EMBRACE AND EXTEND THE POWERSHELL ISE

Jeffery Hicks

Windows PowerShell MVP

**jhicks@jdhitsolutions.com**
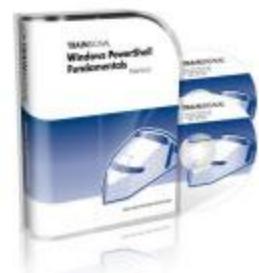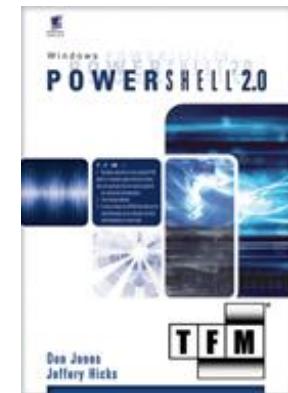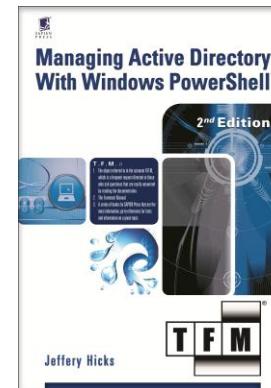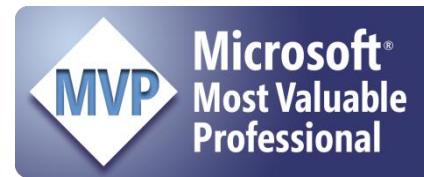
Agenda

- The ISE Object Model
- Customizing the ISE
- Suggested Add-Ons
- PowerShell Resources
- Q&A

WHO AM I?

- Windows PowerShell MVP
- PowerShell Author
  - Windows PowerShell 2.0: TFM (with Don Jones)
  - Managing Active Directory with Windows PowerShell: TFM 2nd Ed
- Prof. PowerShell
- IT trainer and consultant
- http://jdhitsolutions.com/blog
- http://twitter.com/jeffhicks
- Google Plus: Jeffery Hicks

THE ISE OBJECT MODEL

- Start with the $PSISE object
- $psise | get-member –membertype Property

```
CurrentPowerShellTab : Microsoft.PowerShell.Host.ISE.PowerShellTab
CurrentFile          : Microsoft.PowerShell.Host.ISE.ISEFile
Options              : Microsoft.PowerShell.Host.ISE.ISEOptions
PowerShellTabs       : {PowerShell 1}
```

CUSTOMIZING THE ISE

- Change panel background colors
- Use HTML color codes
- ..or use primary colors
- You also will want to change font style or colors

```
$psise.options.OutputPaneBackgroundColor="DarkBlue"
$psise.Options.OutputPaneTextBackgroundColor="DarkBlue"
$psise.Options.OutputPaneForegroundColor="#FFFFFFFF"
$psise.Options.CommandPaneBackgroundColor="DarkBlue"
$psise.options.TokenColors["command"]="White"
$psise.Options.FontName = 'Courier New'
$psise.Options.FontSize = 16
```

- If you don't like it, exit and restart the ISE
- ISE version of the VIM blackboard theme at
  http://www.pshscripts.blogspot.com/search/label/ISE

CREATING AN ADD-ON FUNCTION

```
Function Insert-Author {

#define a text block that will get inserted
$text=@"
<#
Author : Jeffery Hicks
Email  : jhicks@jdhitsolutions.com
blog   : http://jdhitsolutions.com/blog
Created: $(Get-Date -format d)

"Those who forget to script are doomed to repeat their work"
#>

"@

#insert the block in the current file at the current position
$psise.CurrentFile.Editor.InsertText($text)

} #close function
```

ADD THE FUNCTION TO THE MENU

- Each tab has an AddOnsMenu object
- Add an entry to the SubMenu object
- Specify a name and scriptblock
- Shortcut key is optional

```
$psise.CurrentPowerShellTab.AddOnsMenu.Submenus.Add(
"Author Comment",{Insert-Author},"Alt+A")
```
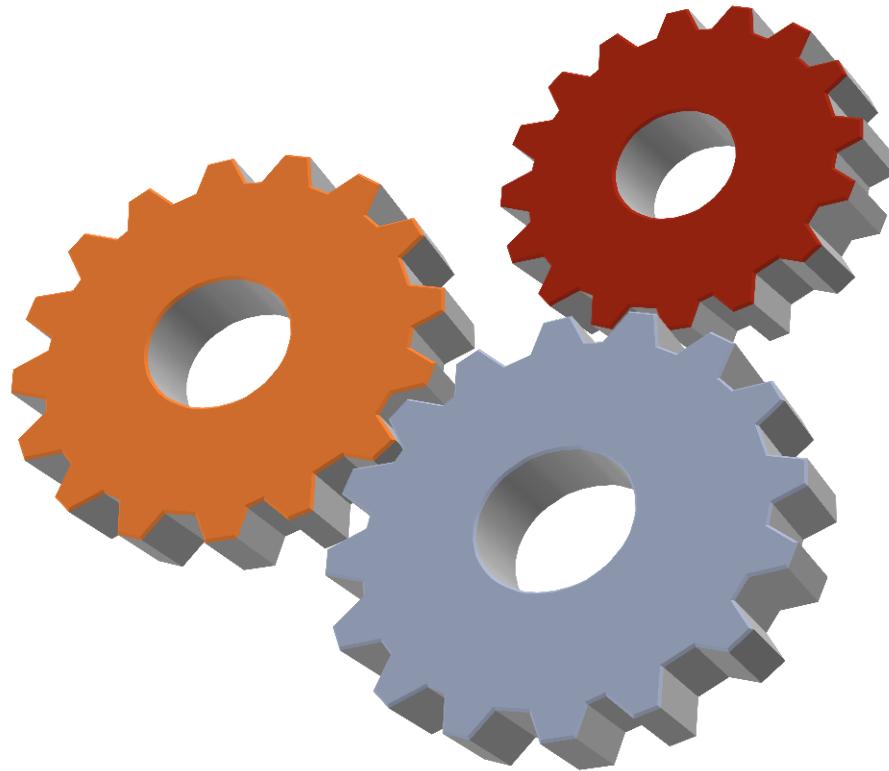
CREATING AN OPTIONAL SUBFOLDER

- Create a sub-folder under AddOns
- Add items to the sub menu

```
$mymenu=$psise.CurrentPowerShellTab.AddOnsMenu.Subme
nus.Add("MyMenu",$null,$null)

$mymenu.submenus.Add("Author Comment",{Insert-
Author},"Alt+A")
```

Customize Demos

Suggested ISE Add-ons

- ISE Pack
- ISE Scripting Geek
- PSISE Library
- ISE-Lines
- Auto ISE Preferences

ISE Pack

- Toggle comments
- Copy colorized script
- Show syntax
- Snippets
- http://archive.msdn.microsoft.com/PowerShellPack

ISE Scripting Geek

- Convert aliases/commands
- Convert to text file
- Create Help Wizard
- Print script
- http://jdhitsolutions.com/blog/2011/10/ise-scripting-geek-module

PSISELibrary

- Replace-TabsWithSpace
- New-CommentBlock
- New-Script
- New-Function
- Add each function to menu with -Installmenu $True
- Some shortcut conflicts
- http://gallery.technet.microsoft.com/PSISELibraryps1-ec442972

ISE-Lines

- Functions for managing lines
- Move Up and Down
- Duplicate
- Join lines
- Some shortcut conflicts
- http://poshcode.org/1727

Auto-ISE Preferences

- Automatically save ISE configuration options
- Add script to PowerShell profile to automatically restore your last configuration
- http://poshcode.org/2230

MORE ADD-ONS

- http://social.technet.microsoft.com/wiki/contents/articles/2969.windows-powershell-ise-add-on-tools.aspx
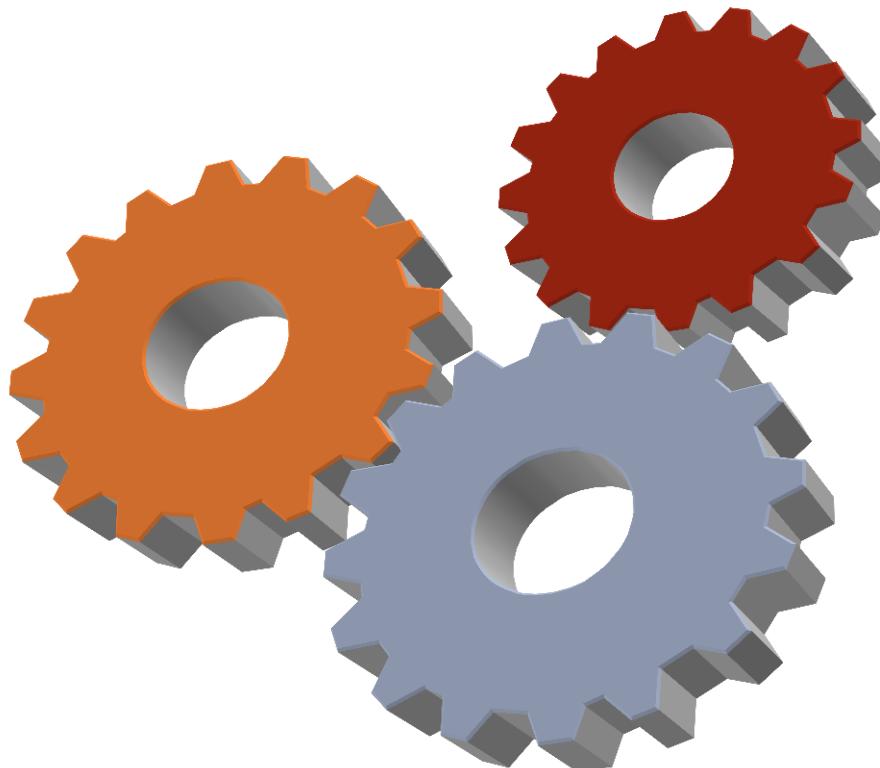
- http://poshcode.org (search for ISE)

- Your ISE profile is the "biggest" add-on you have.

ADDON DEMOS

POWERSHELL RESOURCES

- Windows PowerShell 2.0: TFM by Don Jones and Jeffery Hicks
- Windows PowerShell in Action 2nd Ed. by Bruce Payette
- Windows PowerShell Cookbook 2nd Ed. by Lee Holmes
- Windows PowerShell Team blog (http://blogs.msdn.com/powershell)
- The Lonely Administrator (http://jdhitsolutions.com/blog)
- Prof. PowerShell (http://mcpmag.com/articles/list/prof-powershell.aspx)

QUESTIONS

THANK YOU

- http://jdhitsolutions.com/blog
- jhicks@jdhitsolutions.com