Pumping up Productivity in the LAB with Macros One Character at a Time

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CAD Services Manager / Civil Designer

@CADProTips

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I would like to Welcome and Introduce my lab assistants

Rick Ellis - CADapult Software Solutions, Inc., President
http://www.cadapult-software.com/

R.K. McSwain - LJA Engineering, Inc., CAD Manager
http://cadpanacea.com/

Paul Munford - Graitec, Application Engineer
http://cadsetterout.com/

Class summary

In this class you will gain knowledge to create custom macros that apply to your business needs and enhance your productivity on designs. You will develop a custom tool palette placing all of your new macros on there for quick access.

Most importantly, you'll be able to **bring back value** to your employer and the **knowledge to help you excel** within your field.

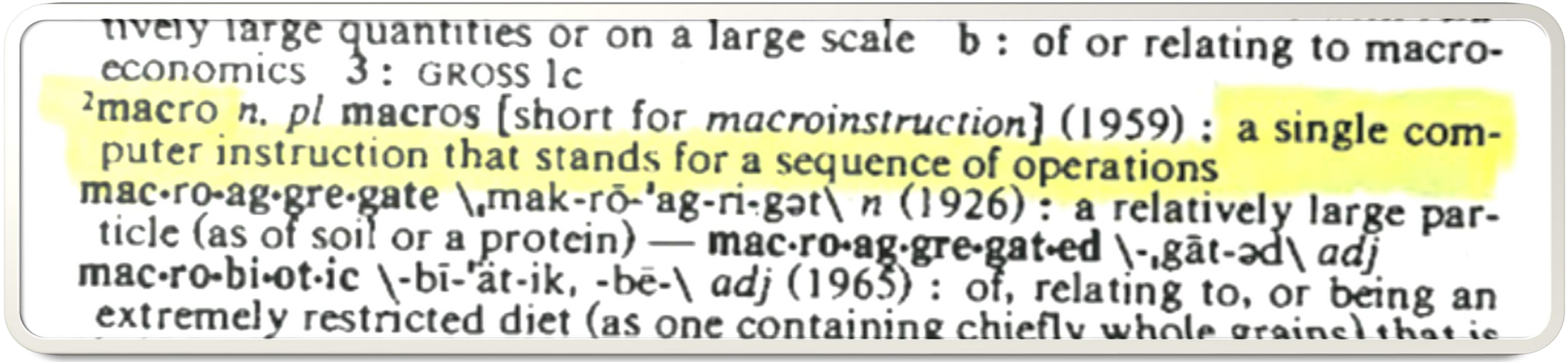
Key learning objectives

At the end of this class, you will be able to:

- Identify, change and create macros.
- Create a tool palette with custom macros enabled.
- Use the action recorder to create macros.
- Use macros to automate multiple tasks

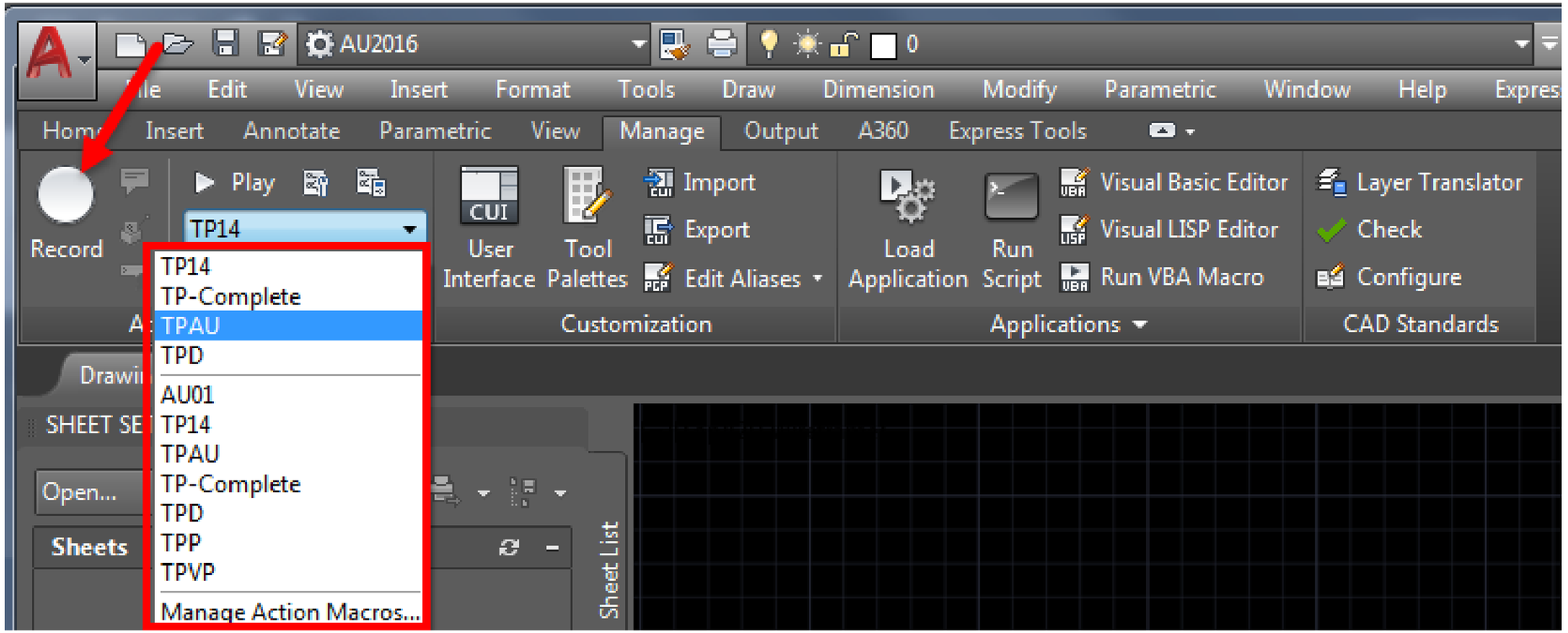
What is a Macro

In AutoCAD macros can be shortcuts to a series of commands to help make the process of design more efficient.


tively large quantities or on a large scale b : of or relating to macro-
economics 3 : GROSS 1c
²**macro** *n*, *pl* **macros** [short for *macroinstruction*] (1959) : a single com-
puter instruction that stands for a sequence of operations
mac·ro·ag·gre·gate \ˌmak-rō-'ag-ri-gət\ *n* (1926) : a relatively large par-
ticle (as of soil or a protein) — **mac·ro·ag·gre·gat·ed** \-ˌgāt-əd\ *adj*
mac·ro·bi·ot·ic \-bī-'ät-ik, -bē-\ *adj* (1965) : of, relating to, or being an
extremely restricted diet (as one containing chiefly whole grains) that is

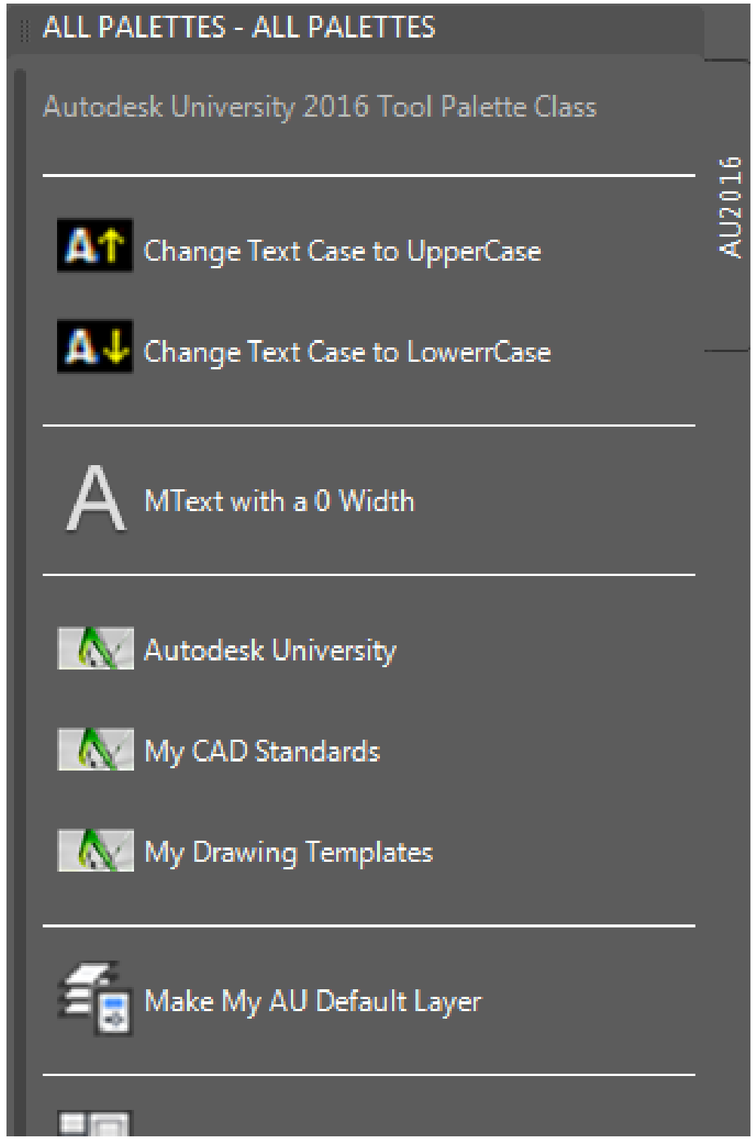
The Action Recorder

The action recorder is simply a tool to record macros for later use. AutoCAD will read the commands you input then save as a macro



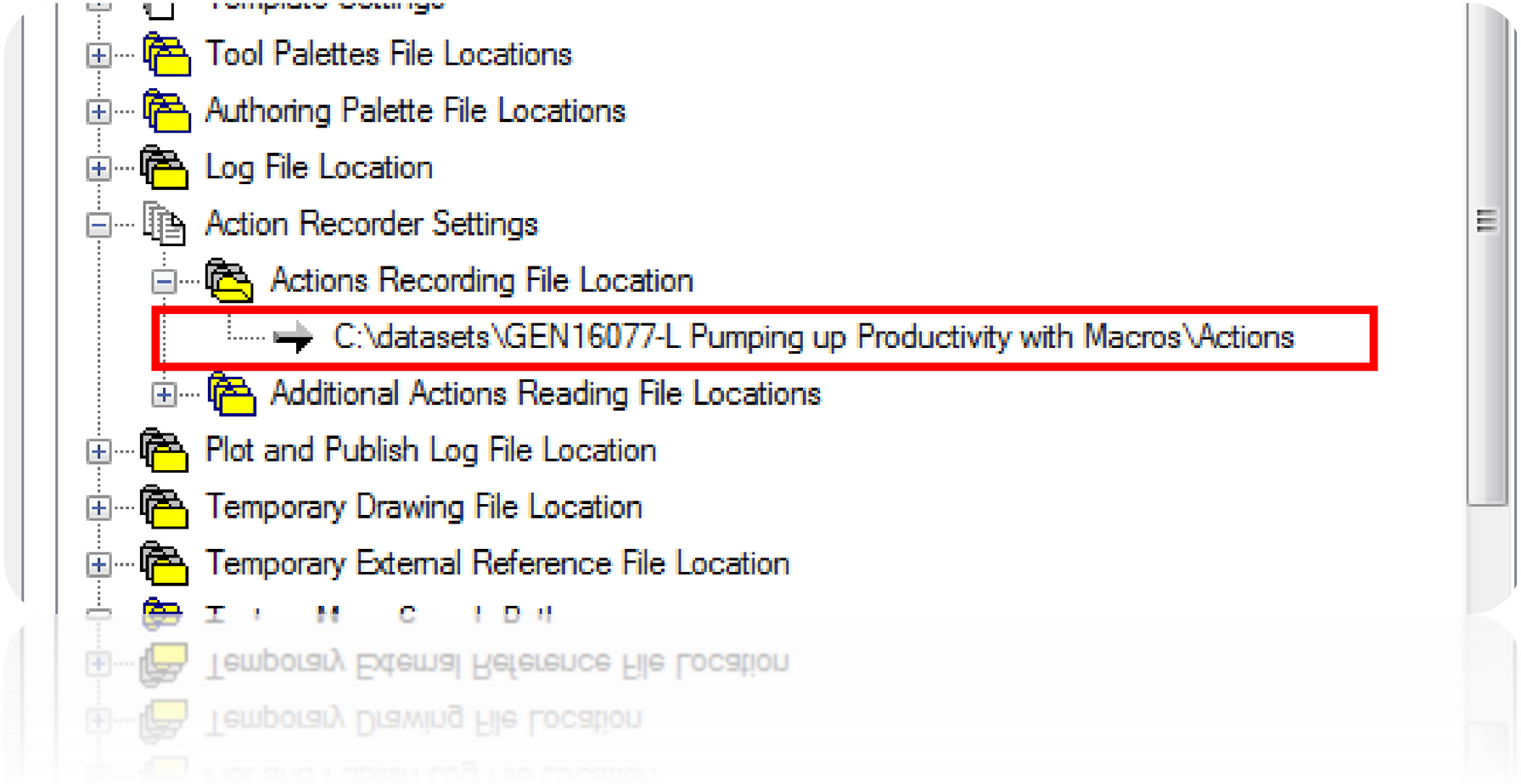
Tool Palettes

Tool Palettes provide one of the quickest way to increase productivity without programming. A tool palette is a free-floating tab that you can bring up on screen and keep active while you work in your drawing, so you have quick access to common symbols, commands, and most any other tool you need to complete the design. Adding macros to palettes can increase productivity.



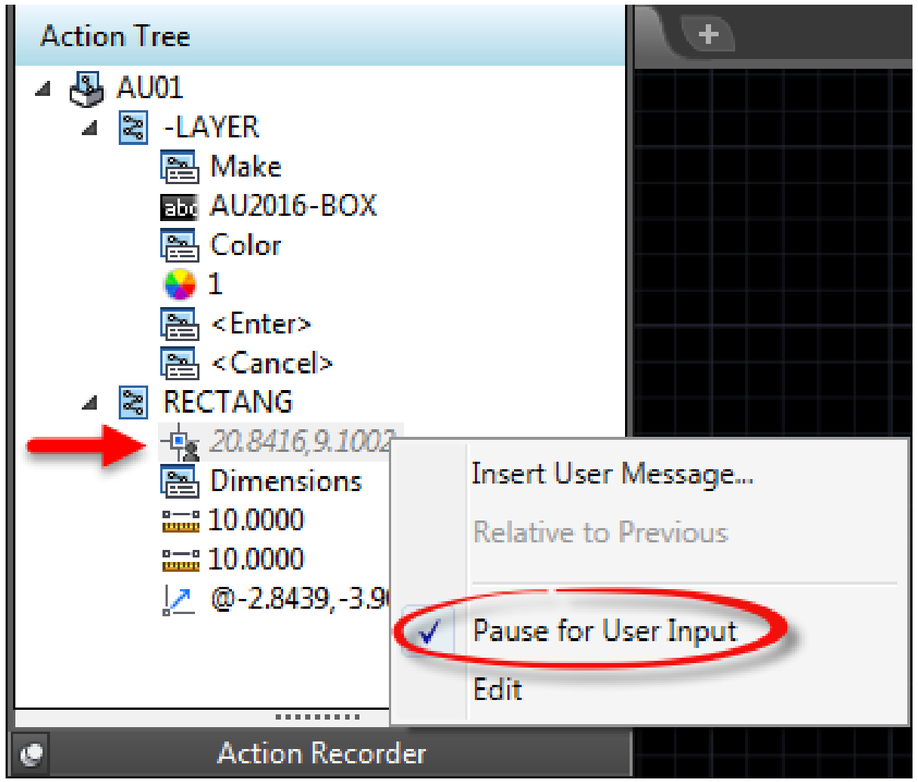
Exercise 1

Setting you Action Recorder Path in AutoCAD



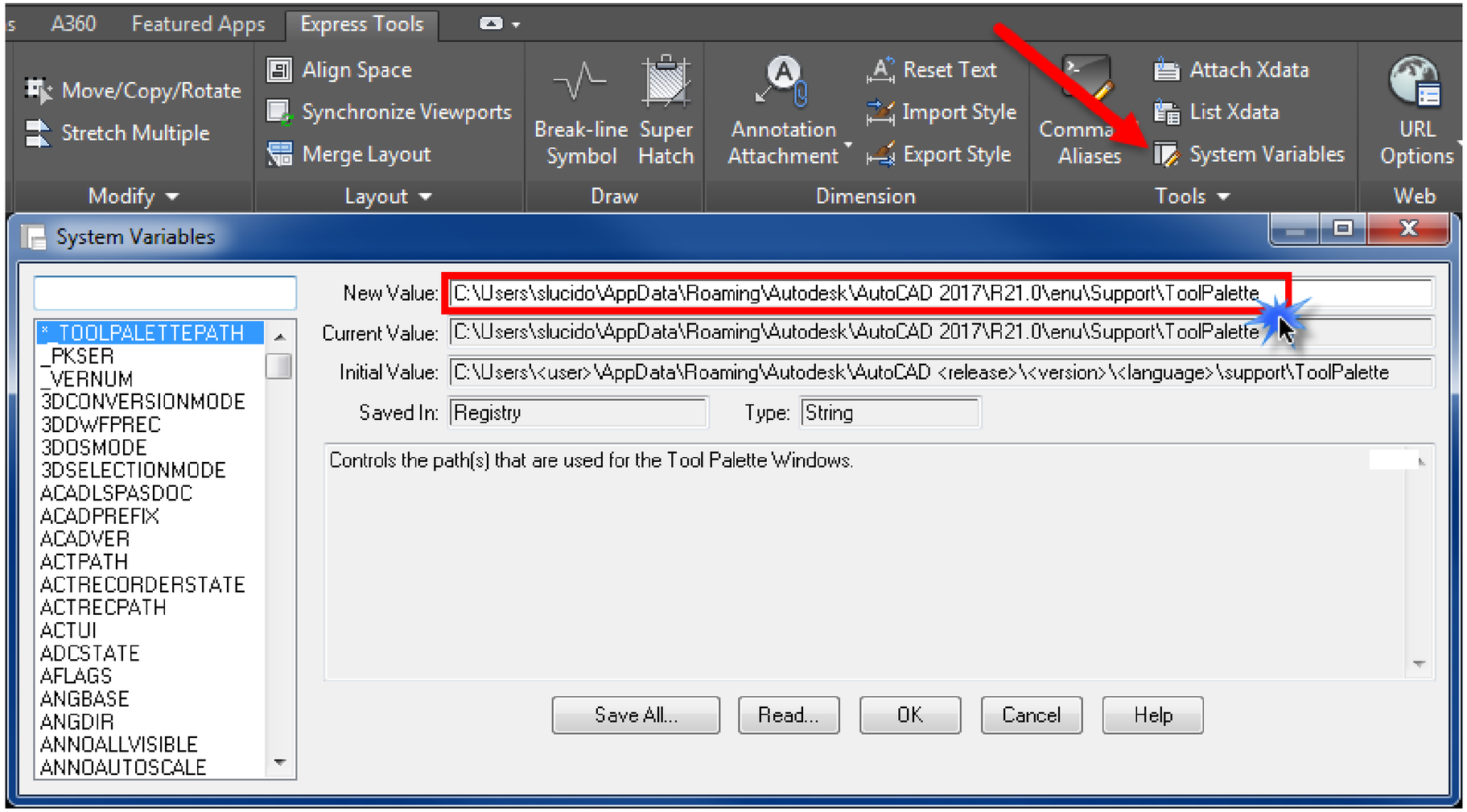
Exercise 2

Drawing a 10 x 10 Box with the Action Recorder



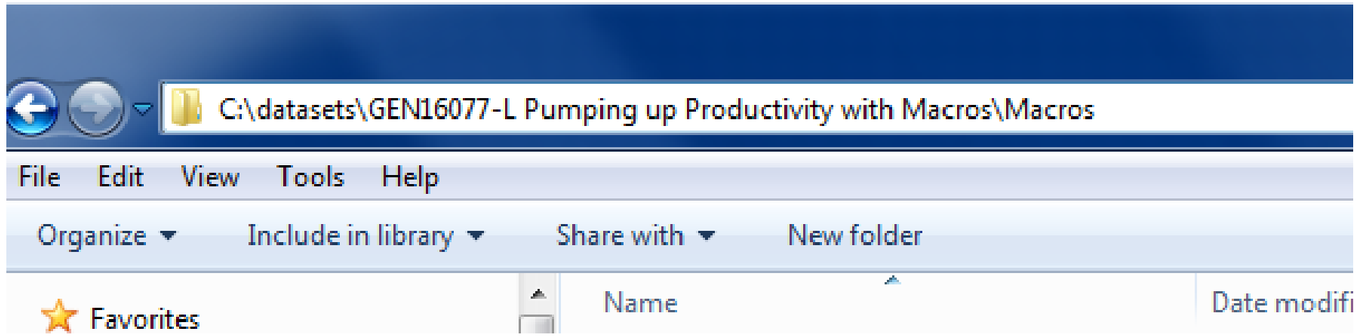
Exercise 3

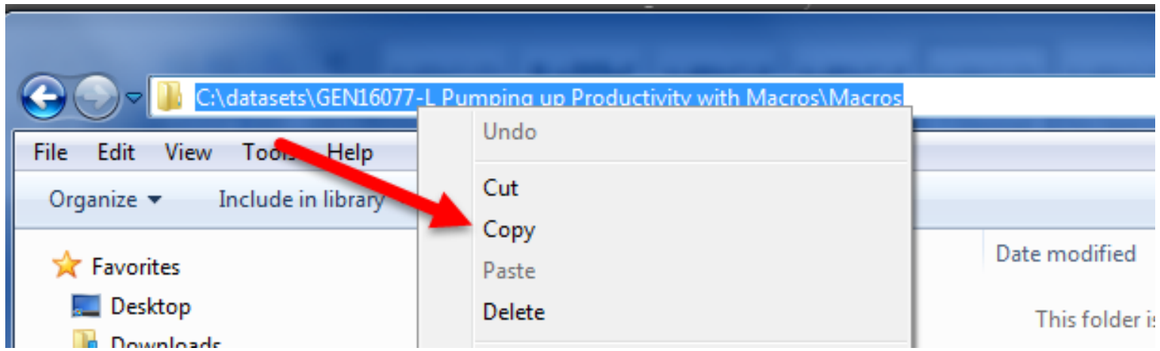
Modifying the Tool Palette Path with a Macro



Exercise 4

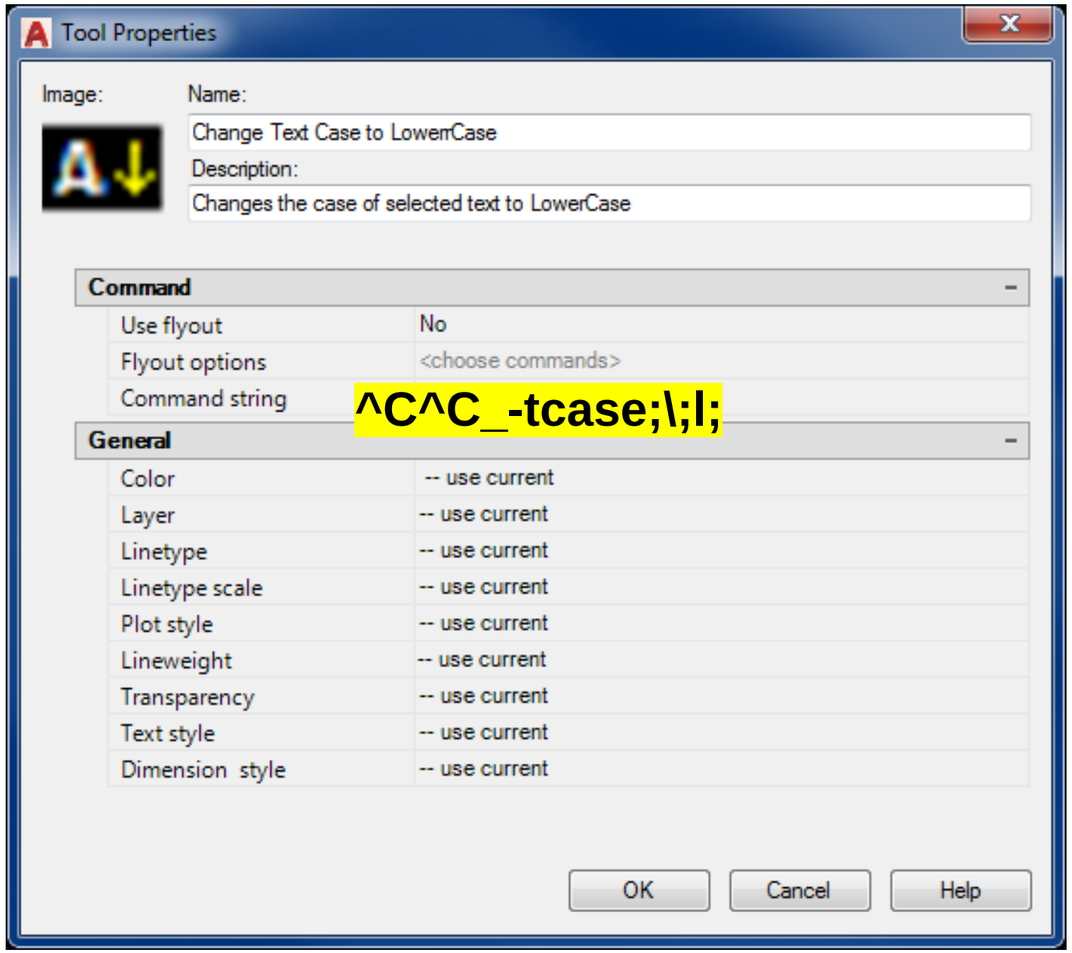
Setting up your blank AU palette with the Action Recorder





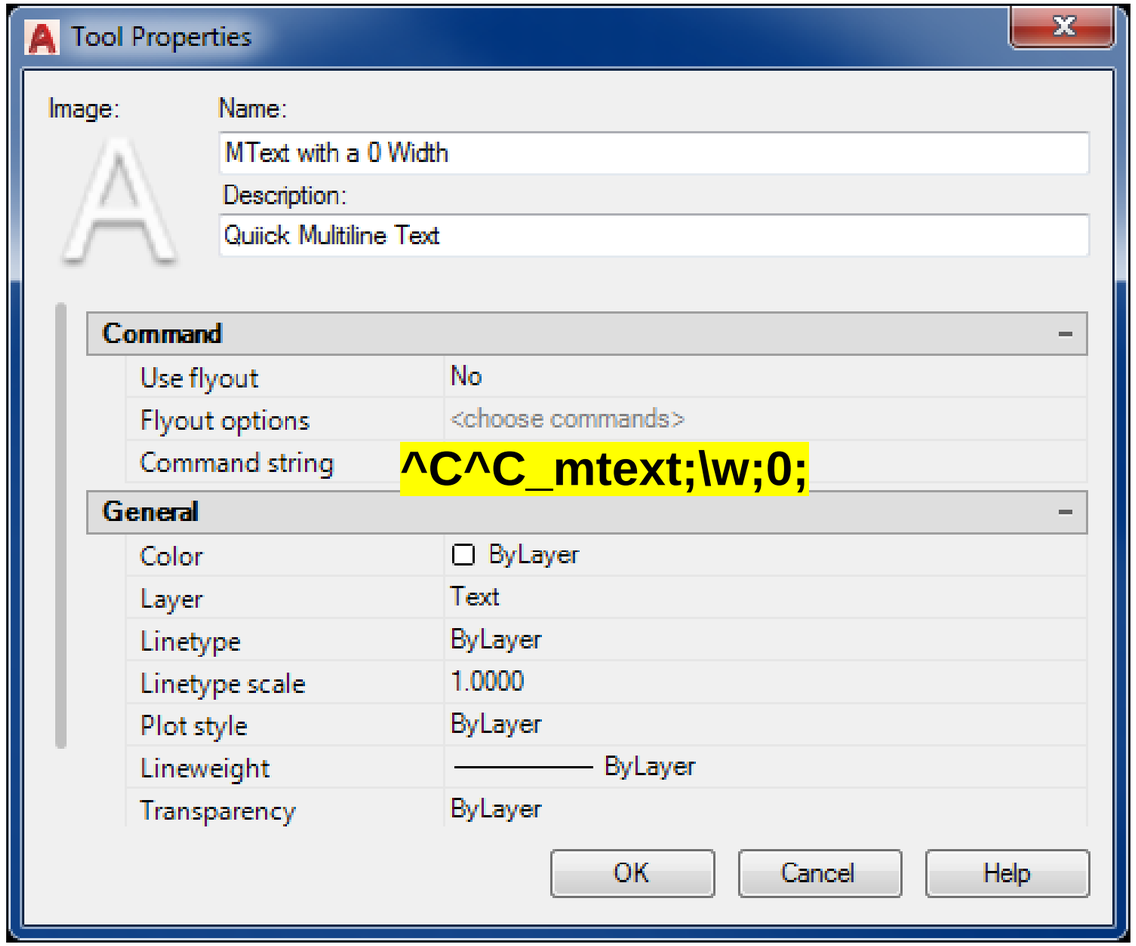
Exercise 5

Creating a Macro to Change Text Case



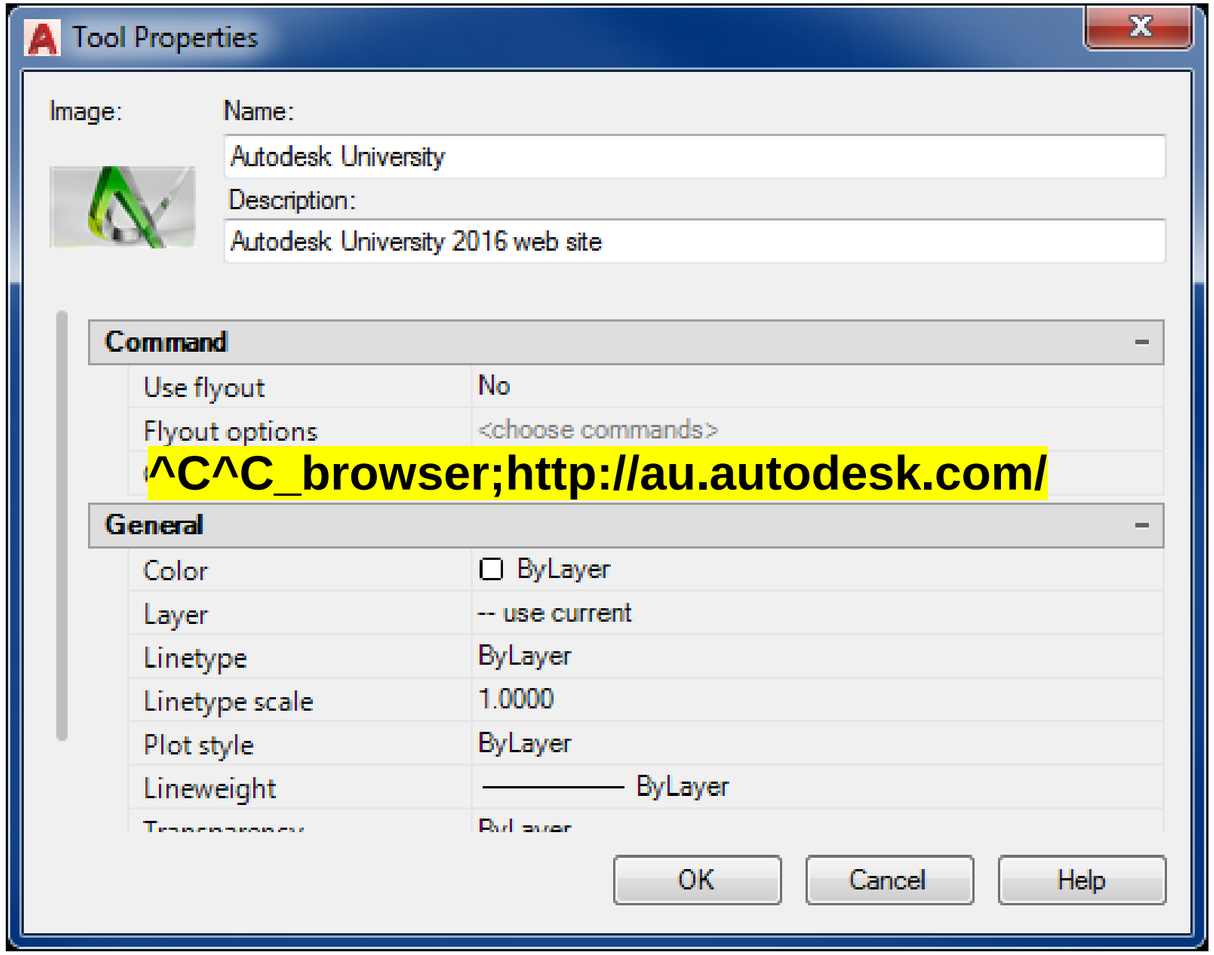
Exercise 6

Quick Mtext



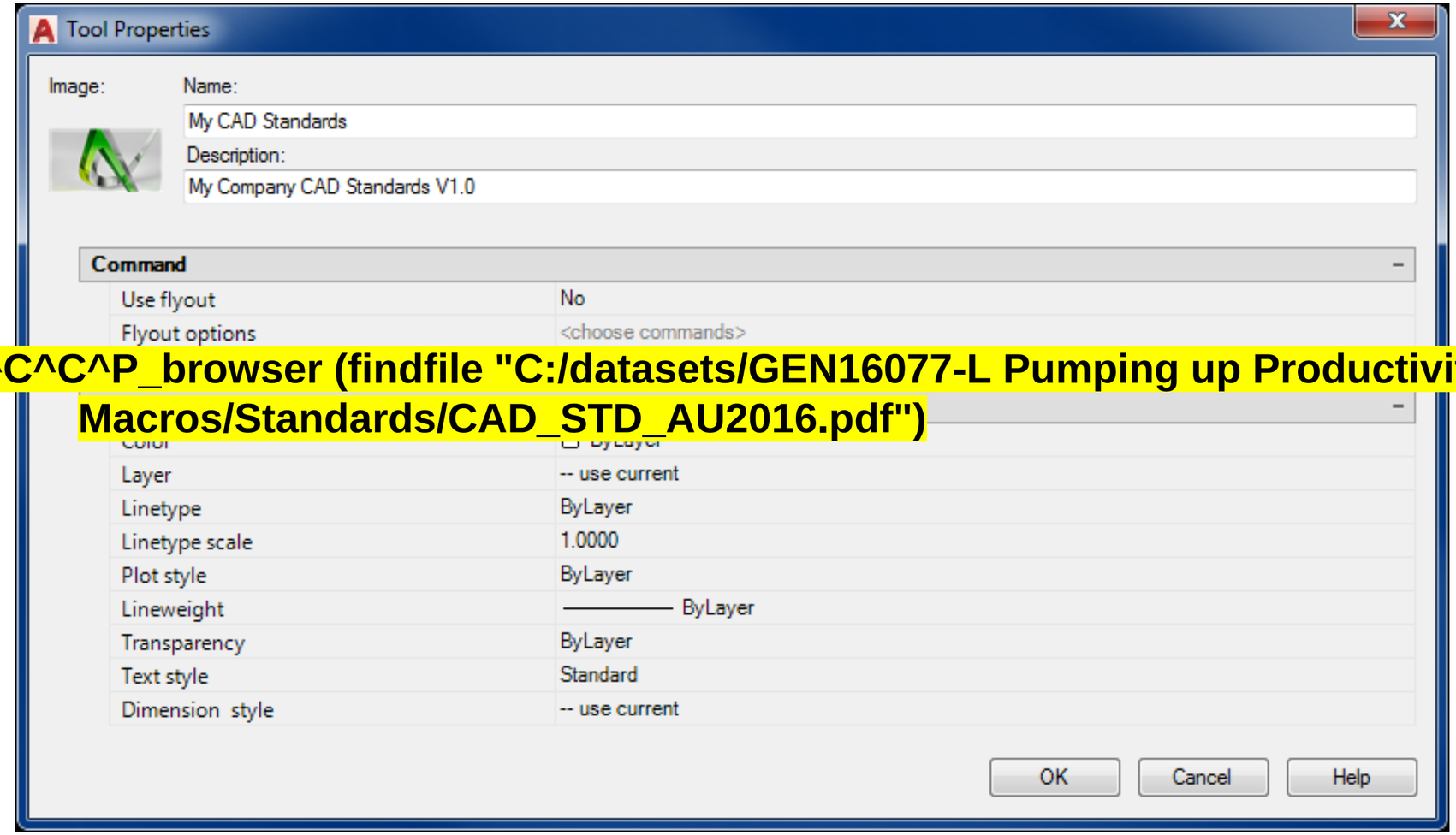
Exercise 7

Open up a Web Page with a Macro



Exercise 8-1

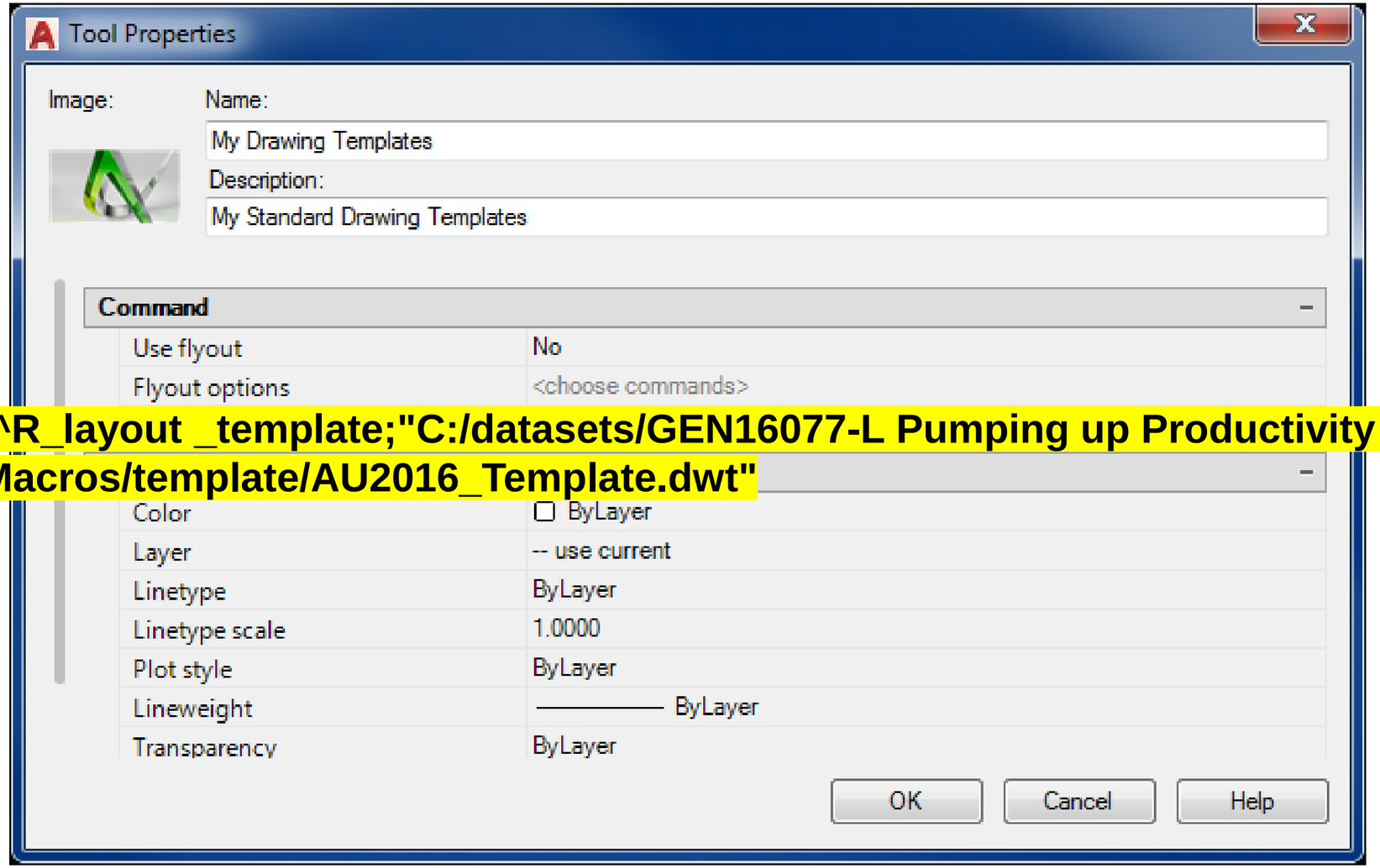
Open up a PDF file with a Macro



^C^C^P_browser (findfile "C:/datasets/GEN16077-L Pumping up Productivity with Macros/Standards/CAD_STD_AU2016.pdf")

Exercise 8-2

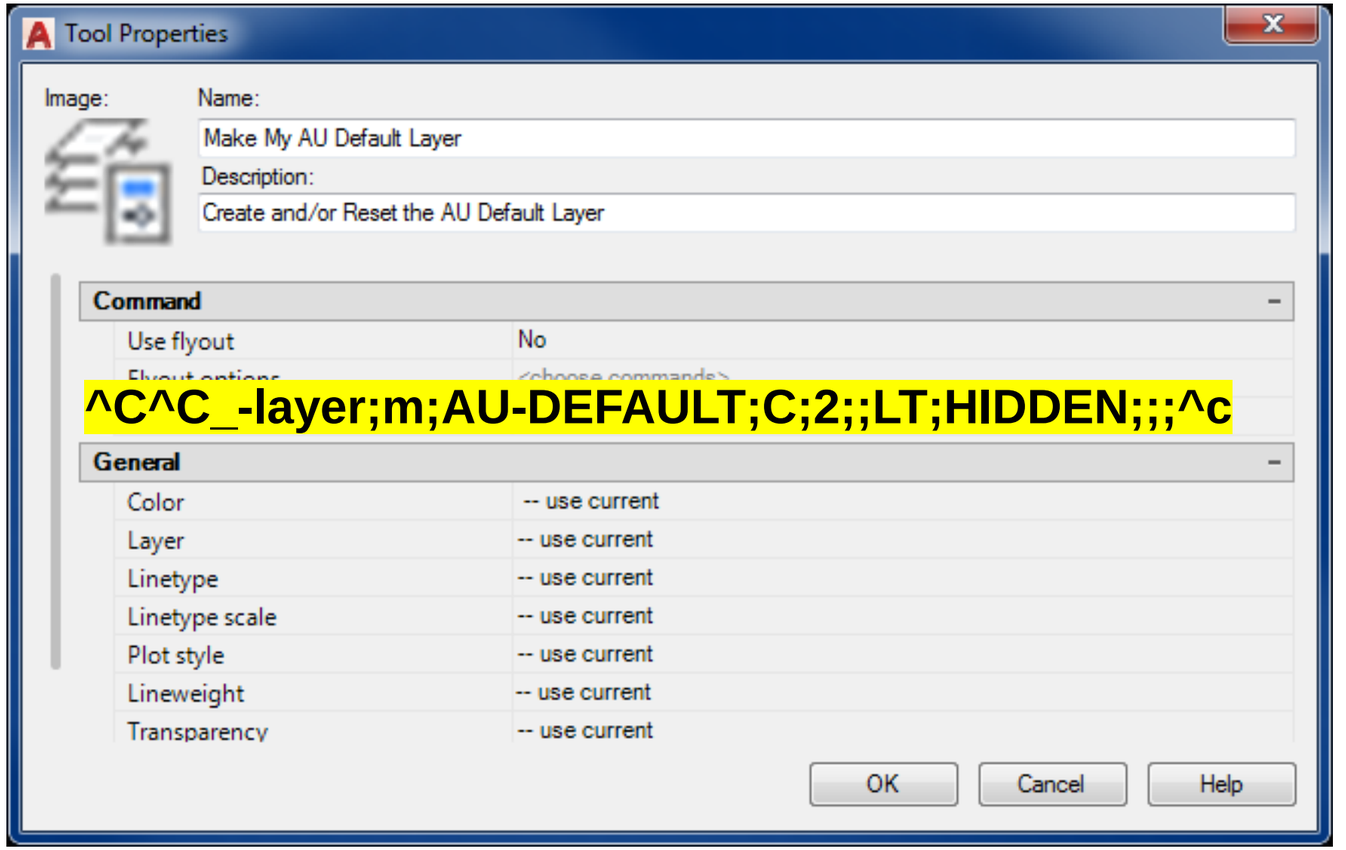
Open up a Template with a Macro



^C^C^R_layout _template;"C:/datasets/GEN16077-L Pumping up Productivity with Macros/template/AU2016_Template.dwt"

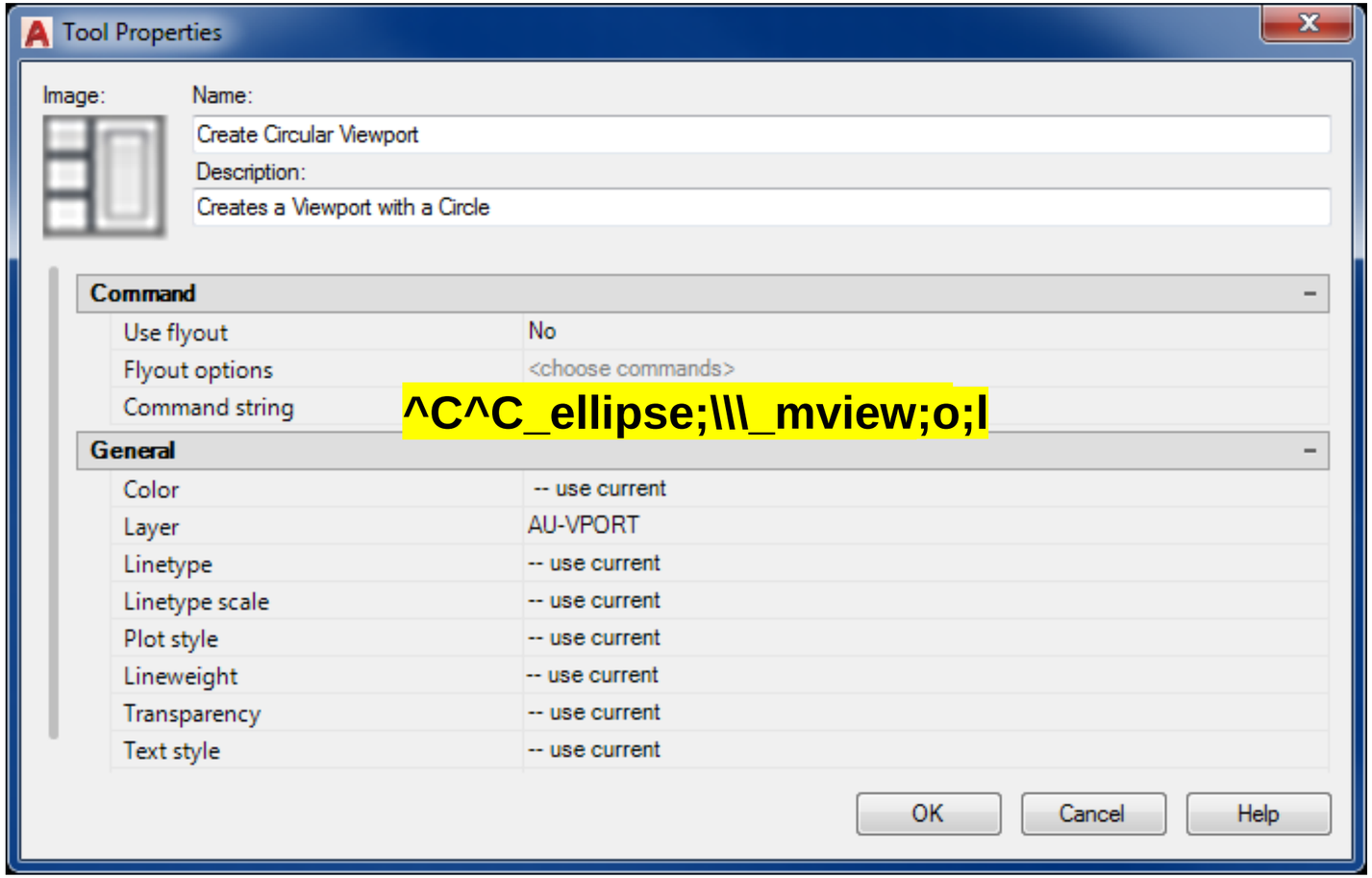
Exercise 9

Create / Reset a Layer with a Macro



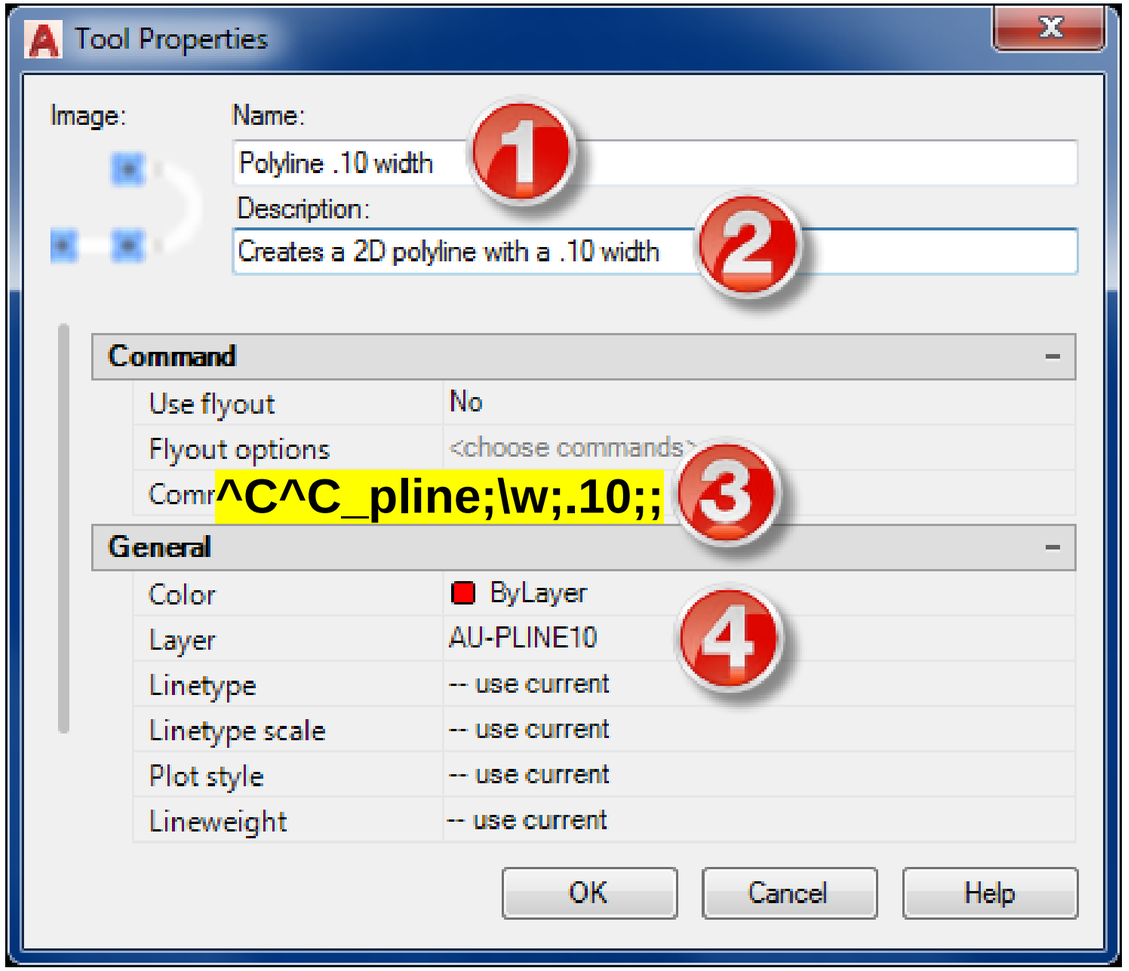
Exercise 10

Create Floating Viewports – The Ellipse



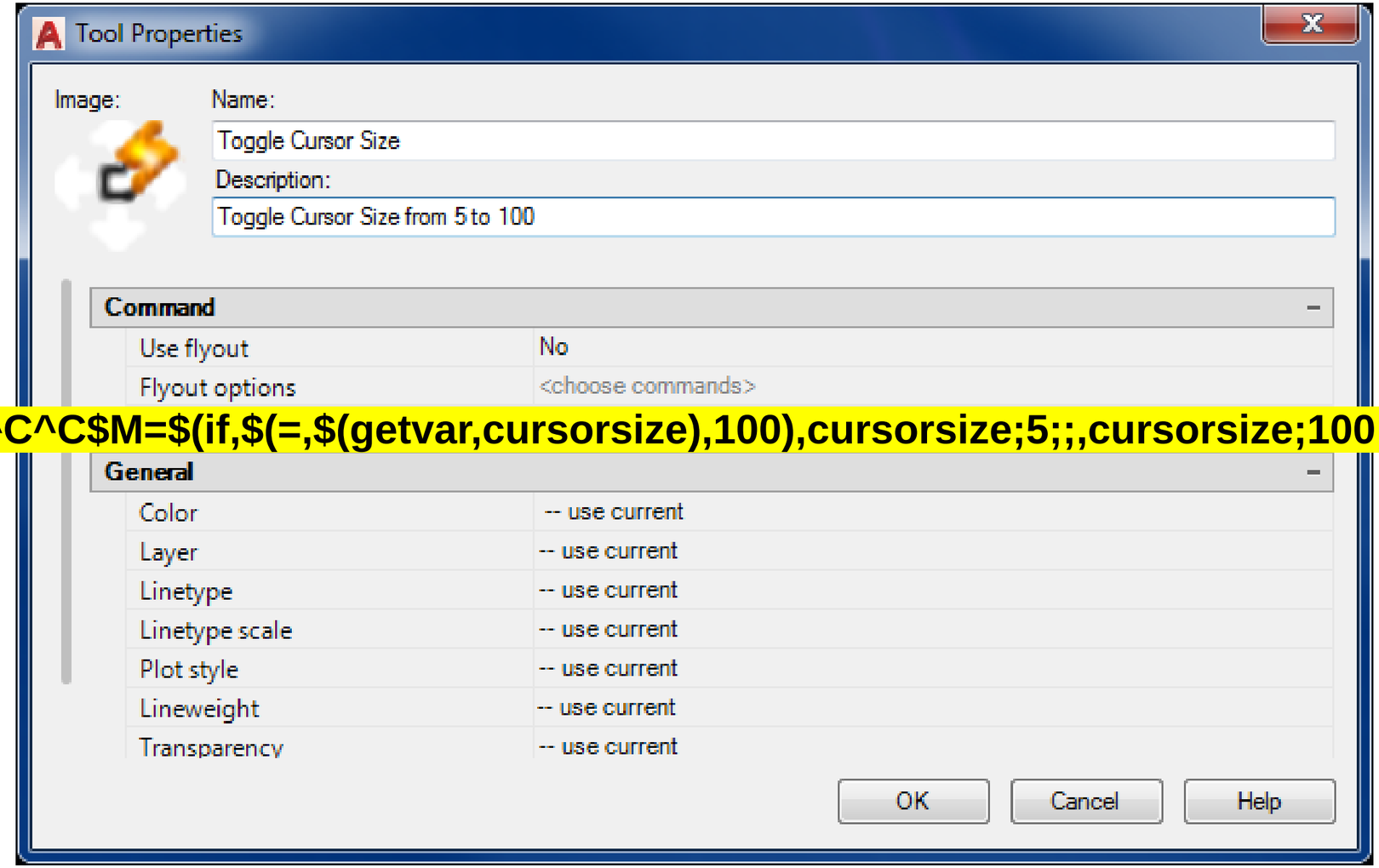
Exercise 11

Draw a Polyline on a layer with a specific width



Exercise 12

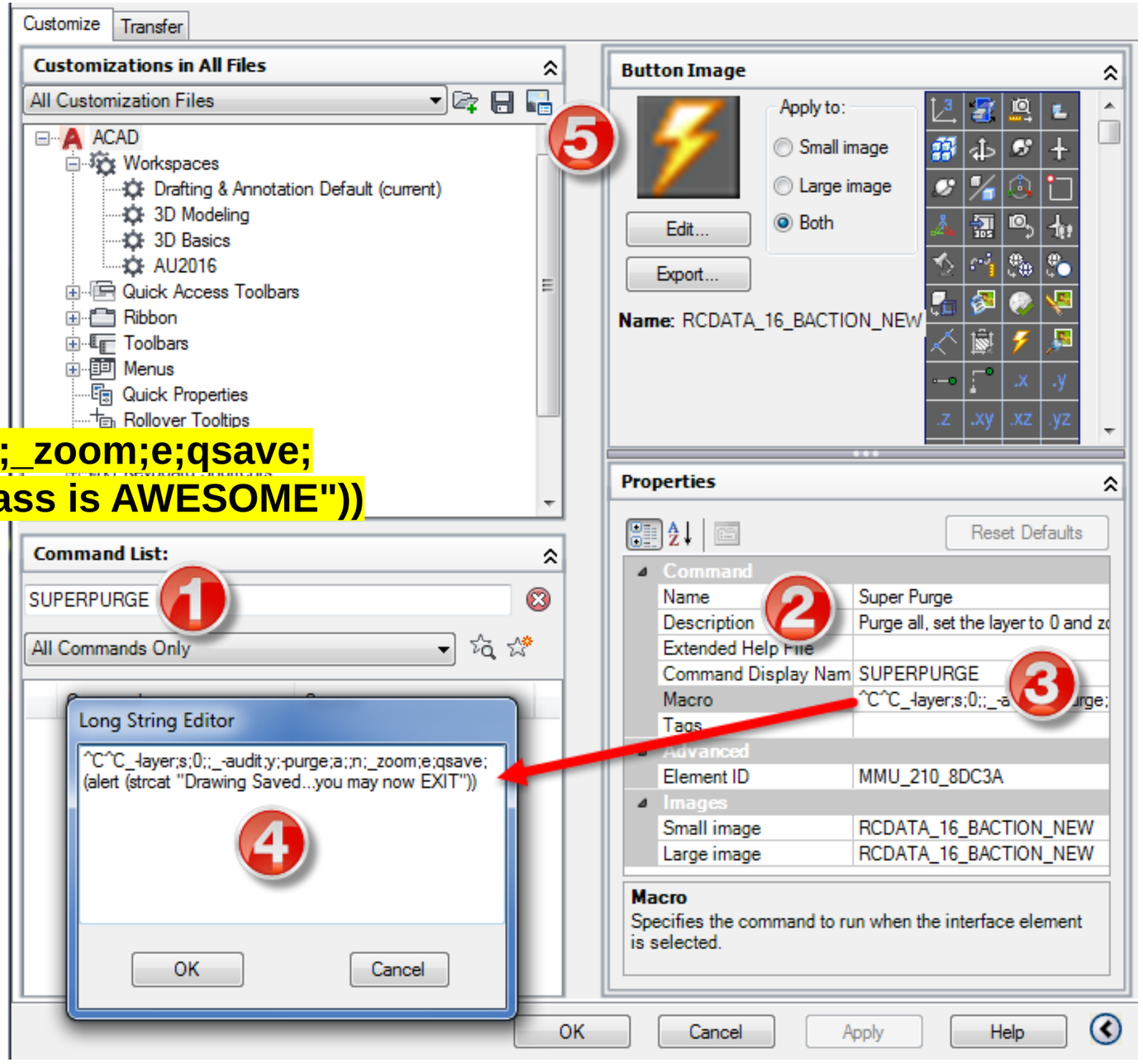
Using DIESEL to Toggle Cursor Size



Exercise 13

Super Purge

^C^C_-layer;s;0;;_-audit;y;-purge;a;;n;_zoom;e;qsave;
(alert (strcat "Drawing Saved...This Class is AWESOME"))



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Thank You!

My Name is Sam Lucido and **I am CADproTips**!

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