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## Windows PowerShell Get-Help on Cmdlet 'Get-TypeData'

PS:\>Get-HELP Get-TypeData -Full

NAME

Get-TypeData

## SYNOPSIS

Gets the extended type data in the current session.

## SYNTAX

Get-TypeData [[-TypeName] <System.String[]>] [<CommonParameters>]

### DESCRIPTION

The `Get-TypeData` cmdlet gets the extended type data in the current session. This includes type data that was added to the session by `Types.ps1xml` file and dynamic

type data that was added by using the parameter of the `Update-TypeData` cmdlet.

You can use the extended type data that `Get-TypeData` returns to examine the type data in the session and send it to the `Update-TypeData` and `Remove-TypeData`

cmdlets.

Extended type data adds properties and methods to objects in PowerShell. You can use the added properties and methods in the same ways that you would use the

properties and methods that are defined in the object type. However, when writing scripts, be aware that the added properties and methods might not be present in

every PowerShell session.

For more information about `Types.ps1xml` files, see about\_Types.ps1xml (../Microsoft.PowerShell.Core/About/about\_Types.ps1xml.md). For more information about dynamic type data that the `Update-TypeData` cmdlet adds, see `Update-TypeData`.

This cmdlet was introduced in Windows PowerShell 3.0.

#### PARAMETERS

-TypeName <System.String[]>

Specifies type data as an array only for the types with the specified names. By default, `Get-TypeData` gets all types in the session.

Enter type names or a name patterns. Full names, or name patterns with wildcard characters are required, even for types in the System namespace. Wildcards are

supported and the parameter name TypeName is optional. You can also pipe type names to `Get-TypeData`.

Required? false

Position? 0

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? true

#### <CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug,

ErrorAction, ErrorVariable, WarningAction, WarningVariable,

OutBuffer, PipelineVariable, and OutVariable. For more information, see

about\_CommonParameters (https:/go.microsoft.com/fwlink/?LinkID=113216).

#### INPUTS

#### System.String

You can pipe strings containing type names to this cmdlet.

#### OUTPUTS

System.Management.Automation.Runspaces.TypeData

#### NOTES

`Get-TypeData` gets only the extended type data in the current session. It does not get extended type data that is on the computer, but has not been added to the

current session, such as extended types that are defined in modules that have not been imported into the current session.

----- Example 1: Get all extended type data -----

Get-TypeData

----- Example 2: Get type data by name ------

Get-TypeData -TypeName System.IO.\*

TypeName Members

-----

System.IO.DirectoryInfo {[Mode, System.Management.Automation.Runspaces.CodePropert.

System.IO.FileInfo {[Mode, System.Management.Automation.Runspaces.CodePropert.

Example 3: Get the script block that creates a property value

(Get-TypeData \*EventLogEntry\*).Members.EventID

The command uses the `Get-TypeData` cmdlet to get the extended type data for the System.DataTime type. The command gets the Members property of the TypeData object.

The Members property contains a hash table of properties and methods that are defined by extended type data. Each key in the Members hash table is a property or

method name and each value is the definition of the property or method value.

The command gets the DateTime key in Members and its GetScriptBlock property value.

The output shows the script block that creates the value of the DateTime property of every System.DateTime group the script block that creates the value of the DateTime property of every System.DateTime group the script block that creates the value of the DateTime property of every System.DateTime group the script block that creates the value of the DateTime property of every System.DateTime group the script block that creates the value of the DateTime property of every System.DateTime group the script block that creates the value of the DateTime property of every System.DateTime group the script block that creates the value of the DateTime property of every System.DateTime group the script block that creates the value of the DateTime property of every System.DateTime group the script block that creates the value of the DateTime property of every System.DateTime group the script block that creates the value of the DateTime property of every System.DateTime group the script block that creates the value of the DateTime property of every System.DateTime group the script block that creates the value of the DateTime property of every System.DateTime group the script block that creates the value of the DateTime property of every System.DateTime group the script block that creates the value of the DateTime property of every System.DateTime group the script block that creates the script block that creates the value of the DateTime property of every System.DateTime group the script block that creates the script block that creates the value of the DateTime property of every System.DateTime group the script block that creates the script bl

PowerShell.

## RELATED LINKS

Online

Version:

https://learn.microsoft.com/powershell/module/microsoft.powershell.utility/get-typedata?view=powershell-5.1&WT.mc\_id=ps-

gethelp

about\_Types.ps1xml

Remove-TypeData

Update-TypeData