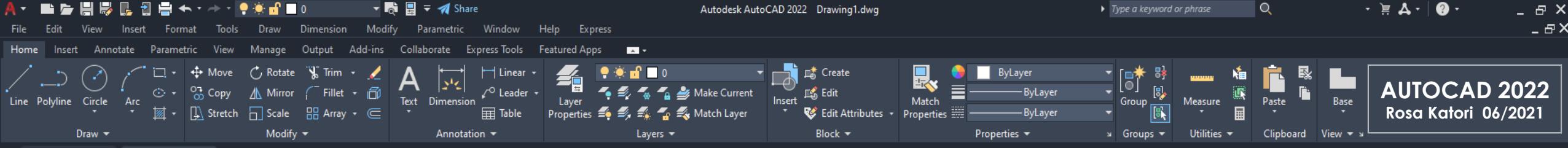
Type a command

Model Layout1 Layout2

1464.9280, 12.1431, 0.0000

MODEL





AUTOCAD 2022  
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Até a próxima versão...



Press ESC or ENTER to exit, or right-click to display shortcut menu.

Command: <Grid off>

Type a command

Model Layout1 Layout2

1464.9280, 12.1431, 0.0000 MODEL # : + L G T E S A 1:1 Decimal