

AUTOCAD 2004

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www.aboutcivil.com

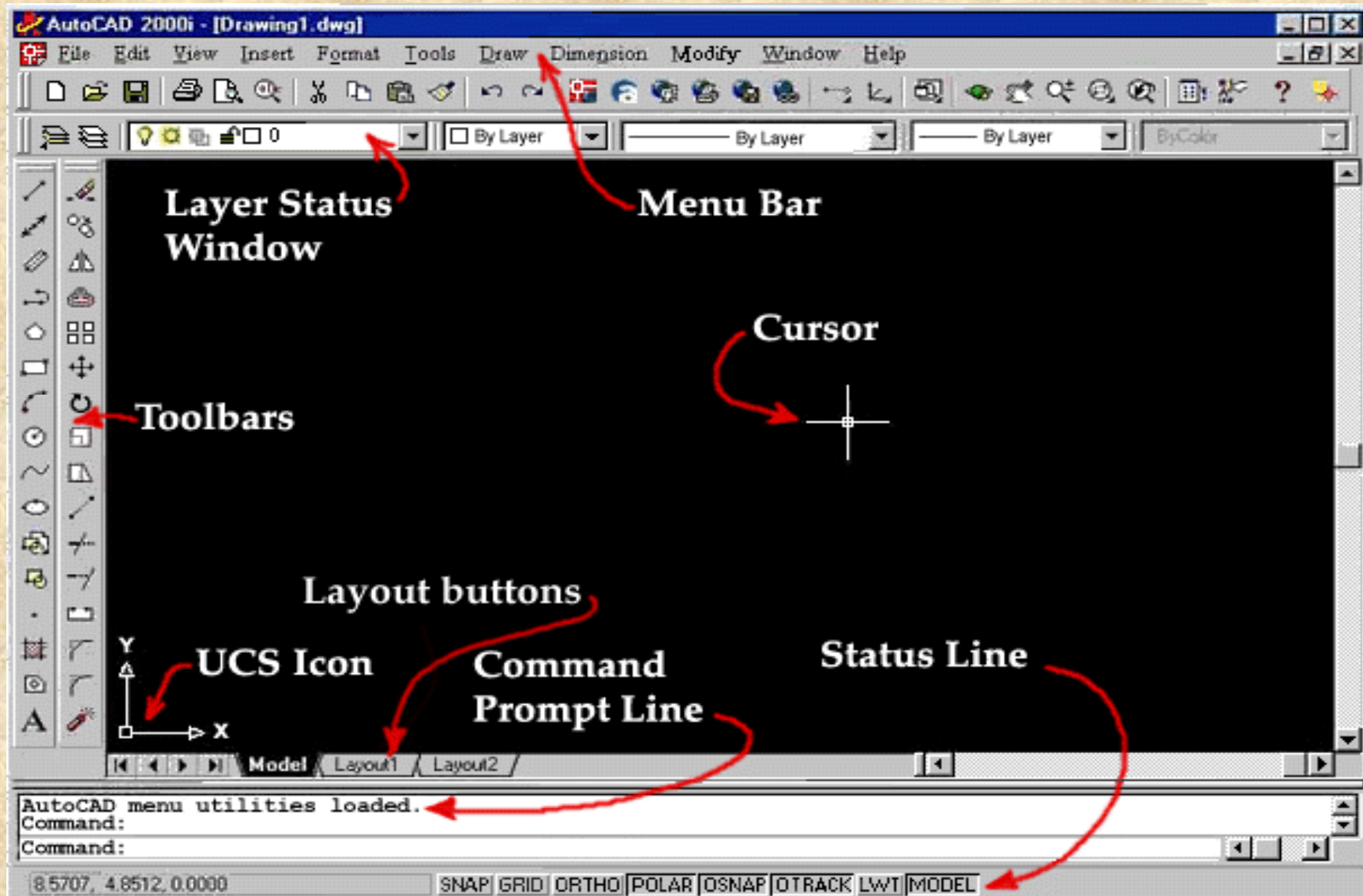
Introduction to AutoCAD

- AutoCAD is a CAD (Computer Aided Design or Computer Aided Drafting) software for 2D and 3D design and drafting.

With AutoCAD you can:

- Quickly create designs
- Improved quality over hand drafting
- Can be customized to suit the individual's needs
- Teaches a marketable skill

Introduction to AutoCAD interface



Workspace

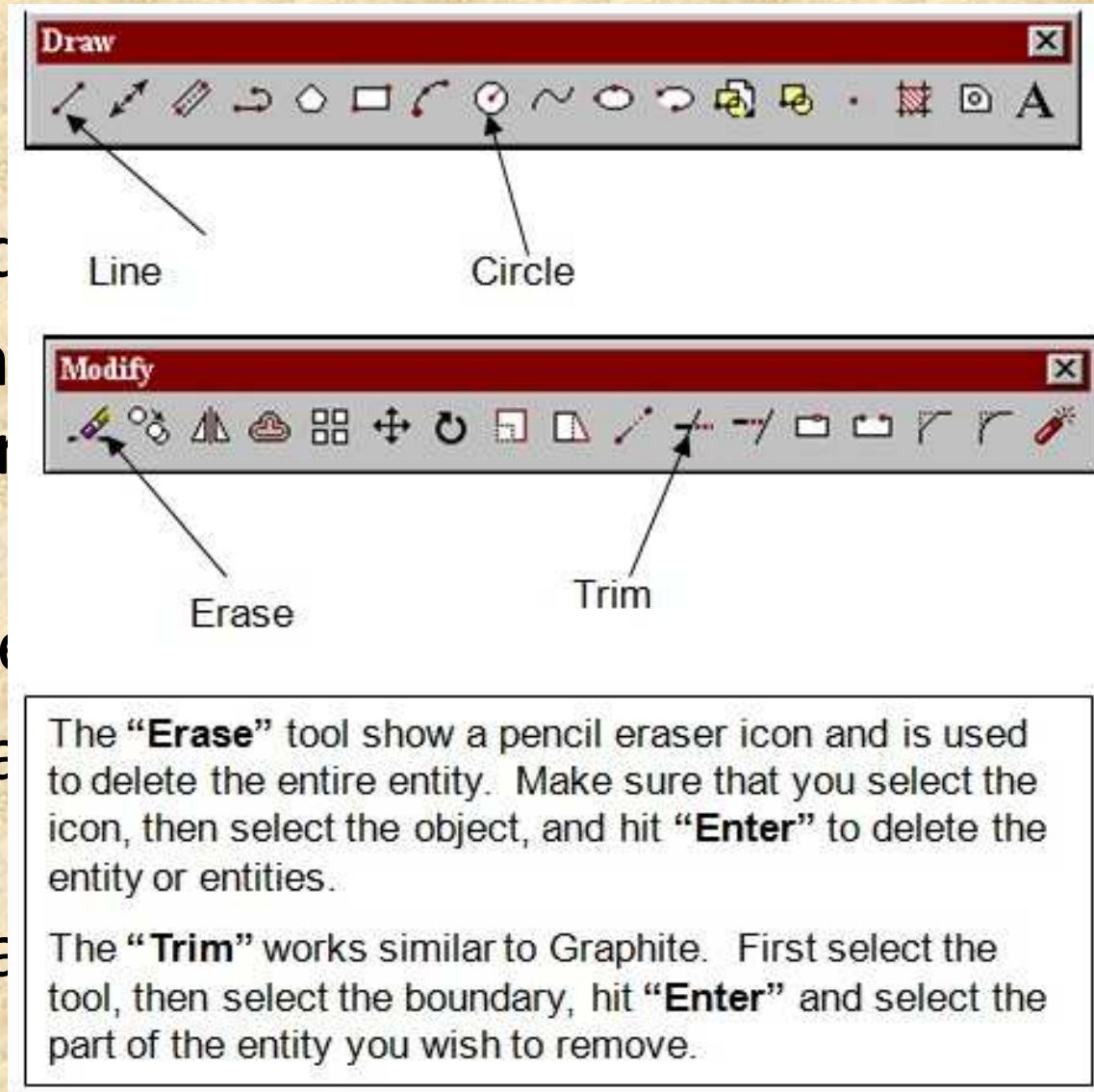
- It is the drafting board of AutoCAD where all the drawing and drafting activities are done.
- Its also called Model space
- Nice thing about this black portion is that it is infinite in size. That's why it eliminate the use of scales in our drawings (as opposed to limited space on papers or sheets)

Menus

- To launch AutoCAD commands
- Similar to other windows applications

Toolbars

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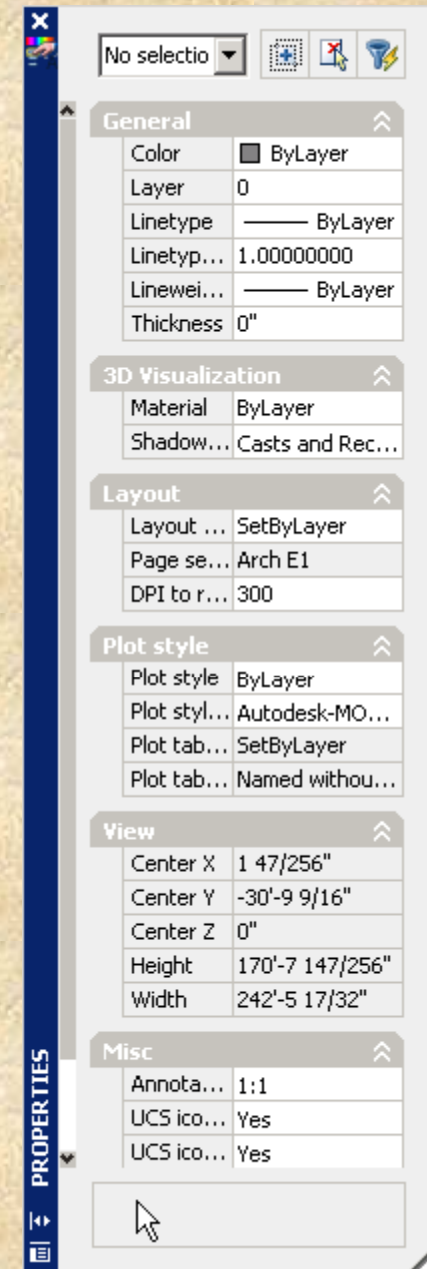
Command Line

another way of entering commands

- In command line everything must be entered through the keyboard
- After launching a command through any means command line will prompt you what next step should be taken to complete the command

Palettes

- A dialog box of features
- They combine the functionality of a dialog box with the flexibility of a toolbar



How to enter commands

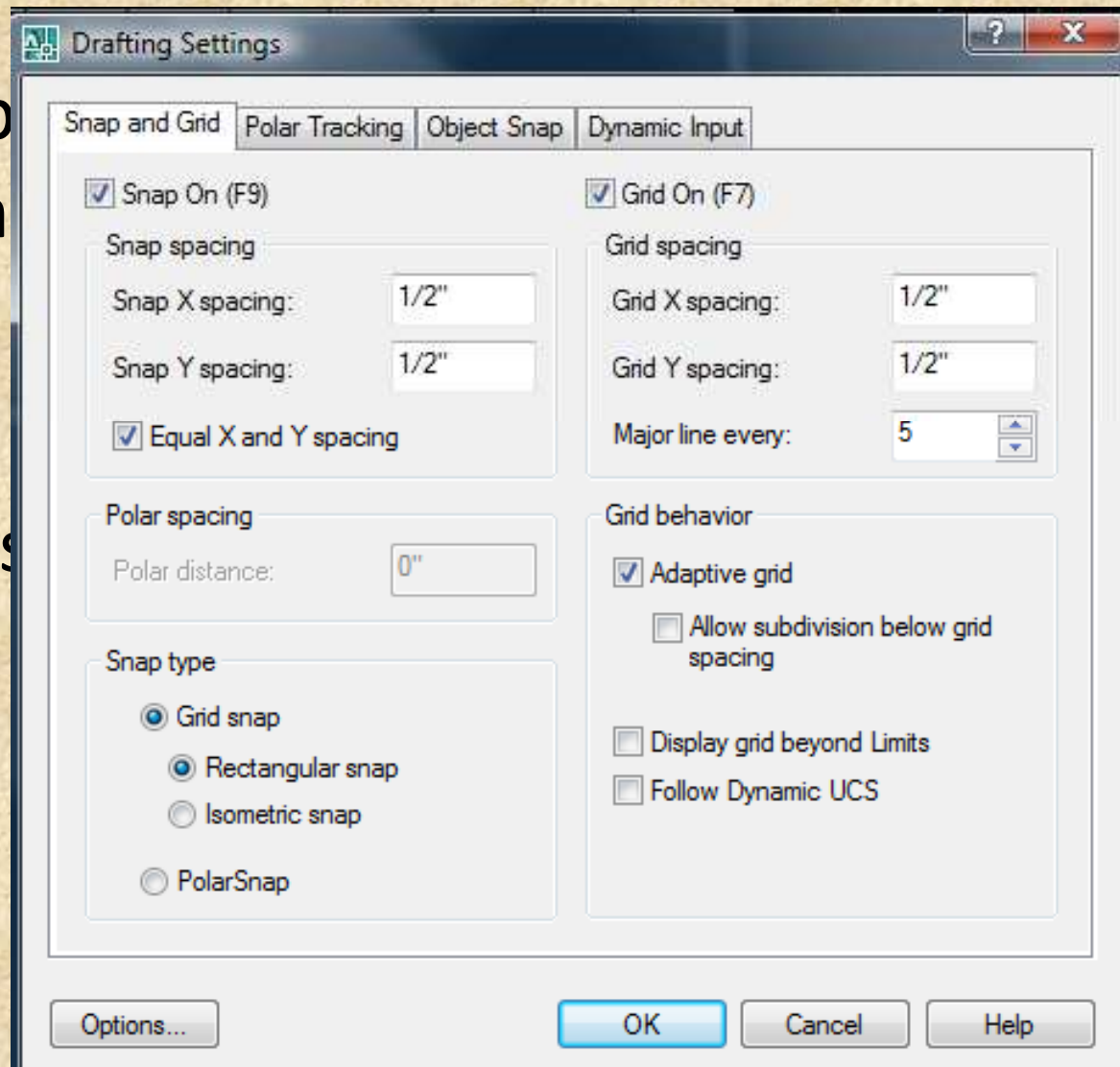
- By clicking Menu item
- By clicking Toolbar icon
- By typing in Command line

Status bar

- Provides information about the current status of our drawing, interface and our settings.
- At status bar you can see coordinates (location) of the cursor in the model space.
- The tab like buttons represents mode settings

Snap & Grid

- Snap of the
- Grid helps

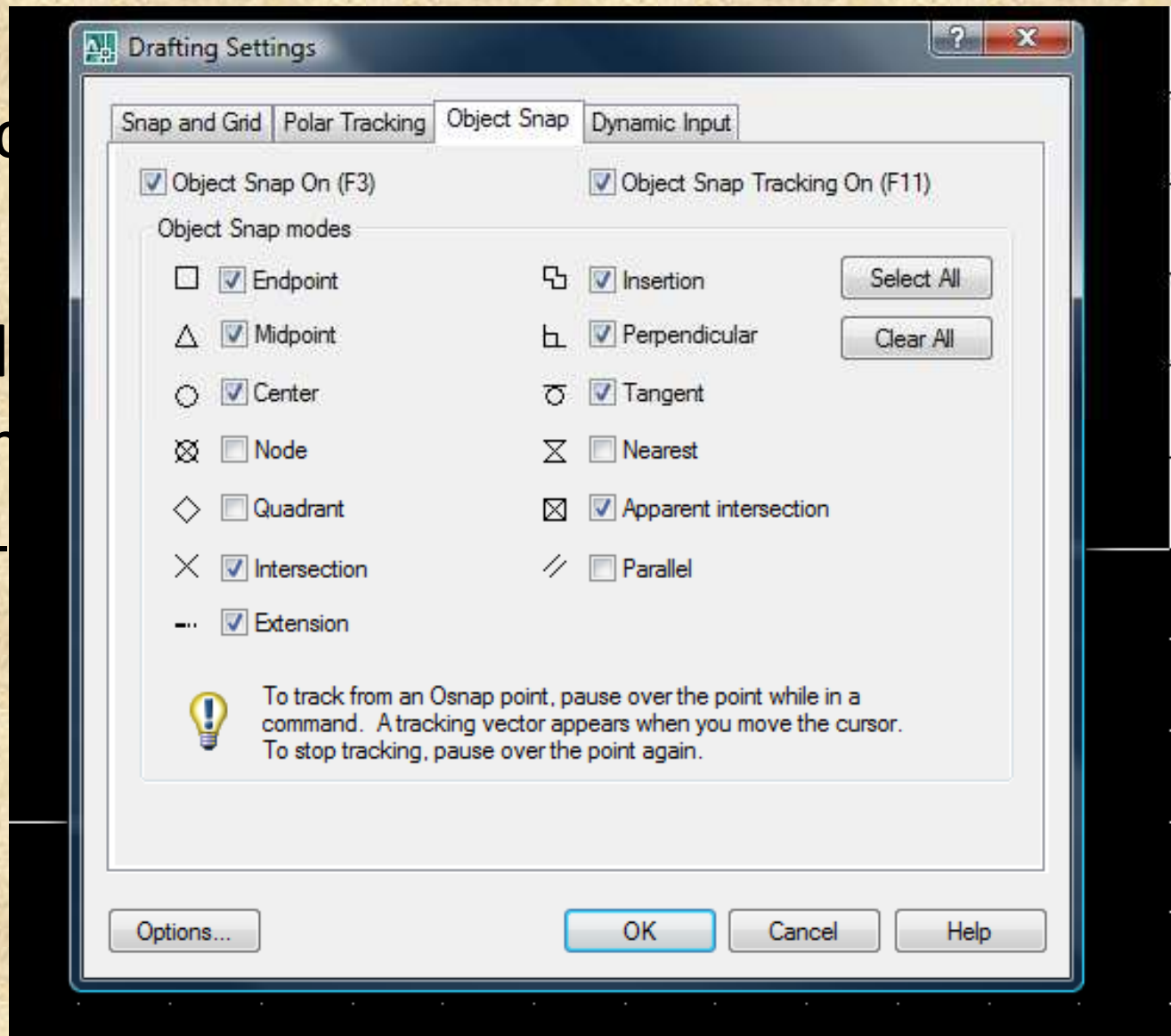


location
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Object Snap

- Add

- All
line



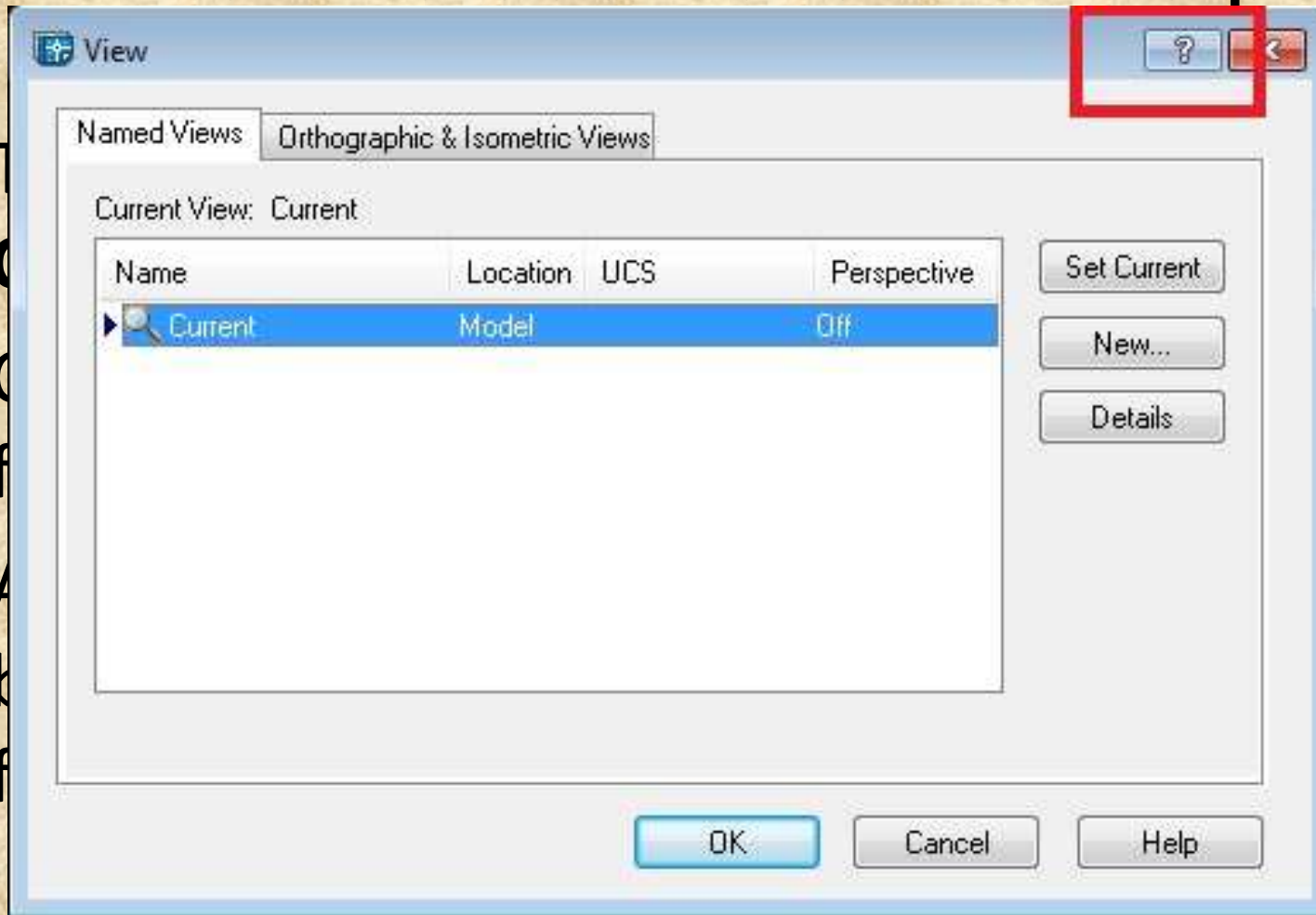
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Options & Settings

- AutoCAD is a very flexible application
- You can change the name of the toolbars, menus, palettes, and even shortcuts of our own choice can be activated.
- The popup menu that comes up with the right click can also be customized.

How to use AutoCAD help



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Pixel vs. Vector

- Pixel line
 - Defined by many dots called pixels (ex. Adobe Photoshop)
- Vector line is **coordinate** based
 - Defined by coordinates of endpoints

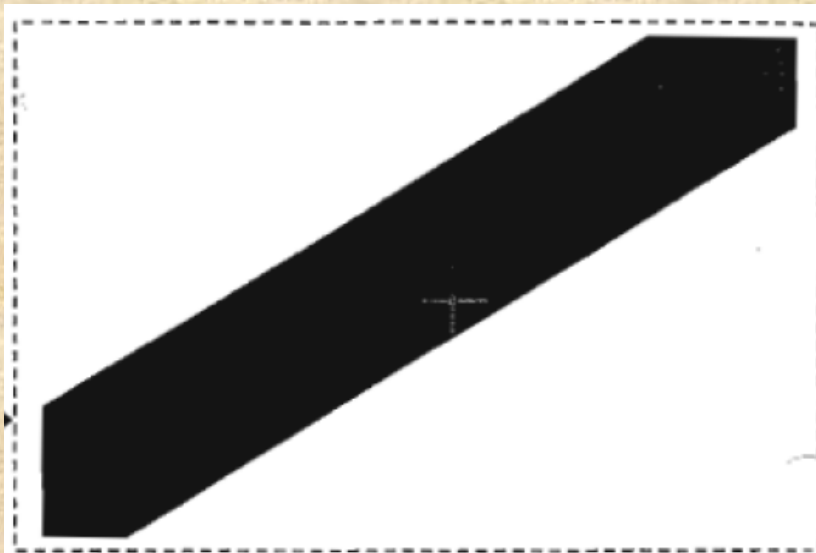


Figure 2-1.1a Vector Line Enlarged 1600%



Figure 2-1.2a Raster Line Enlarged 1600%