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## Copy and Paste with Clipboard from PowerShell

September 3, 2010 [6 Comments](#)

Many times I want to use PowerShell to manipulate some text that I have in something else like email or a text editor or some such or conversely, I do something at the command line and I want to paste the output into a document of some kind.

I'm not sure why there is no cmdlet for outputting to clipboard.

01	PS> get-command out-*
02	
03	CommandType Name Definition
04	-----
05	Cmdlet Out-Default Out-Default [-InputObject <PSObject>] [-Verbose]...
06	Cmdlet Out-File Out-File [-FilePath] <String> [[-Encoding] <Stri...
07	Cmdlet Out-GridView Out-GridView [-InputObject <PSObject>] [-Title <...
08	Cmdlet Out-Host Out-Host [-Paging] [-InputObject <PSObject>] [-V...
09	Cmdlet Out-Null Out-Null [-InputObject <PSObject>] [-Verbose] [-...
10	Cmdlet Out-Printer Out-Printer [[-Name] <String>] [-InputObject <PS...
11	Cmdlet Out-String Out-String [-Stream] [-Width <Int32>] [-InputObj...

Fortunately, though Windows ships with a native clip.exe for piping text to clipboard. You can alias it to out-clipboard or just pipe to "clip".

```
1 new-alias Out-Clipboard $env:SystemRoot\system32\clip.exe
```

Now you can just pipe to Out-Clipboard or clip just like the other Out-\* cmdlets.

The larger issue is that PowerShell doesn't expose a way to paste text from the clipboard. However, the WinForms API of the .NET Framework has a GetText() static method on the [System.Windows.Forms.Clipboard class](#). There is a catch, though:

The Clipboard class can only be used in threads set to single thread apartment (STA) mode. To use this class, ensure that your Main method is marked with the [STAThreadAttribute](#) attribute.

This is unfortunate because PowerShell runs in a multithreaded apartment by default which means that the workaround is to spin up a new PowerShell process which is slow.

```
1 function Get-ClipboardText()
2 {
3     $command =
4     {
5         add-type -an system.windows.forms
6         [System.Windows.Forms.Clipboard]::GetText()
7     }
8     powershell -sta -noprofile -command $command
9 }
```

A slightly less obvious approach is to paste the text from the clipboard into a non-visual instance of the [System.Windows.Forms.TextBox](#) control and then emit the text of the control to the console. This works fine in a standard PowerShell process and is substantially faster than spinning up a new process.

```
1 function Get-ClipboardText()
2 {
3     Add-Type -AssemblyName System.Windows.Forms
4     $tb = New-Object System.Windows.Forms.TextBox
5     $tb.Multiline = $true
6     $tb.Paste()
7     $tb.Text
8 }
```

the text from the clipboard versus 0.001 seconds to use the TextBox control in the current process.

I also alias this function to “paste”. The commands I actually type and remember are “clip” and “paste”.

When using paste, I generally am setting a variable or inserting my pasted text into a pipeline within parens.

**CAVEAT: Whenever you capture a value without any {CR}{LF}, the clipboard will add it. You may need to trim the newline to get the behavior you expect when pasting into a pipeline.**

Here’s some one-liners to illustrate. I have [dig from BIND](#) in my path and I have [Select-String aliased to grep](#). Notice how when I paste the IP address I captured to the clipboard from the one-liner gets pasted back with an extra blank line.

```
01 PS> ((dig google.com) | grep '^google\.com') -match '(\d+\.\d+\.\d+\.\d+)$' | out-null; $matches[0]
02 72.14.235.104
03 PS> ((dig google.com) | grep '^google\.com') -match '(\d+\.\d+\.\d+\.\d+)$' | out-null; $matches[0] | clip
04 PS> paste
05 72.14.235.104
06
07 PS> ping (paste)
08 Ping request could not find host 72.14.235.104
09 . Please check the name and try again.
10 PS> ping (paste).trim()
11
12 Pinging 72.14.235.104 with 32 bytes of data:
13 Reply from 72.14.235.104: bytes=32 time=192ms TTL=51
14 Reply from 72.14.235.104: bytes=32 time=208ms TTL=51
15 Reply from 72.14.235.104: bytes=32 time=212ms TTL=51
16 Reply from 72.14.235.104: bytes=32 time=210ms TTL=51
17
18 Ping statistics for 72.14.235.104:
19     Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
20     Approximate round trip times in milli-seconds:
21         Minimum = 192ms, Maximum = 212ms, Average = 205ms
```



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## 6 Responses to *Copy and Paste with Clipboard from PowerShell*

1. Pingback: [debug » Goo.gl + PowerShell](#)

2.  [Dave Regal](#) says:  
[March 7, 2011 at 10:08 pm](#)

Hey, Thanks for sharing what you found. I found a way to stay within the realms of Powershell. I need to enhance it so it takes the text as an input variable, but here’s what I got so far.

```
#####
# Copy-Text.ps1
#
# The script copies a string variable to system clipboard.
# Credit: http://blogs.msdn.com/b/powershell/archive/2009/01/12/copy-console-screen-to-system-clipboard.aspx

$text = "This is my text"

# Load System.Windows.Forms assembly.
$null = [Reflection.Assembly]::LoadWithPartialName("System.Windows.Forms")

# Create data object.
```

```
$dataObject = New-Object windows.forms.dataobject

# Add generated strings to data object.
$dataObject.SetData([Windows.Forms.DataFormats]::UnicodeText, $true, $text)

# Put data object in system clipboard.
[Windows.Forms.Clipboard]::SetDataObject($dataObject, $true)

'The text has been copied to system clipboard.'
'You can now paste it to any application that supports text.'
```

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3. [Dave Regal](#) says:  
[March 7, 2011 at 10:09 pm](#)

Oh yeah, you have to run it differently.

```
> powershell -nopprofile -sta -command .\Copy-Text.ps1
```

[Reply](#)

4. [Justin Dearing](#) says:  
[March 16, 2011 at 3:04 pm](#)

Thanks for the alias and the script!!!

I opened up a connect bug to add native cmdlets and a PSDrive for accessing the clipboard. If you think that would be a good idea you can vote on the issue: <https://connect.microsoft.com/PowerShell/feedback/details/651777/implement-cmdlets-to-get-data-in-and-out-of-the-windows-clipboard>

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5. Pingback: [How to copy files through a remote desktop connection using clipboard and PowerShell](#) « Second Life of a Hungarian SharePoint Geek



6. [Stephen](#) says:  
[November 29, 2011 at 8:21 pm](#)

This is a very useful powershell feature, and your usage of Dig and Grep just blew my mind a bit. It suddenly stopped looking like a PoSh command line and more like Bash.

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