

FarNet module PowerShellFar

PowerShell host and cmdlets

TabExpansion list in any edit line

Bunch of ready scripts and modules

Script editor with syntax highlighting

Exposed FarNet API for anything in the UI

Debugger breakpoint list and source dialog

etc., etc., etc.

F11 | PowerShellFar | Invoke input code...

Then type `$Far.` and hit the Tab key

The image shows two overlapping windows from the Far Explorer application. The background window is titled '{C:\Program Files\Far\FarNet\Modules} - Far 2.0.1791 Administrator'. It displays a file list on the left and a detailed view on the right. A context menu is open over the 'PowerShellFar' file, with '1. Invoke input code...' selected. The foreground window is titled 'Far.*] - Far 2.0.1791 Administrator'. It shows the same file list, but the detailed view displays a list of commands prefixed with '\$Far.', such as '\$Far.ActivePath', '\$Far.AnyEditor', '\$Far.AnyViewer', '\$Far.CodeToChar()', '\$Far.CommandLine', '\$Far.Confirmations', '\$Far.CopyToClipboard()', '\$Far.CreateDialog()', '\$Far.CreateEditor()', '\$Far.CreateInputDialog()', '\$Far.CreateKeySequence()', '\$Far.CreateListMenu()', '\$Far.CreateMenu()', '\$Far.CreatePanel()', '\$Far.CreateViewer()', '\$Far.Dialog', '\$Far.Editor', '\$Far.Editors()', '\$Far.Equals()', '\$Far.FarNetVersion', and '\$Far.FarVersion'. A small 'PowerShellFar' window is also visible, showing the '\$Far.' command.

Far Explorer - {C:\Program Files\Far\FarNet\Modules} - Far 2.0.1791 Administrator

Name	Description
Backslash	
EditorKit	
File.Version.Info	
FolderChart	
FSharpEditor	
MultiHasher	
PowerShellFar	
RightControl	
Test	
Tutorial-Command	
Tutorial-Filer	
Tutorial-Host	
Vessel	

PowerShellFar

1. Invoke input code...
2. Invoke selected code
3. Background jobs...
4. Command history...
5. Editor console
6. Power panel...
7. TabExpansion
8. Modules+...
9. Debugger...
0. Errors...
- . Help

Actions

- a. Macro(s)...
- a. Favorites...
- c. Complete word
- t. Edit description
- e. Edit recent file
- n. Go to recent fol
- h. Go to panel head

Far.*] - Far 2.0.1791 Administrator

Name	Description
Backslash	
EditorKit	
File.Version	
FolderChart	
FSharpEditor	
MultiHasher	
Po	
Ri	
Te	
Tu	
Tu	
Vessel	

\$Far.*]

- \$Far.ActivePath
- \$Far.AnyEditor
- \$Far.AnyViewer
- \$Far.CodeToChar(
- \$Far.CommandLine
- \$Far.Confirmations
- \$Far.CopyToClipboard(
- \$Far.CreateDialog(
- \$Far.CreateEditor(
- \$Far.CreateInputDialog(
- \$Far.CreateKeySequence(
- \$Far.CreateListMenu(
- \$Far.CreateMenu(
- \$Far.CreatePanel(
- \$Far.CreateViewer(
- \$Far.Dialog
- \$Far.Editor
- \$Far.Editors(
- \$Far.Equals(
- \$Far.FarNetVersion
- \$Far.FarVersion

Far Explorer - Far.*] - Far 2.0.1791 Administrator

Name	Description
ons	
umentation	
yclopedia	
Net	
cept	
gins	
ar	
oreSettings.cm}	
Up 11-01-19 16:20	
= 3,180,017 bytes in 13 files	

Editor consoles: global, local, and remote

Syntax and output highlighting

Far.Window.*] - Far 2.0.1791 Administrator

C:\...\062450.psfconsole * 1200 Line 19/19 Col 13

```
$Host
<=
```

Name : FarHost
Version : 4.3.36.0
InstanceId : 39fe34bd-3584
UI : System.Management
CurrentCulture : en-GB
CurrentUICulture : ru
PrivateData : [\$Far.Window.
IsRunspacePu \$Far.Window.Commi
Runspace \$Far.Window.Count
\$Far.Window.Equal
\$Far.Window.GetHa
\$Far.Window.GetIn
\$Far.Window.GetKi
\$Far.Window.GetTy
\$Far.Window.Kind
\$Far.Window.SetCu
\$Far.Window.ToStr

=>
\$Far.Window.

(10)

read*] - Far 2.0.1791 Administrator

C:\...\064056.psfconsole * 1200 Line 18/18 Col 37

```
Set-Location $env:FARHOME\Farnet\Modules\Vessel
Get-ChildItem
<=
```

Directory: C:\Program Files\Far\Farnet\Modules\Vessel

Mode	LastWriteTime	Length	Name
-a---	2011-01-01 17:17	1511	LICENSE
-a---	2011-01-13 05:11	4511	Readme.txt
-a---	2011-01-18 16:06	33280	Vessel.dll
-a---	2011-01-03 11:37	2343	Vessel.hlf

=>
Start-FarEditor -DisableHistory read

[read*]
Read-Host
Readme.txt

(2)

Debugger

Breakpoint list and source dialog

The screenshot displays two windows from the 'PowerShell debugger tools - Far 2.0.1791 Administrator' application.

The background window, titled 'C:\...\Test-Debugger.ps1', shows a PowerShell script with a function `TestStepIntoOverOut`. The script contains comments indicating where to step into and out of the function. The line numbers 1251, 81/111, and column 1 are visible at the top.

The foreground window, titled 'DEBUG: Hit breakpoint(s) - Far 2.0.1791 Administrator', shows a list of breakpoints and a source code view.

Breakpoint List:

- Line breakpoint...
- Command breakpoint...
- Variable breakpoint...
- ✓ 1 Command breakpoint on
- ✓ 2 Variable breakpoint on
- ✓ 3 Variable breakpoint on
- ✓ 4 Variable breakpoint on
- ✓ 5 Variable breakpoint on
- ✓ 6 Variable breakpoint on
- ✓ 7 Variable breakpoint on

Source Dialog:

The dialog shows the source code of the `TestStepIntoOverOut` function. The breakpoint is set on the line `TestStepIntoOverOut # break on command; try: step into, over`. The code includes comments for stepping into and out of the function, and a section for changing variables in the debugger.

Buttons: [Step] [Over] [Out] Console Edit View Goto Break

Panel access

The screenshot displays the Far 2.0.1791 Administrator interface. The main window is split into two panels, both showing the directory `C:\Program Files\Far`. The left panel lists files like Backslash, EditorKit, File.Version.Info, FolderChart, FSharpEditor, MultiHasher, and Po. The right panel lists Addons, Documentation, Encyclopedia, FarNet, FExcep, and Plugin. A PowerShell console window is open in the foreground, titled "view PowerShell_transcript.20110119191632.2836.3.txt - Far 2.0.1791 Administra...". It shows the command `$Far.Panel` being executed, which returns a list of properties for the current panel. A small dialog box is also visible, showing the PowerShell code `$Far.Pa` and the command `$Far.PasteFromClipboard(`.

Far.Pa*] - Far 2.0.1791 Administrator

C:\...ram Files\Far\FarNet\Modules

n	Name	Description
..	Backslash	
..	EditorKit	
..	File.Version.Info	
..	FolderChart	
..	FSharpEditor	
..	MultiHasher	
..	Po	

C:\Program Files\Far

n	Name	Description
..	Addons	
..	Documentation	
..	Encyclopedia	
..	FarNet	
..	FExcep	
..	Plugin	

PowerShell code

\$Far.Pa [\$Far.Pa*]

\$Far.Panel

\$Far.Panel2

\$Far.PasteFromClipboard(

(3)

Up 11-01-19 16:20

0 bytes in 0 files

view PowerShell_transcript.20110119191632.2836.3.txt - Far 2.0.1791 Administra...

\$Far.Panel 1200 780 Col 0 0%

Path : C:\Program Files\Far\FarNet\Modules

Frame : (0, 0)

Window : ((0, 0), (39, 18))

ViewMode : Descriptions

Kind : File

SortMode : Name

TopIndex : 0

CurrentIndex : 0

SelectedList : {}

ShownList : {.., Backslash, EditorKit, File.Version.Info...}

SelectedFiles : {}

ShownFiles : {Backslash, EditorKit, File.Version.Info, FolderChart...}

CurrentFile : ..

UseSortGroups : True

ShowHidden : False

SelectedFirst : False

ReverseSortOrder : False

RealNames : True

NumericSort : True

IsVisible : True

IsPlugin : False

IsLeft : True

Editor access

The screenshot shows the Far Editor window titled "Far.Edi*" - Far 2.0.1791 Administrator. The main window displays a PowerShell script with the following content:

```
<#
.SYNOPSIS
    TabExpansion implementation.
    Author: Roman Kuzmin
#>

function global:TabExpansion
(
    [PowerShell code]
    [PowerShellFar]
    $Far.Edi* [Far.Edi*]
    $Far.Editor
    $Far.Editors(
    $prefWord_ = (2)
    if ($lastWord_ -match '^(.*[!;\(\)\{\}"])+(')
    {
        $prefWord_ = $matches[1]
        $lastWord_ = $matches[2]
    }

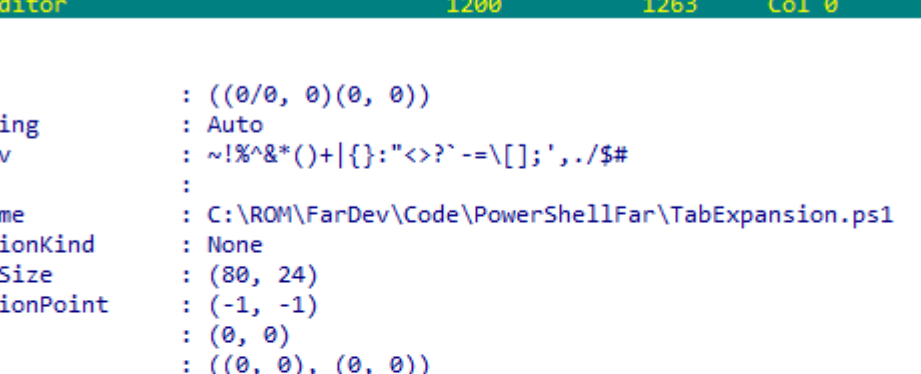
    ### Expand
    $sort_ = $true
    $expanded_ = .{
        ### #<pattern>: custom patterns in FarH
```

A variable lookup window is open over the script, showing the value of the variable `$Far.Editor`. The window title is "view PowerShell_transcript.201101191". The variable is defined as:

```
$Far.Editor
```

The value of the variable is a hashtable:

```
Frame           : ((0/0, 0)(0/0, 0))
Switching       : Auto
WordDiv         : ~!%&*()|+{|
Title           :
FileName        : C:\ROM\FarD
SelectionKind    : None
WindowSize      : (80, 24)
SelectionPoint   : (-1, -1)
Caret           : (0, 0)
Window          : ((0, 0), (0/0, 0))
SelectionPlace   : ((-1, -1), (0/0, 0))
TabSize         : 4
KeyCount        : 0
```



The screenshot shows the Far Editor interface. The title bar indicates the file being viewed is 'view PowerShell_transcript.20110119190927.2836.1.txt' in the 'Far 2.0.1791 Administrator' session. The status bar at the top shows '\$Far.Editor', line '1200', column '1263', and '0%' completion. The main text area displays the properties of the selected file:

```

Frame           : ((0/0, 0)(0, 0))
Switching       : Auto
WordDiv         : ~!%^&*()|{|}: "<>?`-=\[];',./$#
Title           :
FileName        : C:\ROM\FarDev\Code\PowerShellFar\TabExpansion.ps1
SelectionKind    : None
WindowSize      : (80, 24)
SelectionPoint   : (-1, -1)
Caret           : (0, 0)
Window          : ((0, 0), (0, 0))
SelectionPlace   : ((-1, -1), (-1, -1))
TabSize         : 4
KeyCount        : 0
Id              : 1
Count           : 489
CodePage        : 1251
Strings         : {, <#, .SYNOPSIS,      TabExpansion implementation....}
SelectedLines    : {}
Lines           : {, <#, .SYNOPSIS,      TabExpansion implementation....}
Bookmark        : FarNet.EditorBookmark
ExpandTabs      : None
DeleteSource     : None
  
```


Viewer access

```
Far.Vi*] - Far 2.0.1791 Administrator
C:\...\PowerShellFar\TabExpansion.ps1 1251 12537 Col 0 0%

<#
.SYNOPSIS
    TabExpansion implementation.
    Author: Roman Kuzmin
#>

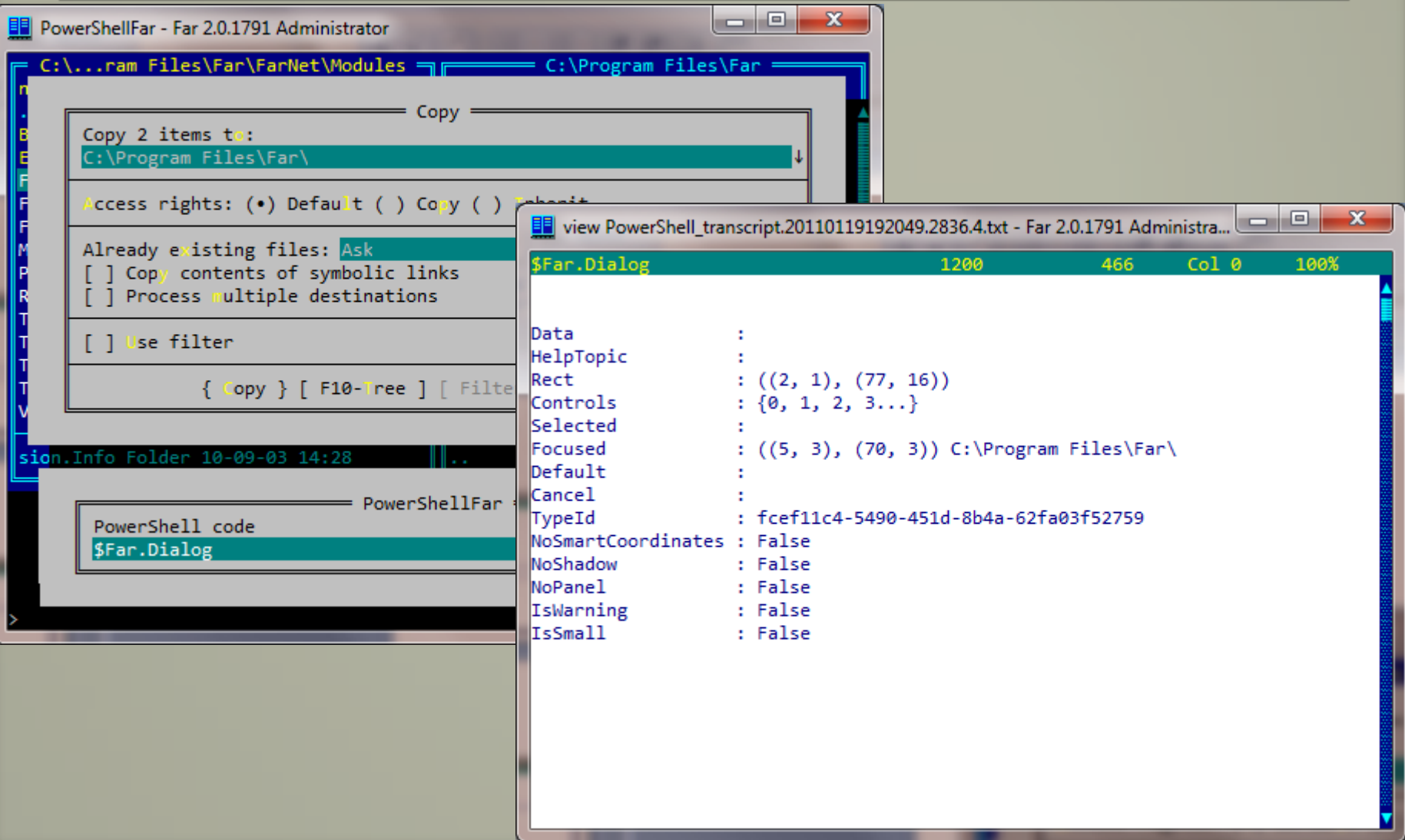
function global:TabExpansion
(
    PowerShell code
    $Far.Vi* [$Far.Vi*]
    $Far.Viewer
    $Far.Viewers(
    $prefWord = (2)
    if ($lastWord -match '^(.*(?:\s|\\|\'|\"|`))+')
    {
        $prefWord_ = $matches[1]
        $lastWord_ = $matches[2]
    }

    ### Expand
    $sort_ = $true
    $expanded_ = .{
        ### #<pattern>: custom patterns in FarH
```

```
view PowerShell_transcript.20110119191059.2836.2.txt - Far 2.0.1791 Administra...
$Far.Viewer 1200 432 Col 0 100%

Frame      : (0, 0)
Switching  : Auto
Title      :
FileName   : C:\ROM\FarDev\Code\PowerShellFar\TabExpansion.ps1
WindowSize : (80, 24)
Window     : ((0, 0), (0, 0))
FileSize   : 12537
Id         : 1
CodePage    : 1251
DeleteSource : None
TimeOfOpen  : 2011-01-19 19:10:25
WordWrapMode : False
WrapMode    : False
HexMode     : False
DisableHistory : False
```

Dialog access



Command line access

