

Solid Edge ST4 Update Training (User Interface)

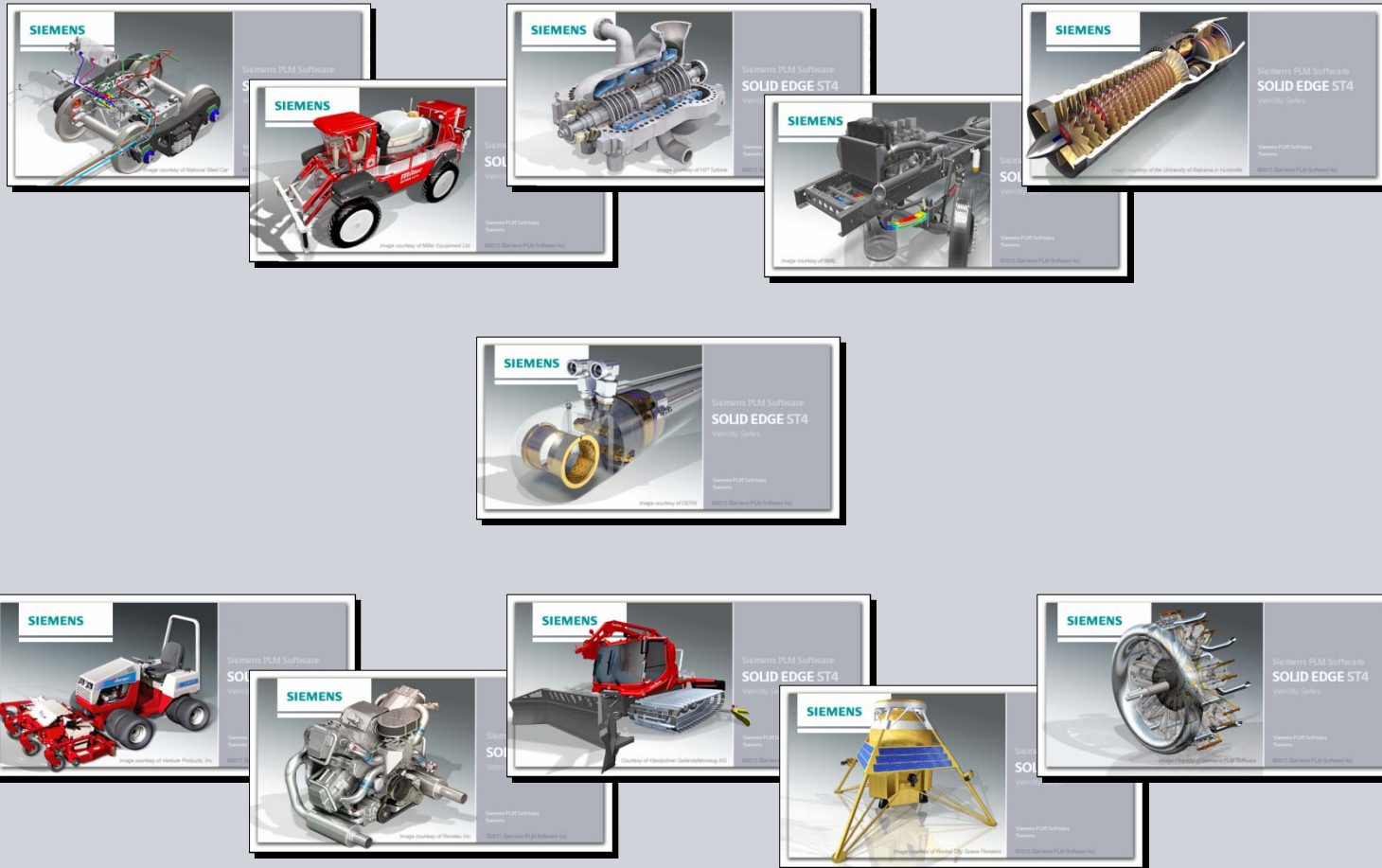


Presented By: Steve Webb

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Revolving Splash Screens



Application Look Improvements

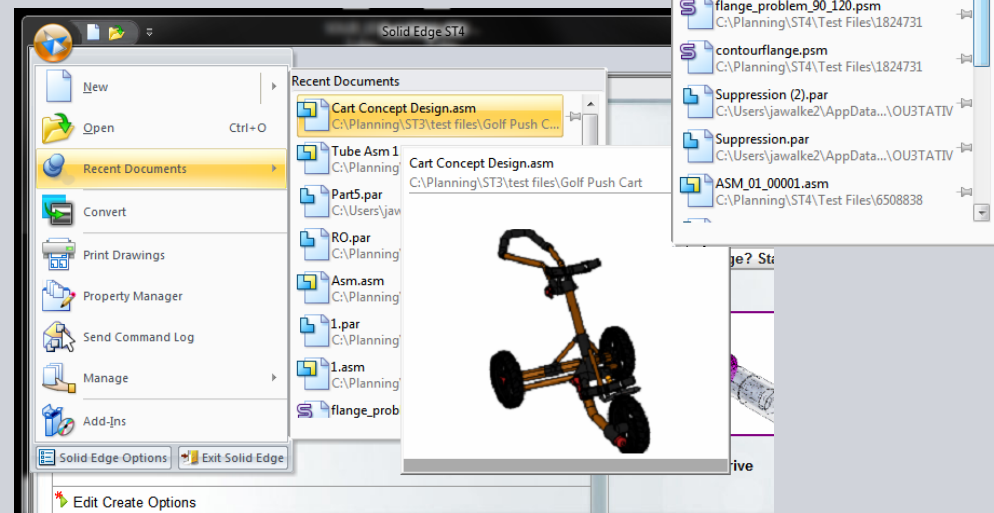
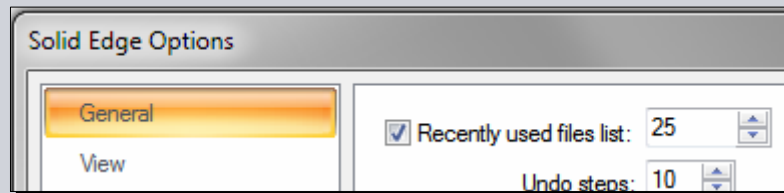
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Most Recently Used



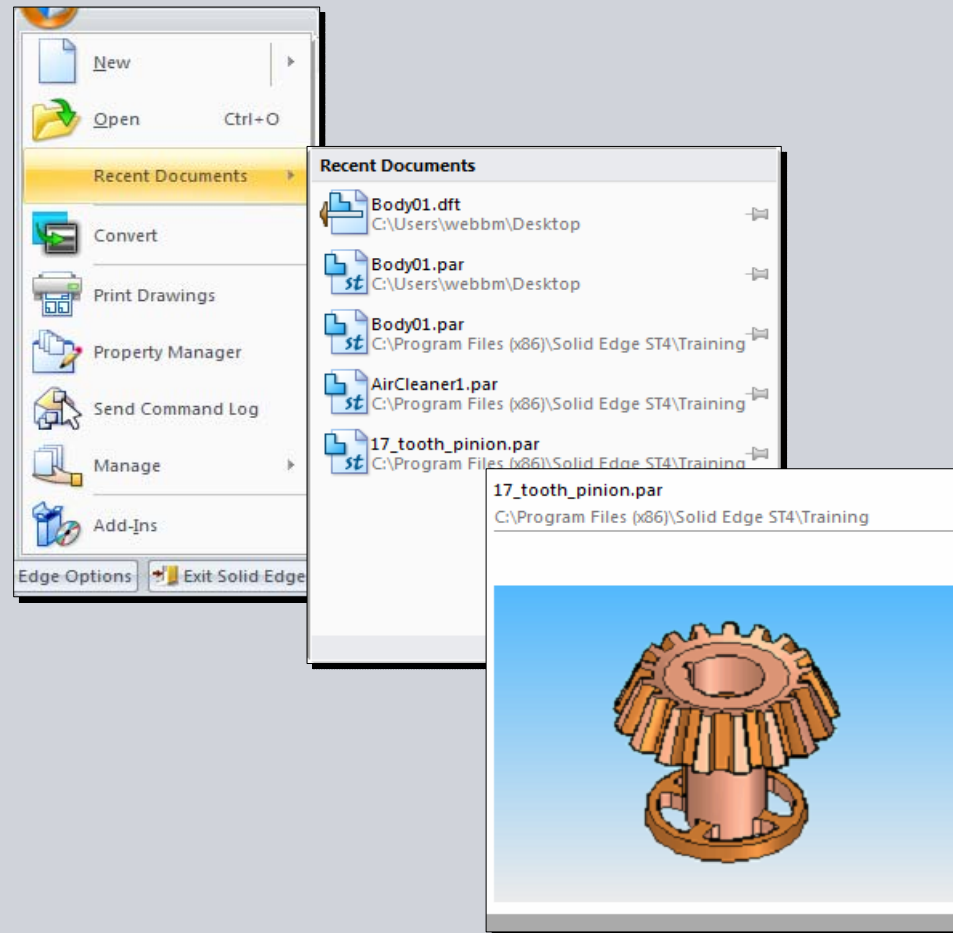
Most Recently Used - Documents

- Prior to ST4 we only remembered nine documents. Now we support up to 100. Default is 25
- Tooltip with LARGE Preview Supports Pinning



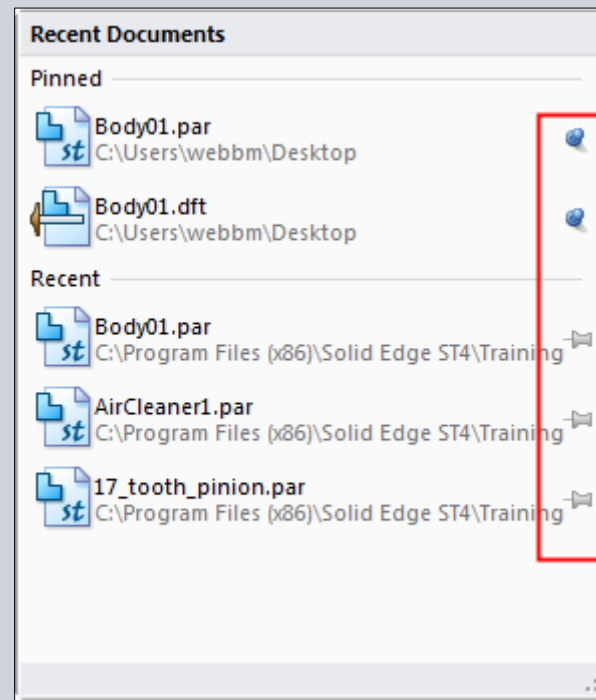
Most Recent Used - Documents

- Recent Documents
 - When pausing over a menu item, the preview tooltip displays



Most Recently Used - Documents

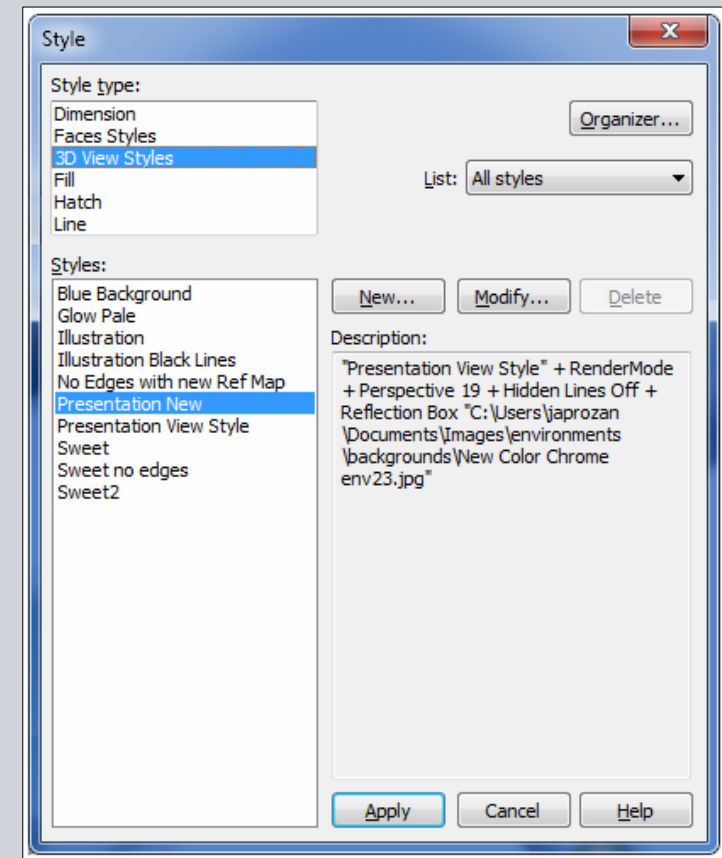
- Recent Documents – Pinned
 - When an item is pinned, it becomes a permanent item on the Most Recently Used list



Application Look Improvements

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- Replaced the drop list with a list that is always open to reduce mouse clicks and user-searching
- The most-recently-used “Style type” is remembered between dialog sessions
 - When the Styles dialog opens, the last-used Style type is selected
 - In ST3, the last-used type is remembered if an object is selected in the view, but not remembered if there is no selection

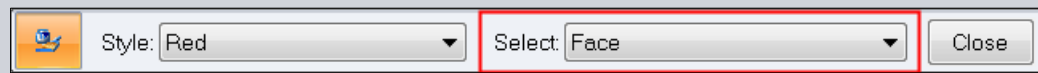


Part Painter



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- Part Painter remembers the most recently used setting on the Select filter
- Each environment remembers its most recently used filter setting for the Part Painter
- Assembly environments use the Part Painter command in the Explode-Render-Animate environment. Assembly and Weldment files have been enhanced to support the matching filter type

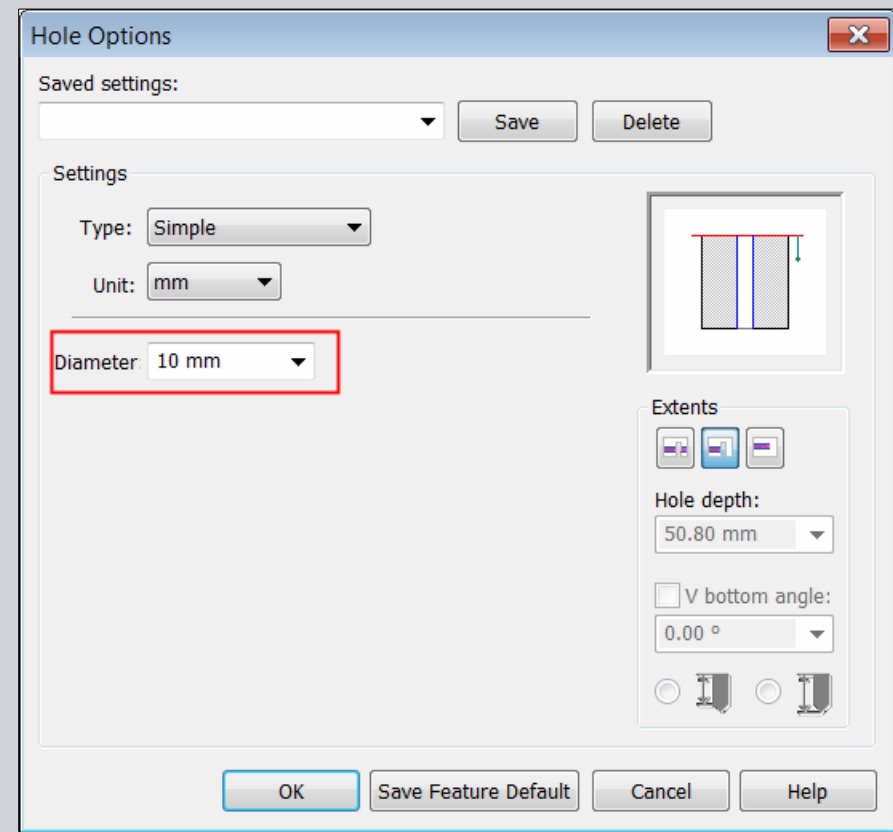


Hole



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- The current default hole settings is based on a common profile size regardless of the document unit type. Hole command defaults to a hole size appropriate to the unit
 - English units – maintain current (.25")
 - Metric units – new size of 10mm
 - Applied in both Synchronous and Ordered holes

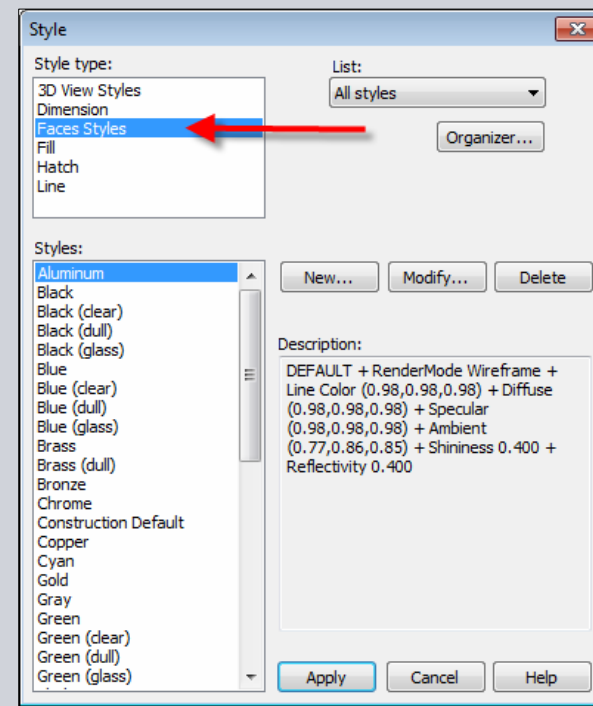


Style (Most Recently Used)



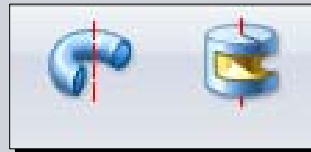
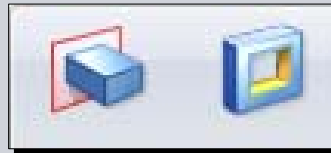
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- When accessing the styles on the View tab of the main tool ribbon, the Most Recently Used Style type is selected
- The same is true in both the Part and Sheet Metal environments.



Extrude/Revolve - Ordered

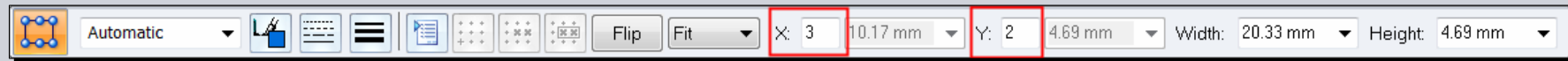
- Following commands maintain their most recently used settings
 - Protrusion/Cutout
 - Extent Step
 - Symmetry settings
 - Revolve Extrude/Cutout
 - Extent Step
 - Symmetry settings





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Pattern - Ordered



- Occurrence values maintained from the most recently used – Ordered and Synchronous pattern
 - Rectangular - default settings is x=3 and y=2
 - Circular – default setting is Count = 4
- Ordered Pattern commands, there is an option for “Smart / Fast” solve
 - In ST3 the behavior was to always default to “fast”
 - In ST4 this has changed to most recently used



- Applies to
 - Rectangular Pattern
 - Circular Pattern
 - Pattern Along Curve

Mirror - Ordered



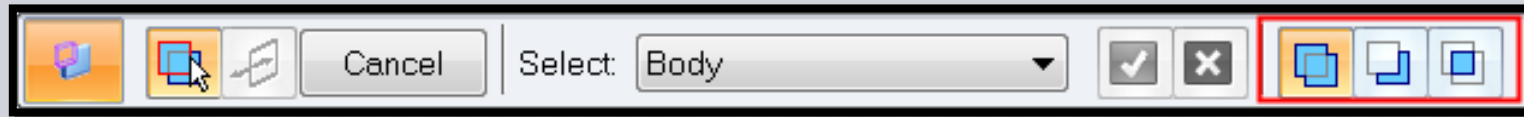
- Ordered Mirror Feature command has an option for “Smart / Fast” solve
 - In ST4 this setting maintains the most recently used setting after initial use
- Applies to both Ordered Part and Sheet Metal

Boolean – Ordered and Sync



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- Boolean command maintains most recently used for the Boolean type
- Applies to Ordered and Synchronous Part and Sheet Metal

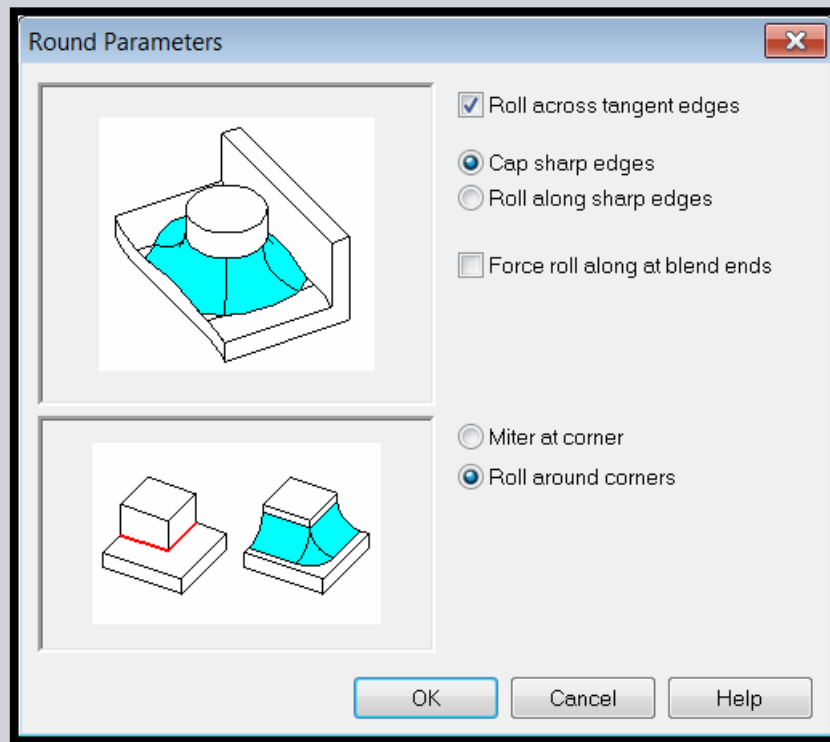




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Round - Synchronous

- Synchronous Round command maintains the most recently used for the round parameters

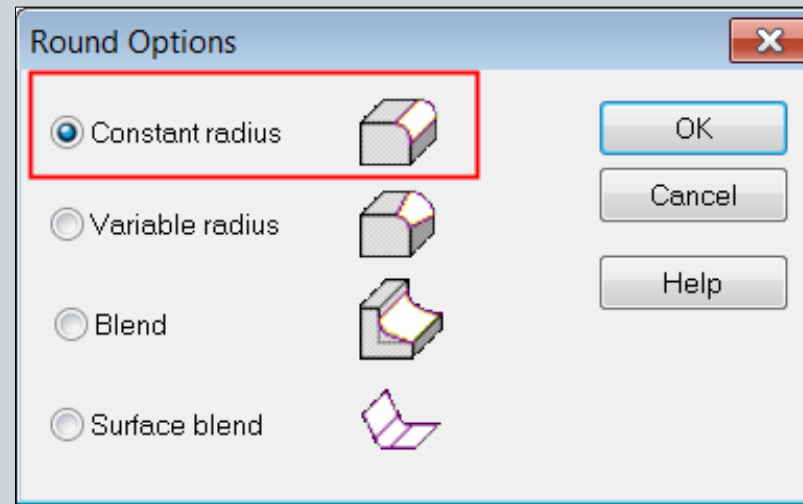




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Round - Ordered

- Ordered Round command maintains the most recently used for the Round Options for the constant radius only

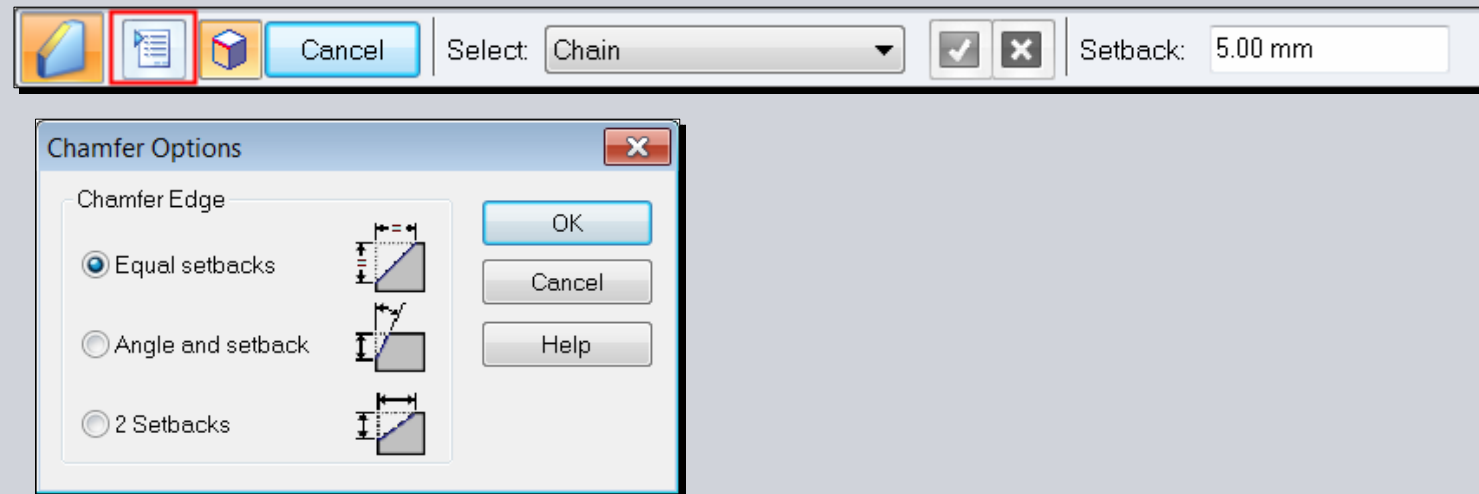


Chamfers - Ordered and Sync



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- Ordered Chamfer command maintains the most recently used for these settings:
 - Chamfer options
 - Select filter type
- Values are interlocked between Synchronous equal setback chamfers and Ordered Chamfer command for the equal setback chamfers





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Flange - Ordered and Sync

- Synchronous and Ordered Flange command has been enhanced to remember the most recently used setting for the following options:
 - Measurement Point
 - Material Side
- These settings have been shared between Synchronous and Ordered Flange commands

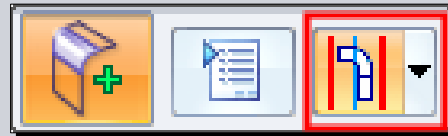




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Bend - Ordered and Sync

- Synchronous and Ordered Bend commands have been enhanced to remember the most recently used setting for Material Side
- These settings are shared between Synchronous and Ordered Bend commands

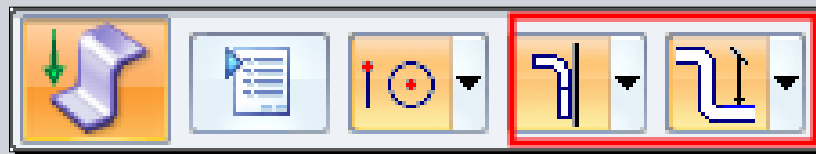




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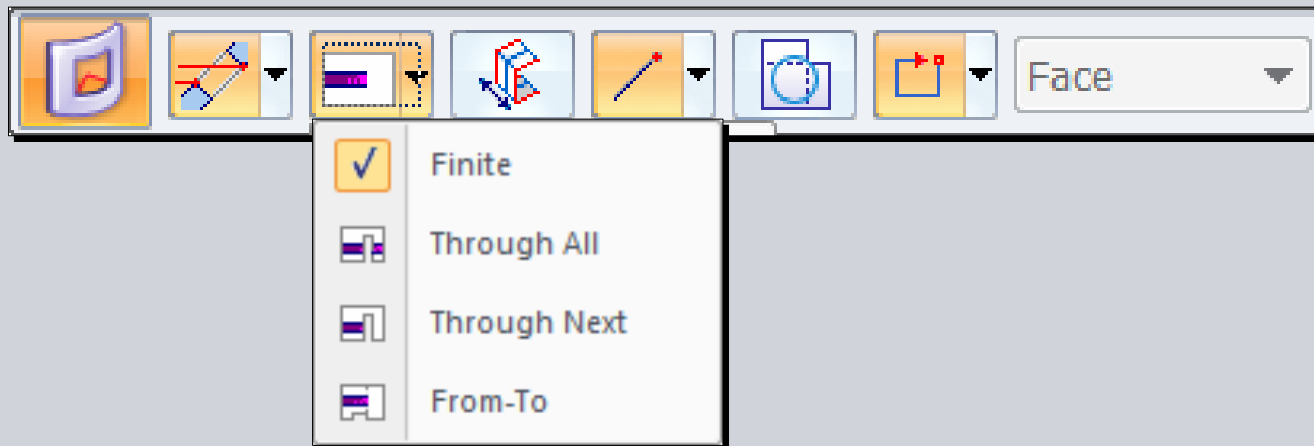
Jog - Ordered and Sync

- Synchronous and Ordered Jog commands have been enhanced to remember the most recently used setting for the following options:
 - Measurement Point
 - Material Side
- These settings are shared between Synchronous and Ordered Bend commands



Cutout - Synchronous

- Synchronous Sheet Metal Cutout maintains the most recent used setting for the extent type

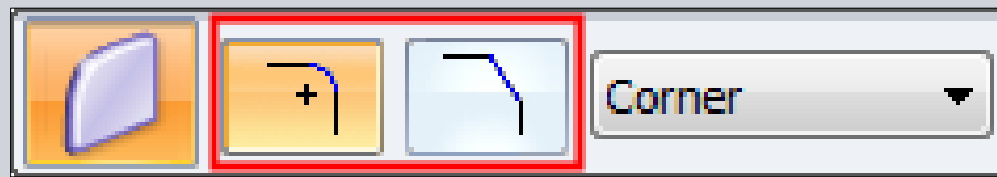


Break Corner – Ordered and Sync



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- Break corner command has been enhanced to remember the most recently used setting for the
 - Chamfer / Round
- Settings for the filter type are remembered for both types
 - If Round uses face filter, then Chamfer uses face filter
- Separate values are maintained for the Chamfer and the Round

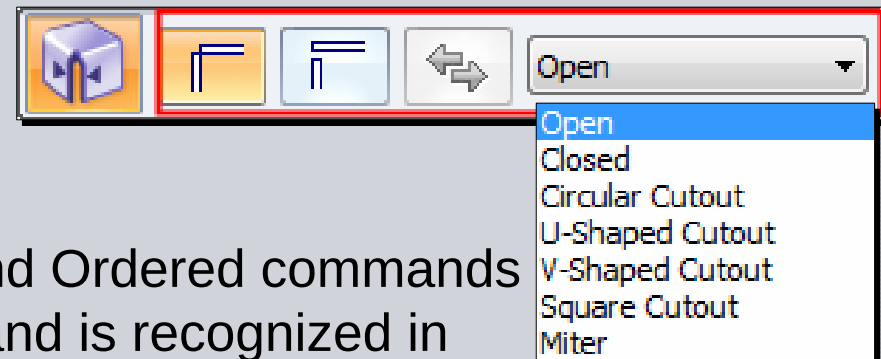


Bend Closed Corner – Ordered and Sync



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- Bend Closed Corner has been enhanced to use the most recently used settings for the following:
 - Closed Corner / Overlapping corner
 - Corner treatment
 - Gap Value
- Save the last values associated with the current corner treatment.
 - Circular and U-Shaped Cutout
 - V-Shaped Cutout
 - Square Cutout
- Shared between the Synchronous and Ordered commands
 - Altering the setting in either command is recognized in the other mode

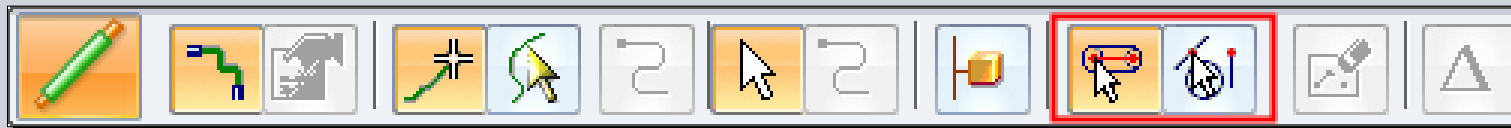


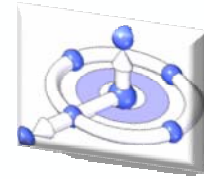


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Wire Path

- Wire command in the Harness environment maintains the most recently used setting for the Circular Cutout / Key Point option
 - Currently defaults to “Circular Cutout Locate”

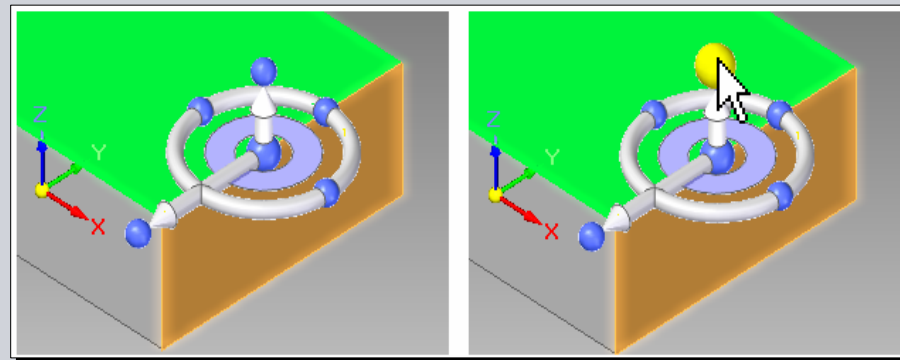
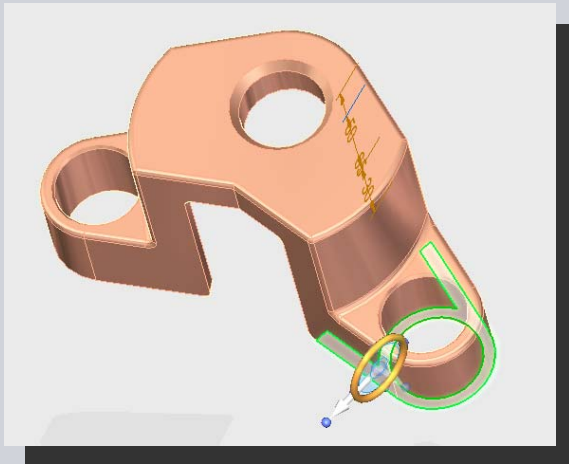




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Steering Wheel

- An enhancement has been made to the Steering Wheel spheres to better communicate the location of elements under the cursor
 - Default sphere color is blue
- Selecting the Steering Wheel emphasizes the knob elements by increasing the size visibility when obscured
 - When the Steering Wheel is located behind the part and the user selects the Steering Wheel, the display is promoted to top of the model

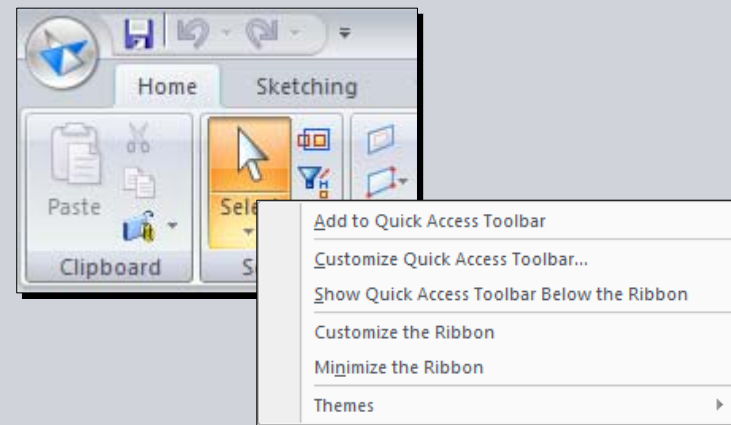
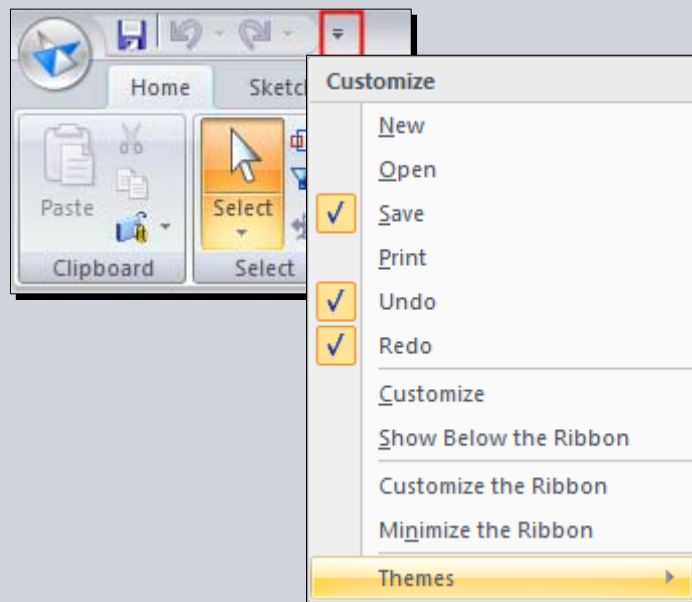


Command Finder

- Command Finder now recognizes and supports these commands/environments:
 - 2D Model
 - Create 2D
 - Cutting Plane Line
 - Broken Out Section
 - Detail Envelope
 - Draw in View
 - Draft View
 - Open Block
 - Frame
 - Simulation Results
 - Motion
 - Edit Model View

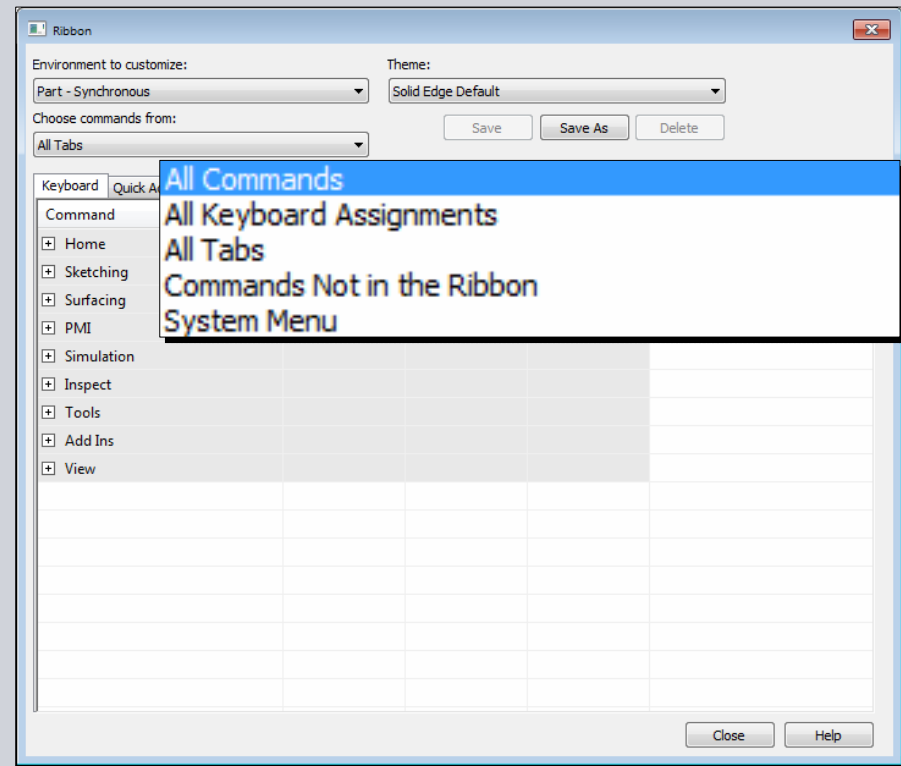
Customization

- Keyboard, Quick Access toolbar, and Radial menu customizations are saved as a theme
- ST3 Ribbon and Radial menu customizations can be migrated to ST4
 - Similarly ST4 Keyboard and Quick Access toolbar customization can be carried forward



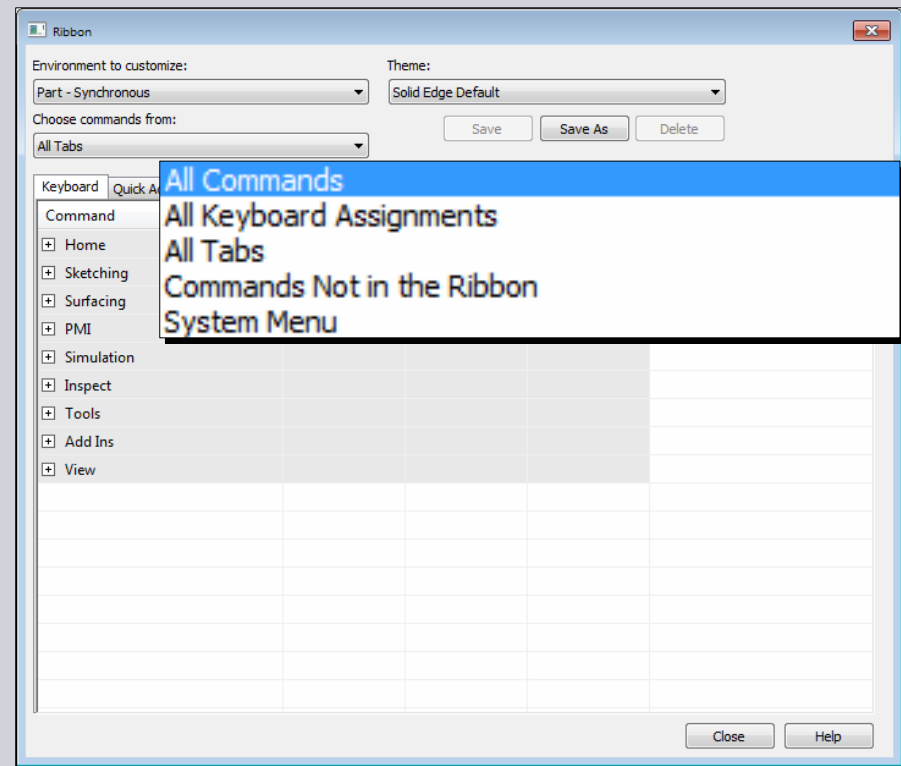
Customization - Keyboard

- Enhanced UI for Keyboard customization
 - All Commands – contains all the commands for the selected environment
 - All Tabs – contains all of the commands displayed on the Ribbon. These commands are shown in a structure that depicts tabs and tab groupings
 - Commands Not in the Ribbon – contains the commands that are not displayed on the ribbon. These commands reside on the System Menu or on Shortcut Menus



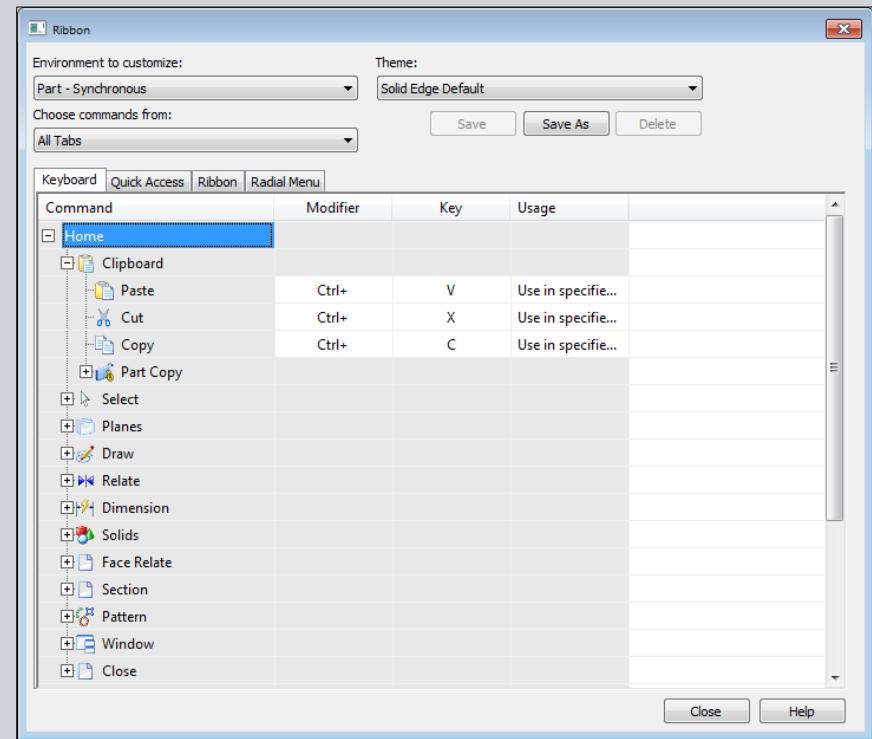
Customization - Keyboard

- Macros – this category display controls macros that have already been customized to the Ribbon, Quick Access toolbar, or Radial Menu
- System Menu – contains the commands available on the System Menu for the selected environment
- All Keyboard Assignments – is a filter that displays all commands that have current keyboard assignments



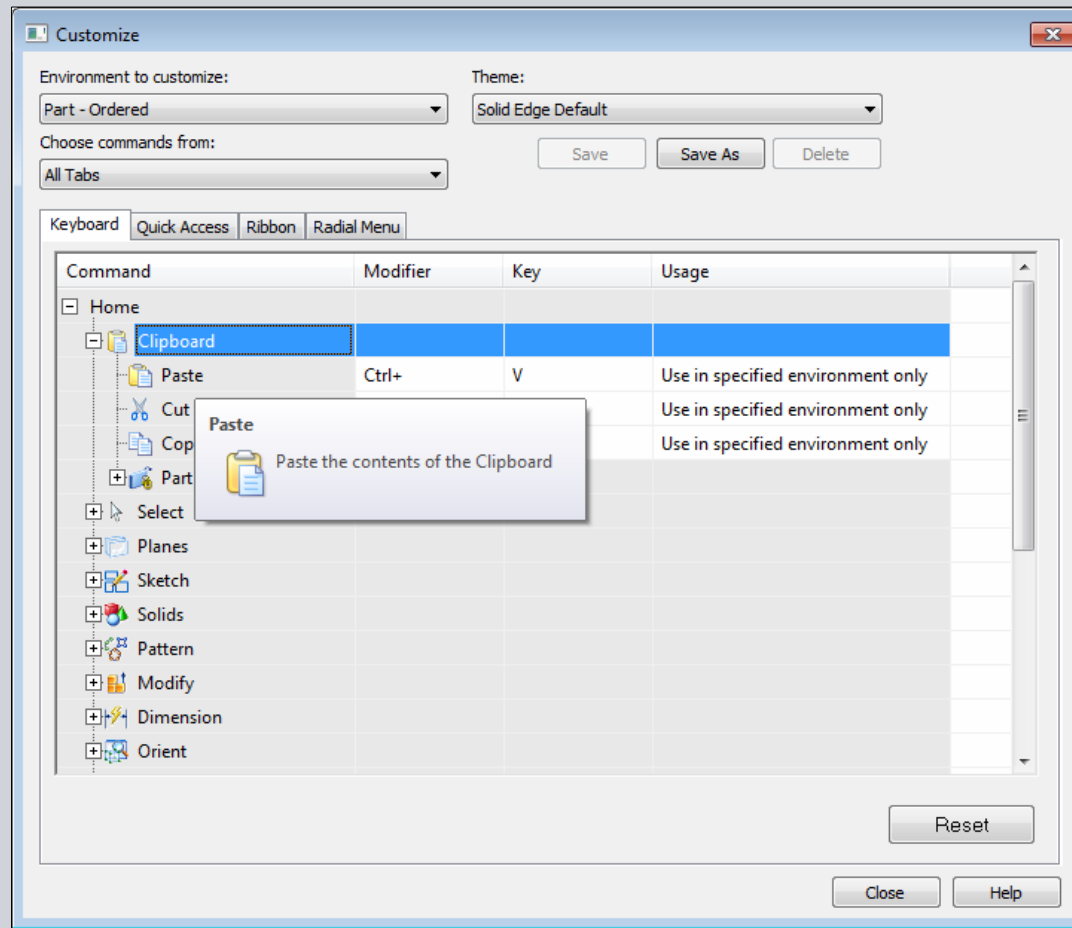
Customization - Keyboard

- First column presents Commands
- Second column presents Modifiers in a drop list
 - Alt
 - Ctrl
 - Shift
 - Ctrl+Alt
 - Ctrl+Shift
- Third column presents Key - the user enters the key of choice
- Fourth column provides a drop list containing a choice of “Use in all environments” or “Use in specified environment only”



Customization - Keyboard

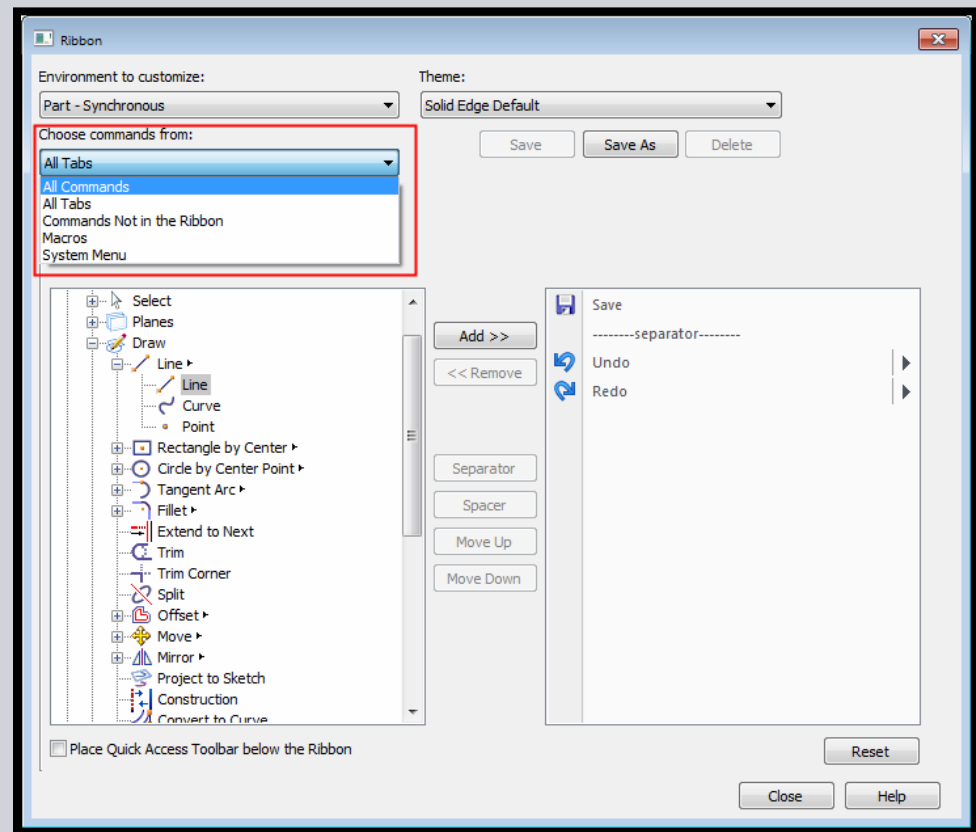
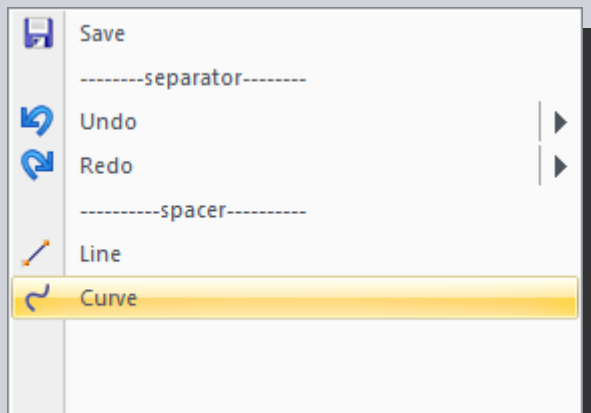
- Tooltips display when paused over command level items



Customization – Quick Access Toolbar

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- “Choose commands from” categories
 - All Commands
 - All Tabs
 - Commands Not in the Ribbon
 - Macros
 - System Menu
- “Spacer” is used to create blank areas of space on the Quick Access toolbar



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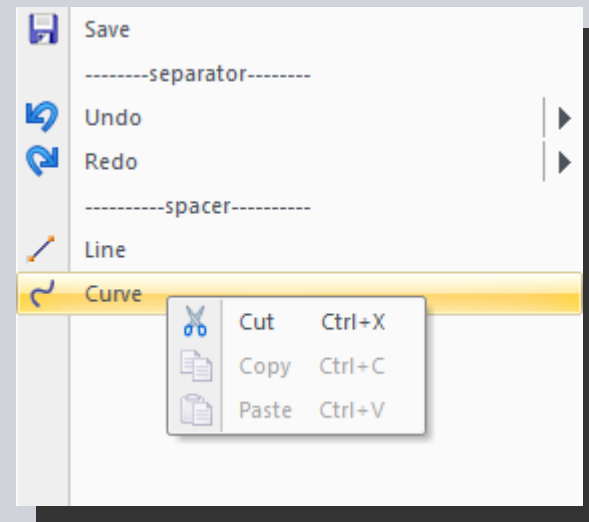
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Customization – Quick Access Toolbar

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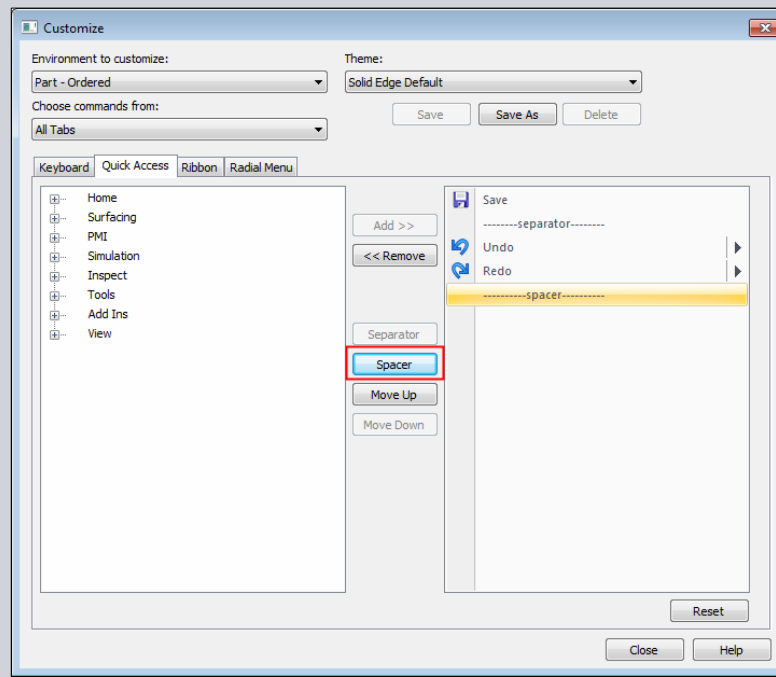
- Shortcut menu containing Cut, Copy, and Paste is displayed when the user RMB clicks an item in the customized list on the Quick Access toolbar
 - “Cut” is enabled for command, separators, and spacers
 - “Copy” is only enabled for separators and spacers
 - “Paste” remains disabled until a valid item from the customized list has been placed on the clipboard



Customization – Quick Access Toolbar

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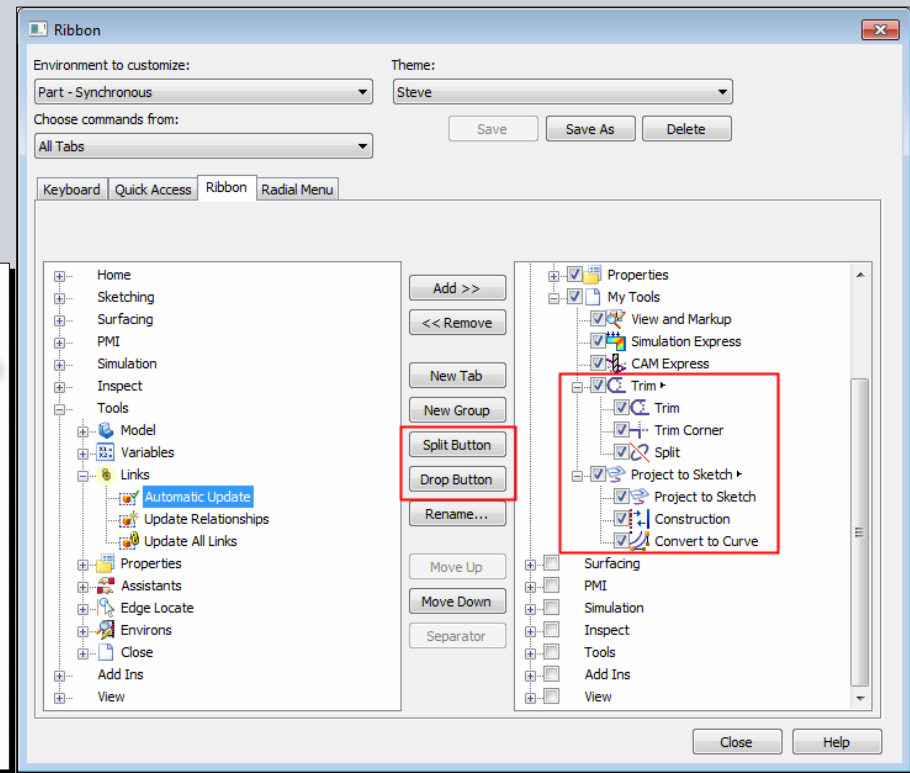
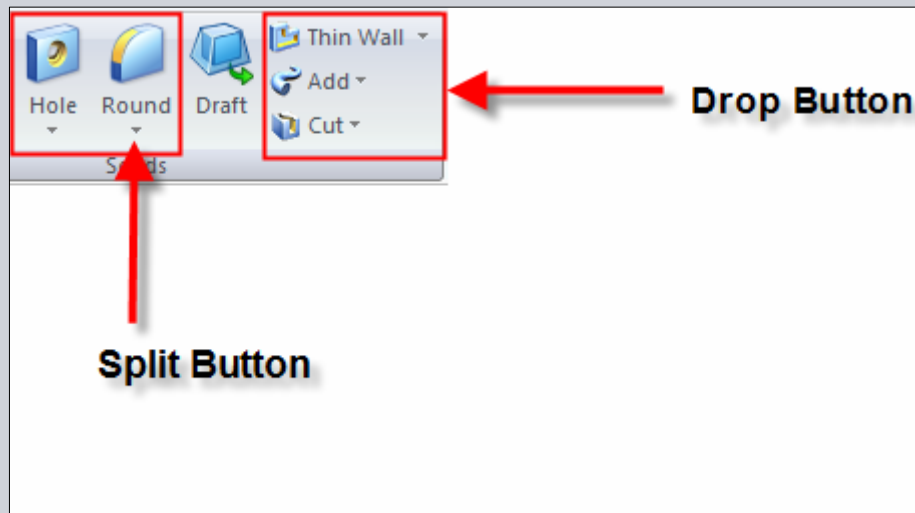
- New “Spacer” button can be used to create blank areas of space on the Quick Access Toolbar
 - If an item is selected in the right (customized) pane and the Spacer button is clicked, a spacer is added beneath the selected item
 - Spacers can be moved up and down within the customized list just like the Separator



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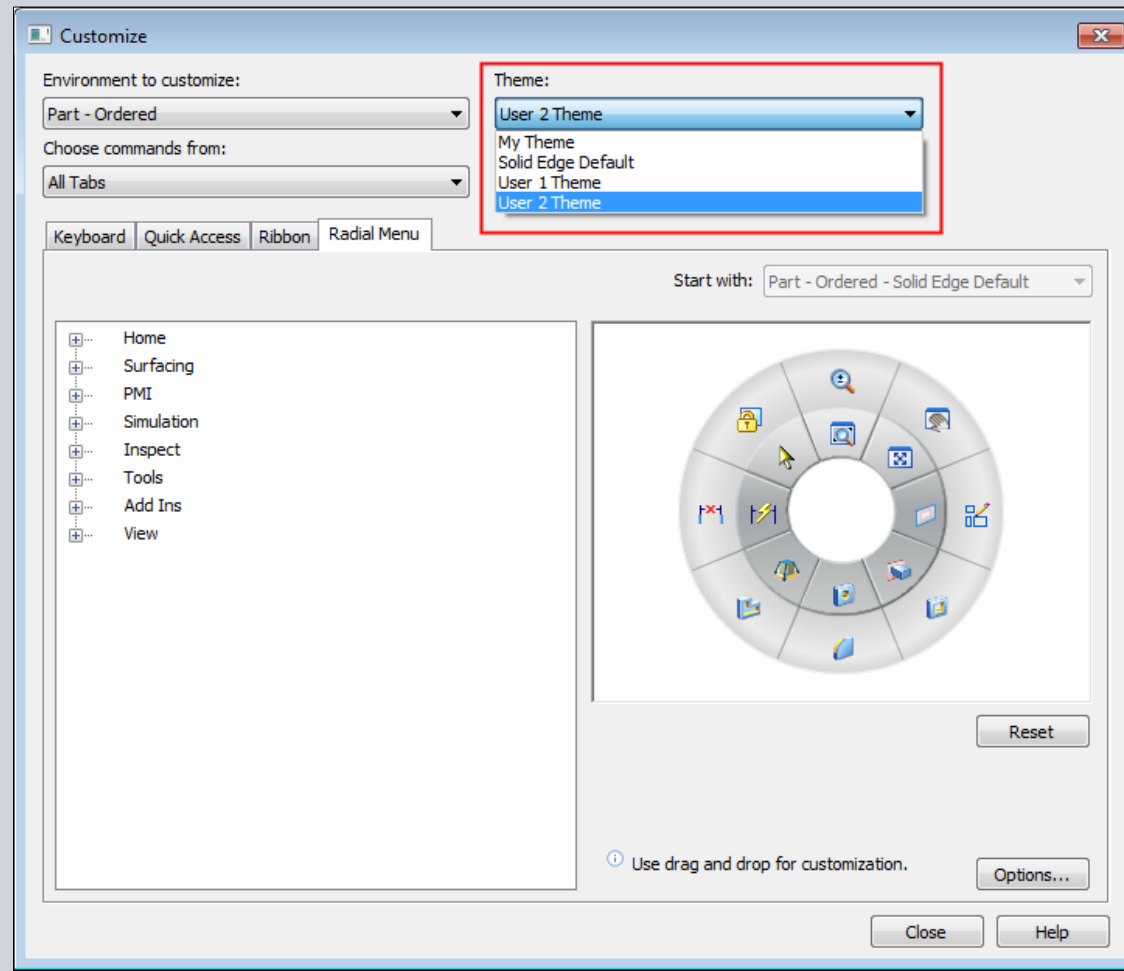
Customization – Ribbon

- Split Button allows customization of an icon to have a drop down list or direct select top level command
- Drop Button allows customization of an icon to have a drop down list, user then selects which command is needed



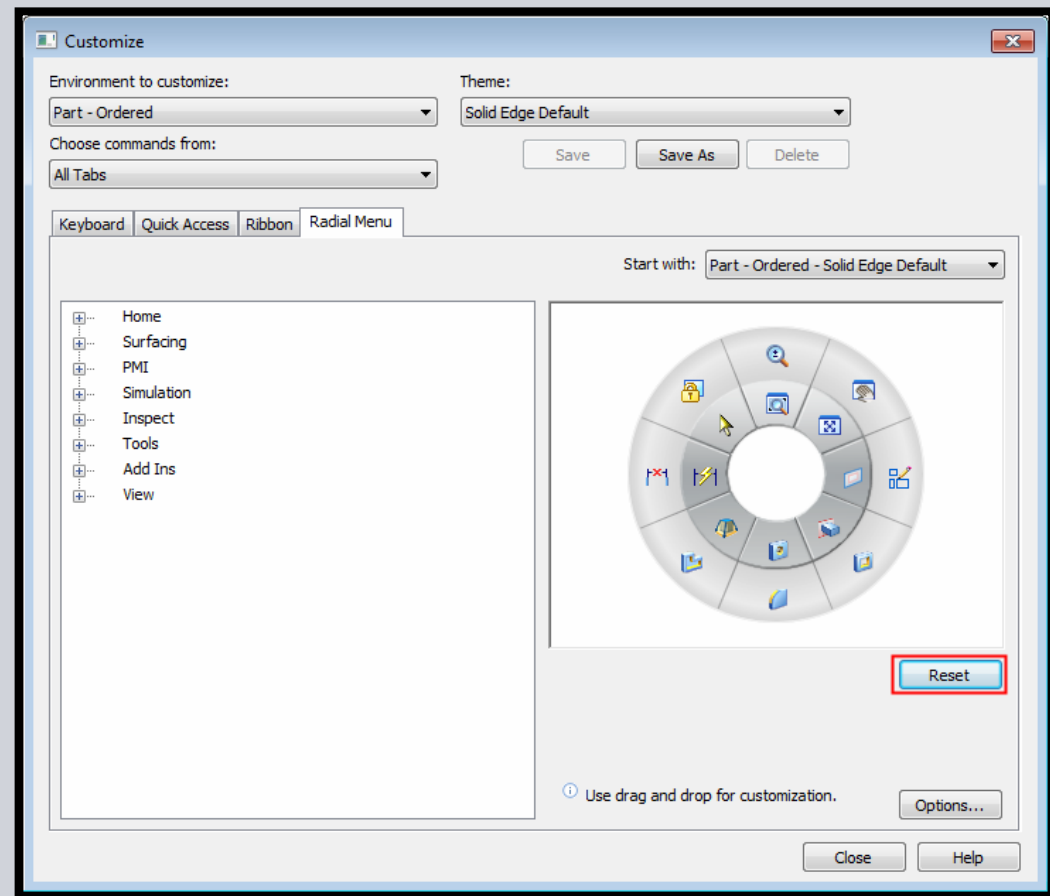
Customization – Radial Menu

- Radial menu now supports multiple Themes



Customization – Radial Menu

- “Reset” button has been added to the Radial Menu tabs
 - “Reset” returns the customization for the Radial menu back to the “Solid Edge Default”



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Customization – File Management

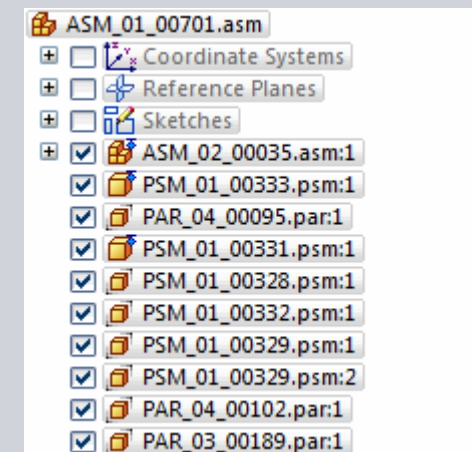
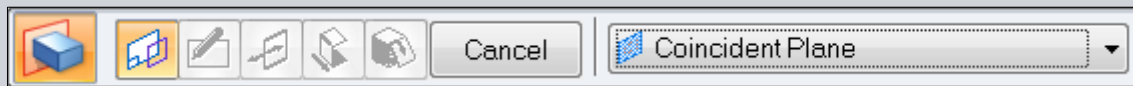
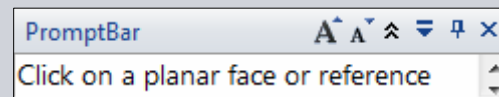
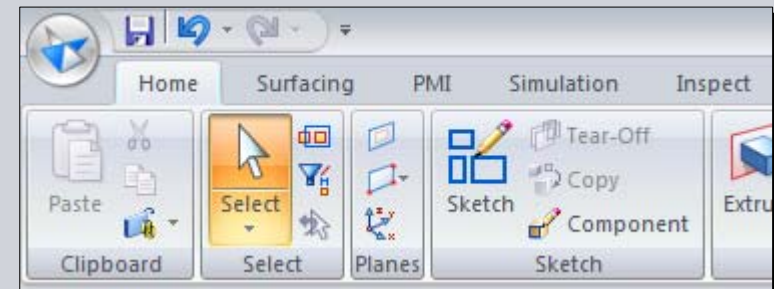
- Four new Customization files are generated for areas of customizing
 - Solid Edge installation:
 - Keyboard - ThemeNameKBCustom.xml
 - Quick Access Toolbar - ThemeNameQATCustom.xml
 - Ribbon - ThemeNameRibbonCustom.xml
 - Radial Menu - ThemeNameRadialCustom.xml
 - 2D Draft installation:
 - Keyboard – 2DThemeNameKBCustom.xml
 - Quick Access Toolbar – 2DThemeNameQATCustom.xml
 - Ribbon – 2DThemeNameRibbonCustom.xml
 - Radial Menu – 2DThemeNameRadialCustom.xml

Customization – File Management

- New file install locations Windows7:
 - C:\Users\username\AppData\Roaming\Unigraphics Solutions\Solid Edge\Version 104
 - User defined customization located in the Customization folder and theme name
- ST3 RibbonCustomization.xml file is brought forward to ST4

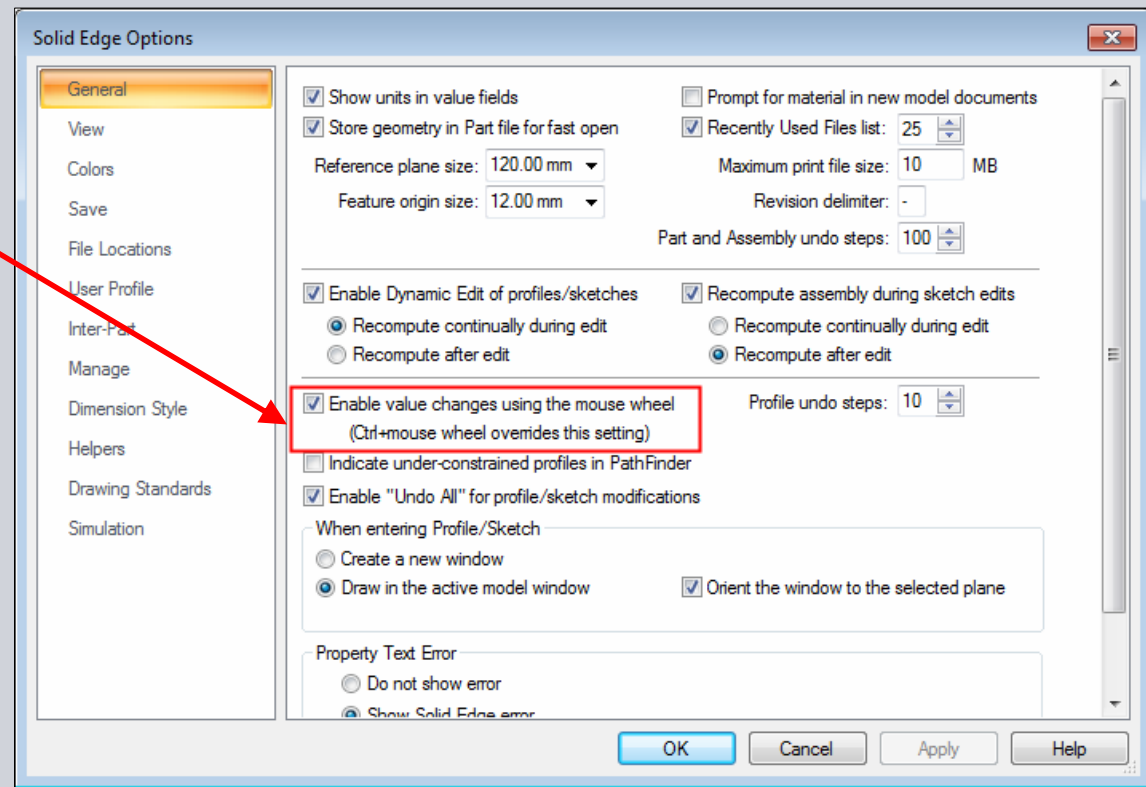
Mouse Wheel Scroll

- Scrolling within the graphic area (Parts, Assembly and Draft) – Model zooms in/out centered at the cursor location
- Scrolling Command Tabs –changes tab and toolbars
- Scrolling Quick Bar and Command
- Scrolling in the PathFinder
- Scrolling on Prompt Bar - only when scroll arrows are present



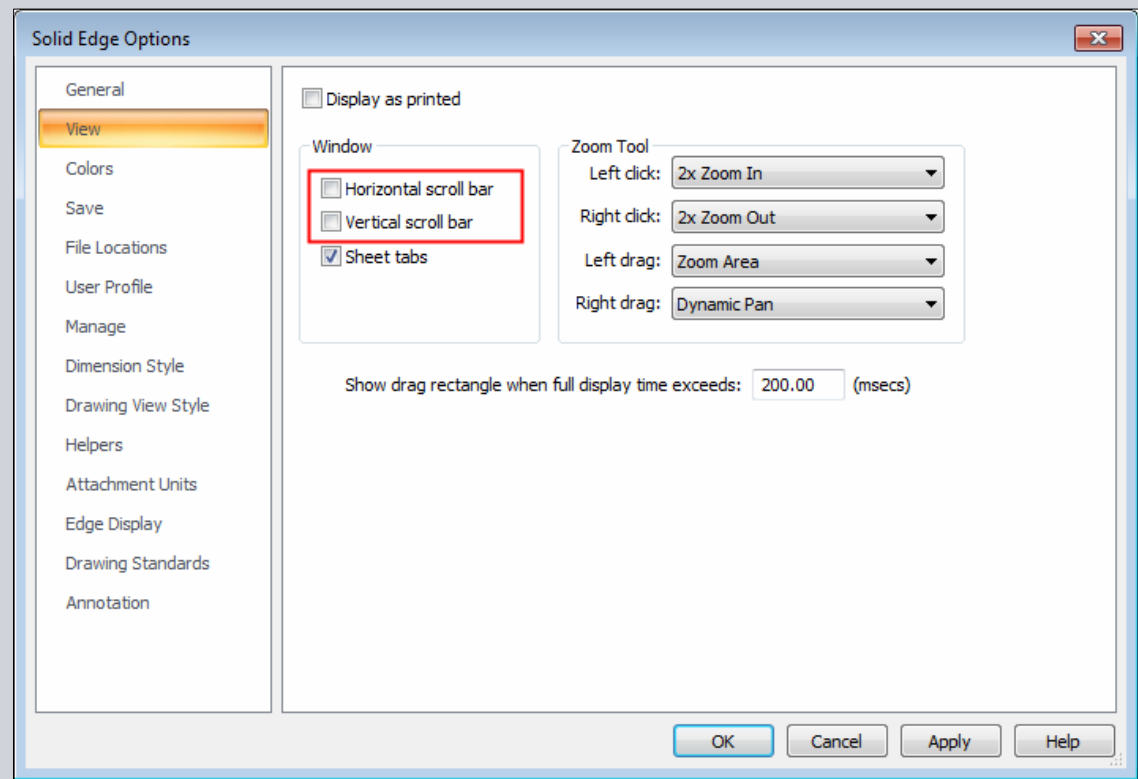
Mouse Wheel Scroll

- Scrolling Dimensional changes – Option, General
 - Enable dimension changes using the mouse wheel has changed to
- Unchecked by default



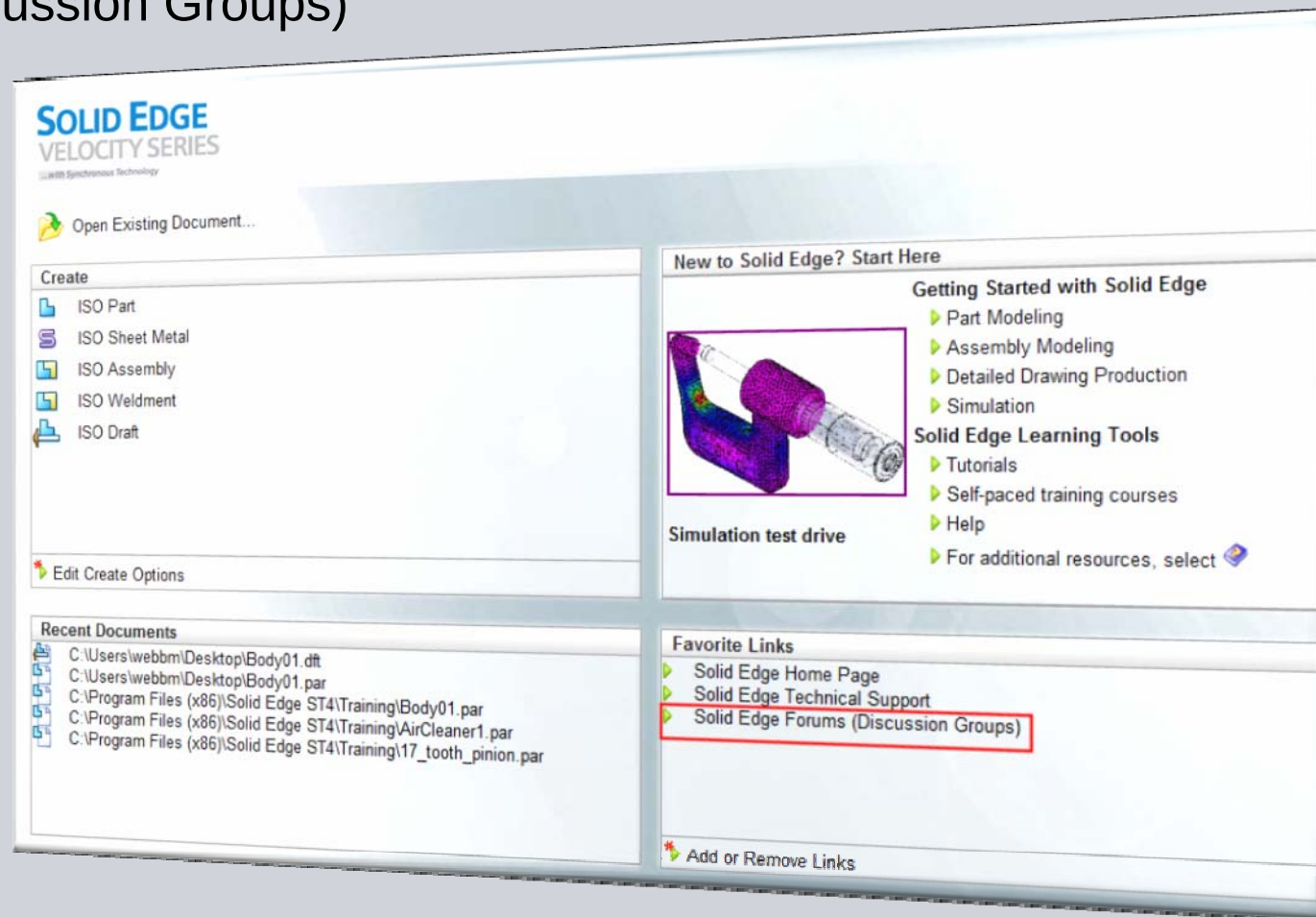
Mouse Wheel Scroll

- **Scroll Bars in Draft** – if turned on, the MMB scrolls the bars. It does not zoom in/out
- **Unchecked by default**



News Group Access

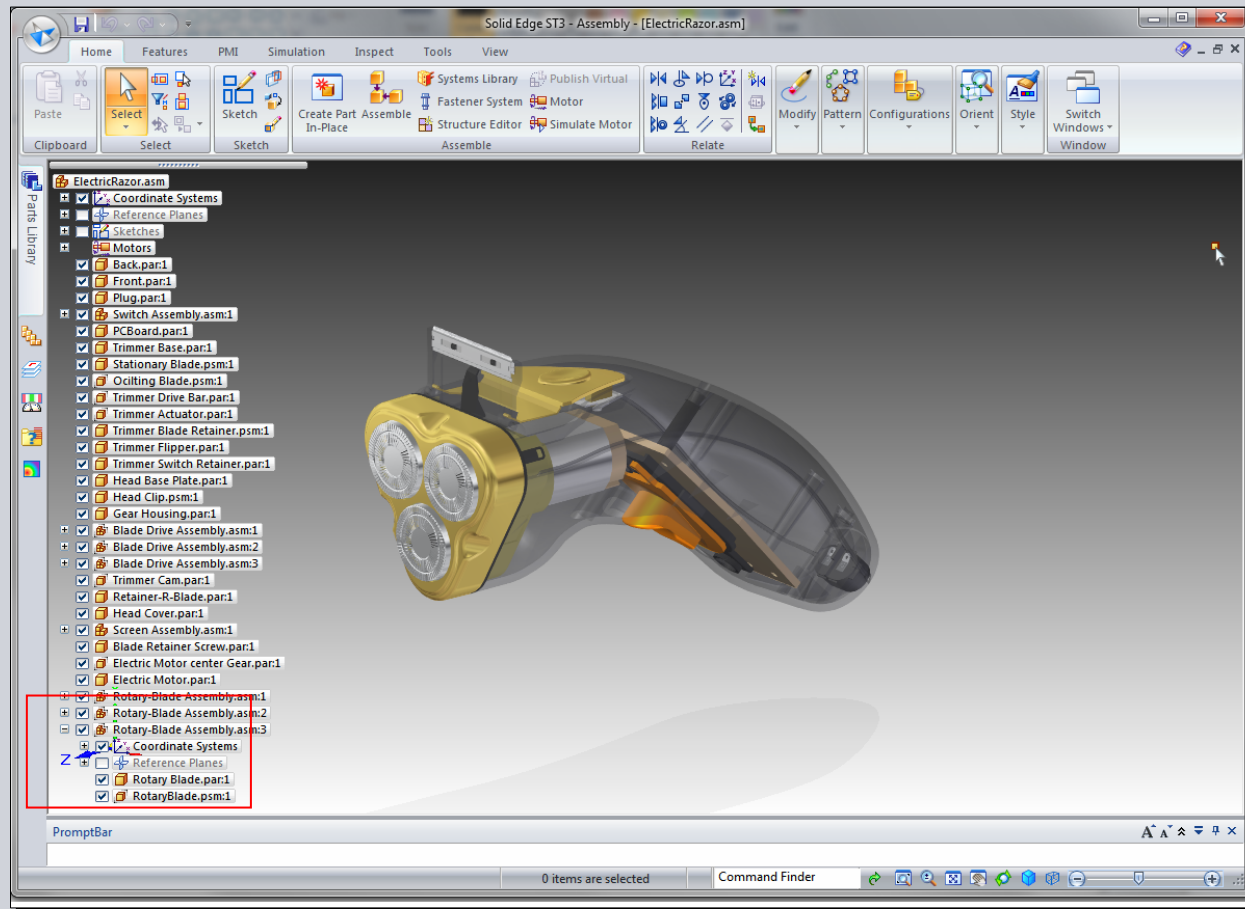
- Solid Edge Newsgroups has been changed to Solid Edge Forums (Discussion Groups)



Triad Positioning

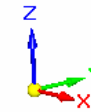


- The position of the triad in ST3 was often hidden by Pathfinder



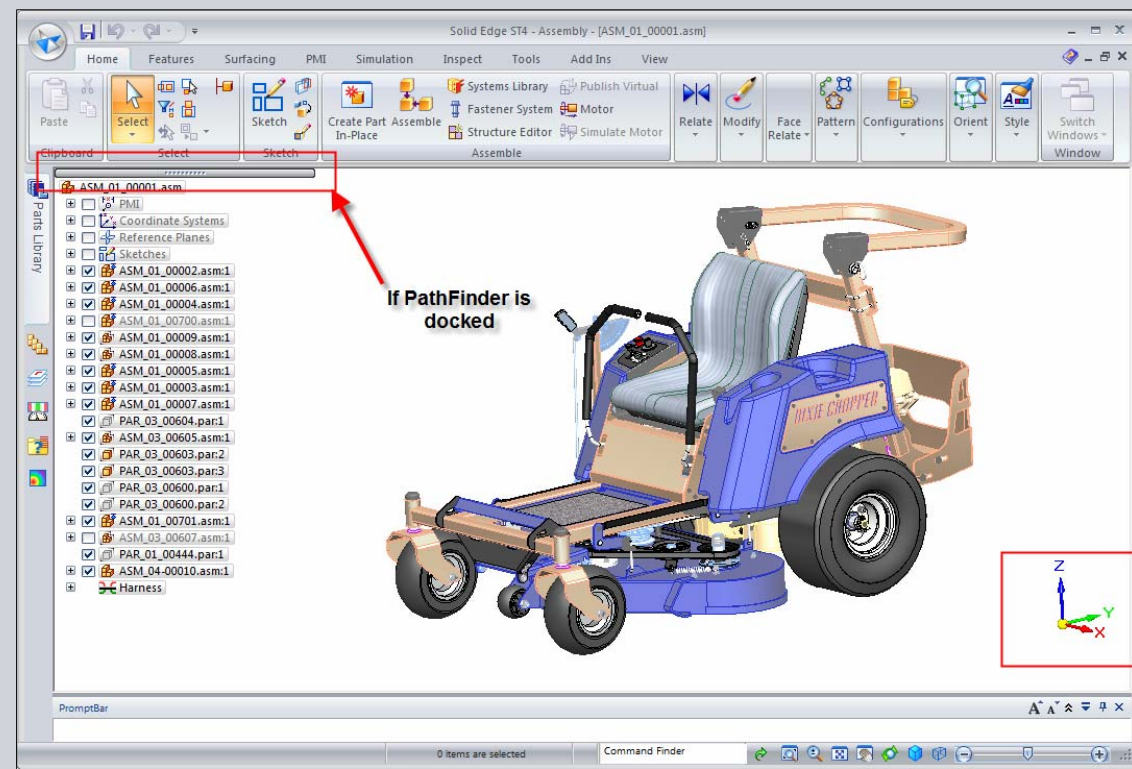
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Triad Positioning



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- When the transparent Pathfinder is docked to the left side of the screen, the triad is forced to the right side of the screen
- The triad does not move during dynamic drag of the Pathfinder
 - It updates when Pathfinder is dropped into position



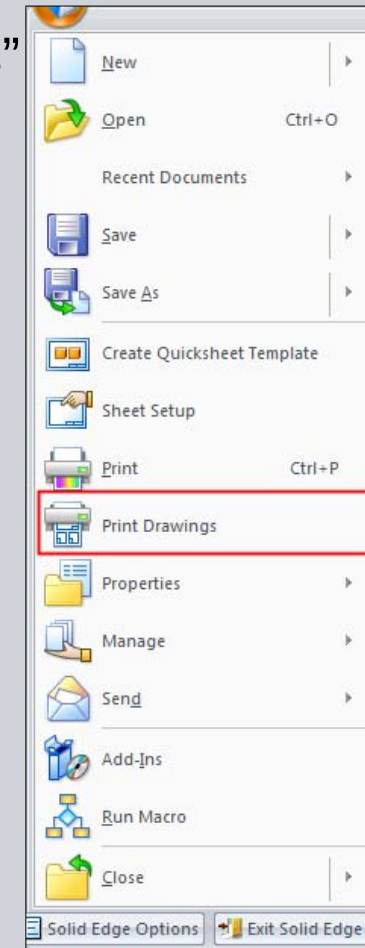
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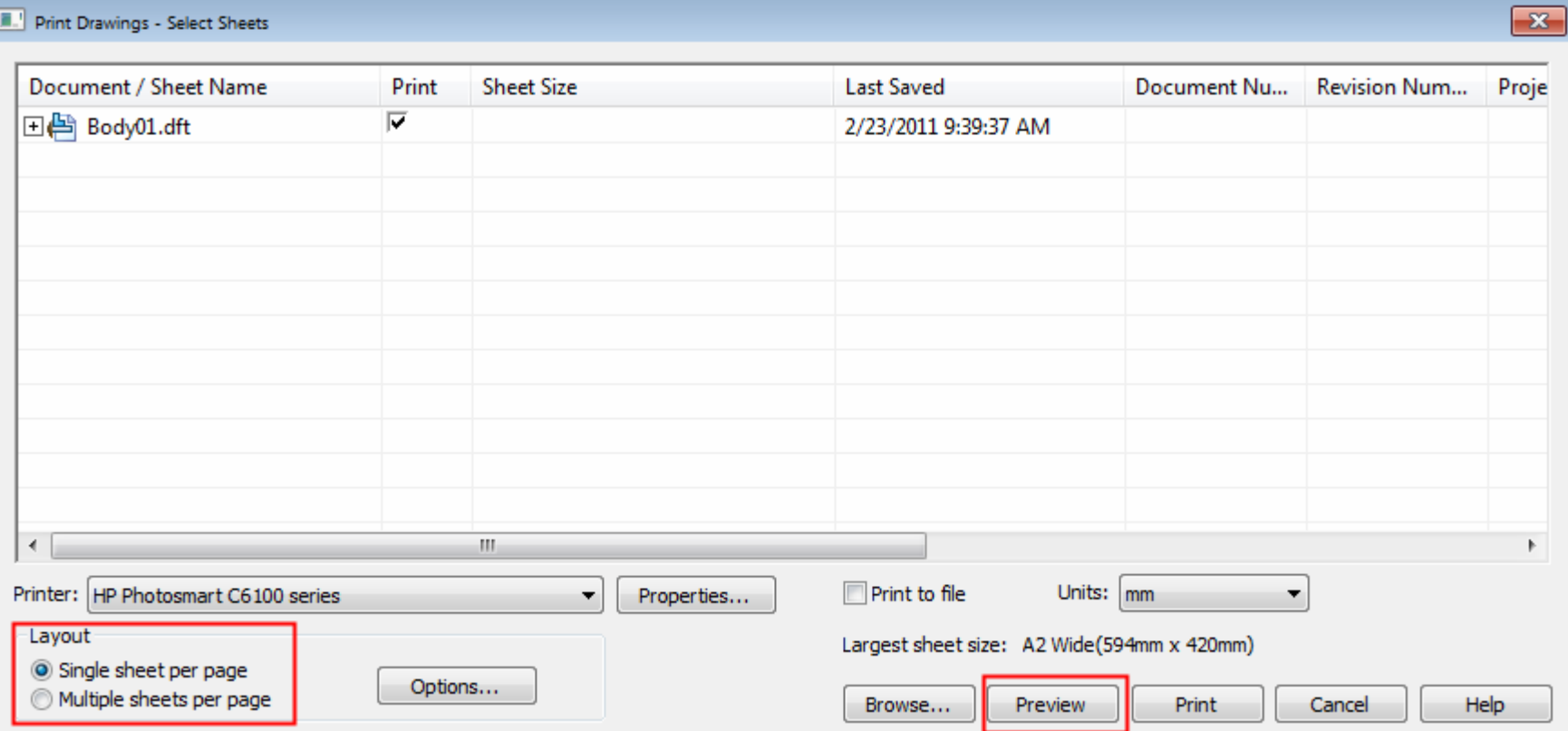


- Print Drawings command is available in the Draft Application menu
- When this command is selected, the “Print Drawings” dialog is shown

A screenshot of a software menu titled 'Draft Application'. It contains two visible options: 'New' with a blue document icon and 'Open' with a yellow folder icon. The 'Open' option has a keyboard shortcut 'Ctrl+O' listed to its right.



- The “Preview” button and “Single sheet per page” is enabled

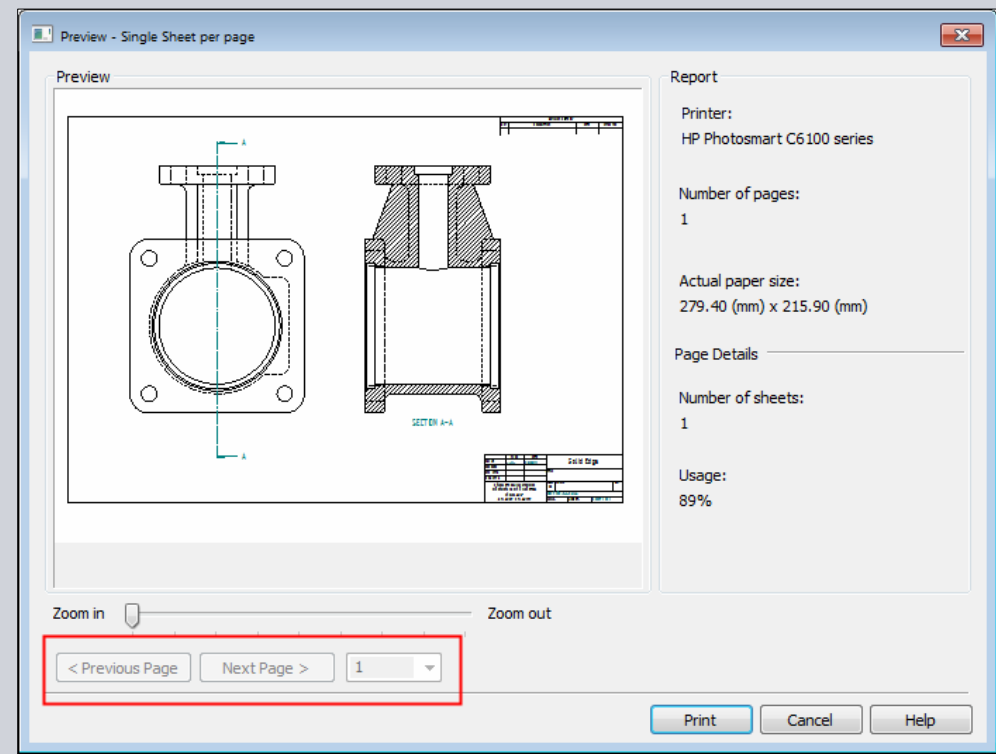




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Print Preview

- When the “Preview” button is selected, the preview dialog is displayed
- “Previous Page” and “Next Page” buttons are only enabled when more than one page is to be preview
- Page number drop list is only be enabled when there are more than one page to preview
- When the “Print” button is selected, the document(s) is sent for printing as per the preview



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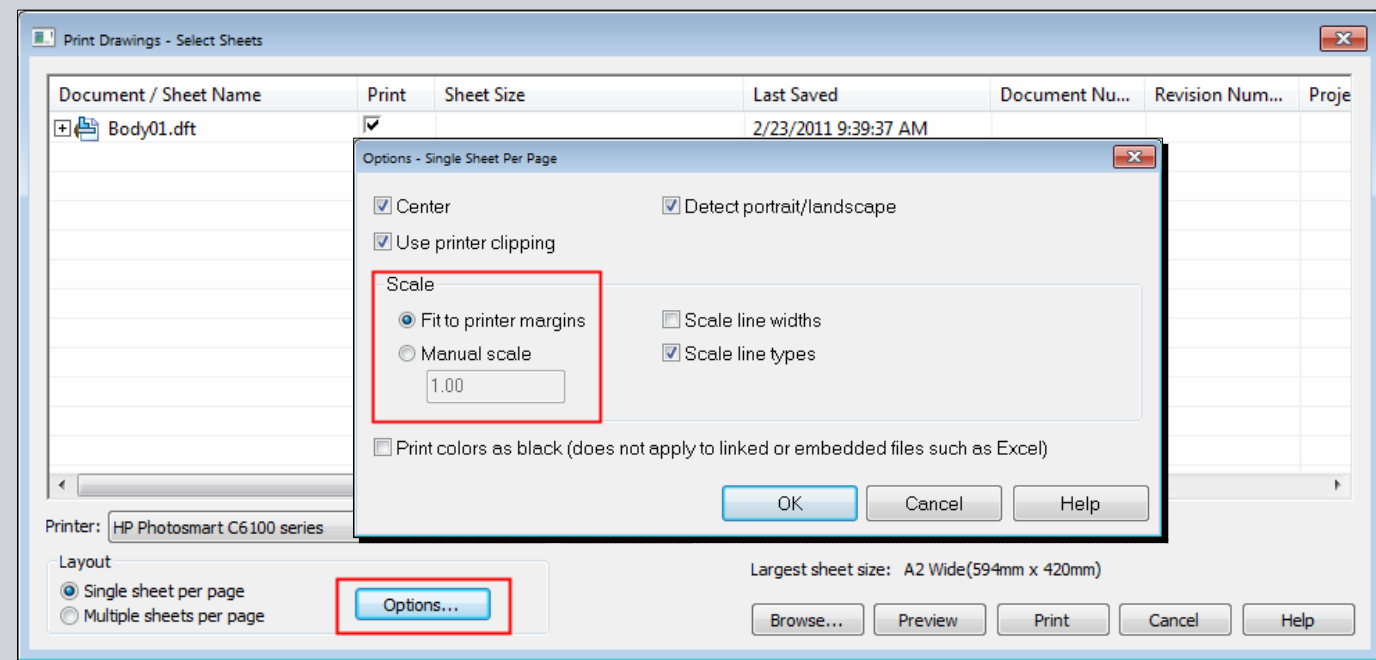
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Print Preview

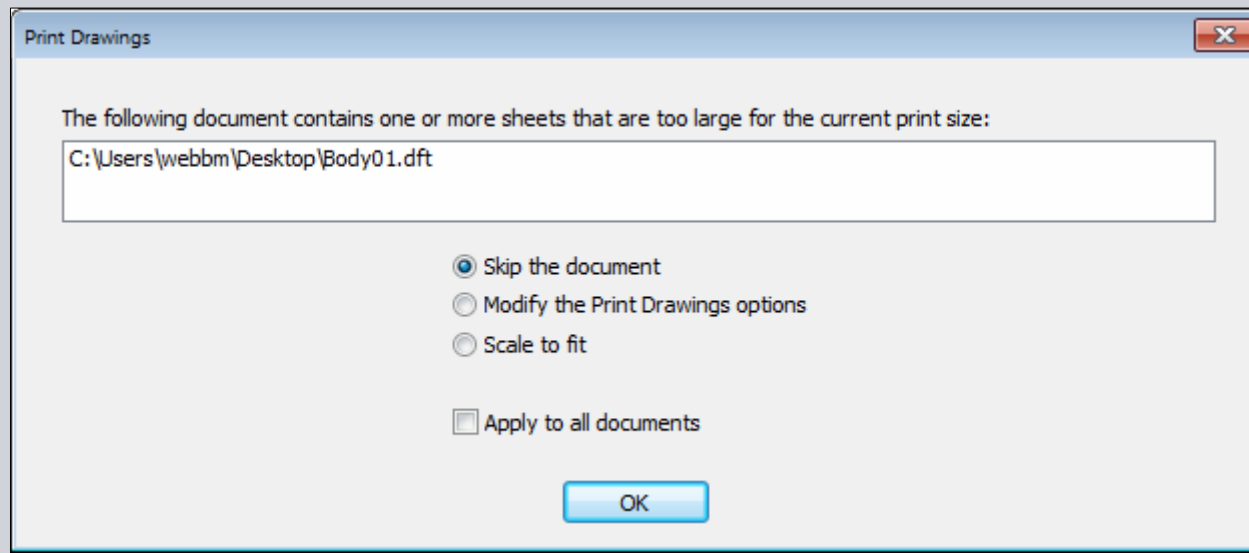
- Sheet Larger than Print Size
 - If the sheet(s) is larger than the print size, the preview behavior is based on the Scale option selected on the “Options” dialog
 - If “Fit to printer margins” option is selected when the user clicks “Preview”, all document(s) are scaled to fit and the preview is shown





Print Preview

- If the 'Manual scale' option is selected when the user clicks "Preview", the following dialog is displayed



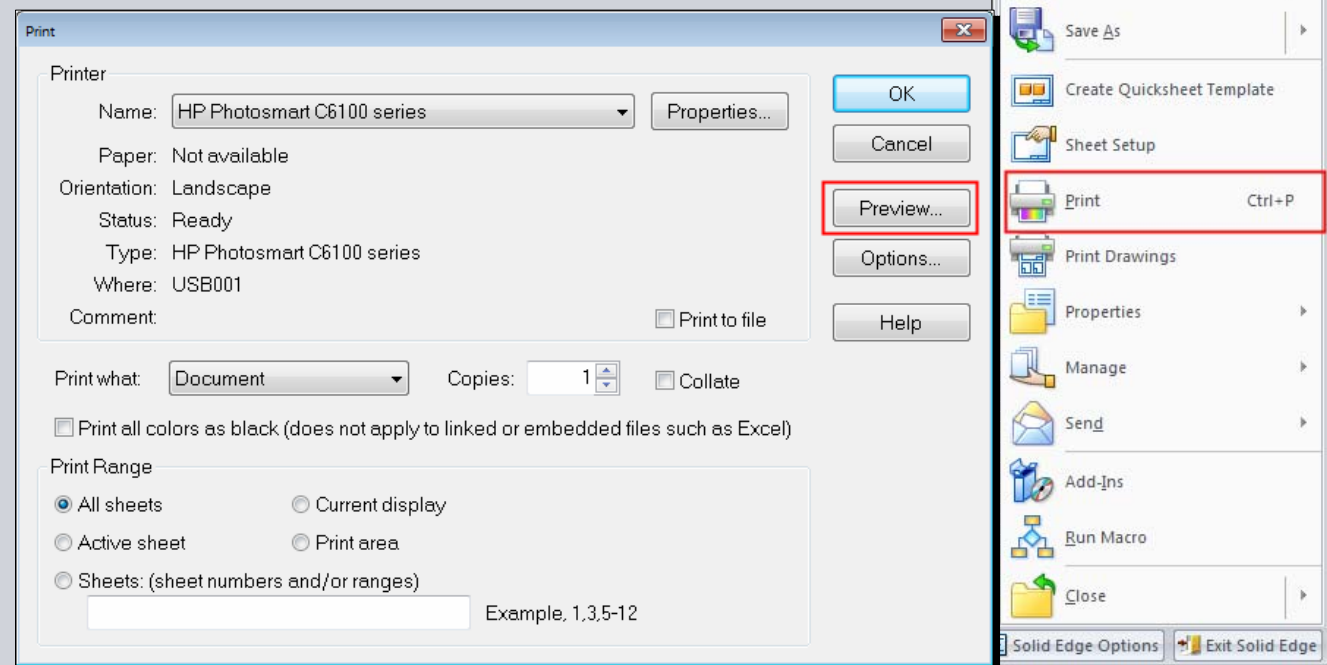
- This is the same dialog that displays when the "Print" button is selected for the "Single sheet per page" option



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Print Dialog

- The Print command is currently available on the Application menu of all environments
- A “Preview” button has been added to the Print dialog in the Draft environment and Free 2D



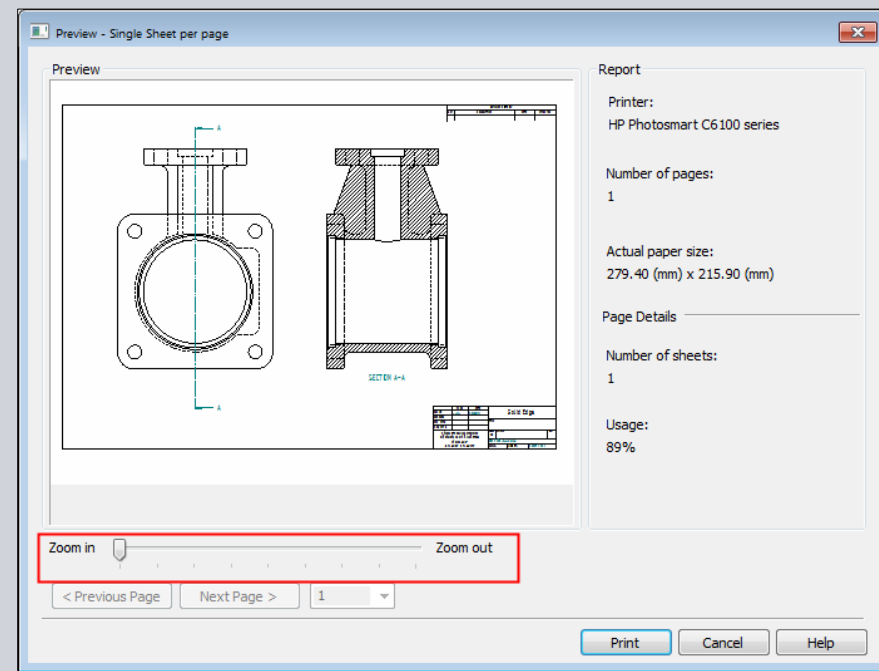
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Print Preview - Zoom

- Support for zoom of the preview using a slider
- Zooming option is for Print and Print Drawing
- Controls for the zoom slider
 - Drag slider right to left
 - Arrow keys Up, Down, Left and Right
 - Page Up and Page Down
- Left mouse click in preview window will invoke zooming
- Zoomed display does not print



Demo 2

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Thank You!