

# Objects, Properties and Methods

## Part 2 Methods

Let's take a look at some examples using Methods:

We're going to be using get-process and the process named notepad

- First let's open notepad, open your search bar and press notepad, minimize to the taskbar
- **Type get-process, press return, press return again. Scroll up, and we see that notepad is running. Press return and cls.**
- **Type get-process -name notepad** press return, now press return again

In our boat and car **illustration** we showed you that **objects** contain **properties** and **methods**, but when we take a look at get-process there are no methods or properties listed.

So, the question is, how can I display the **property or methods** for **get-process**?

- By using a special command called **get-member**. We'll use the **alias gm for get-member**.
- Type **get-process -name notepad | gm.** (Use pipe operator) That's the symbol right above the enter key. Press your shift key and your pipe operator.  
**If you recall**, a pipeline takes the output of one command and pushes it through to the input of the second command.

So, get-process has a process called notepad, and you're piping the **output of notepad** into the input of get-member. Press return

- There is some very important information, when using **get-member**.  
It's **TypeName**. Typename tells us **what kind of object that is being sent across the pipeline**. In this case the **TypeName** is **System.Diagnostics.Process** but we'll just use the **last part** which is **process**. Just keep that in mind, you'll need it later when we get to the **pipeline lecture**.
- Notice the **method** called **kill**. Kill is definitely an **action**.  
**Go ahead and type this out then we'll explain it**
- **Type (Get-Process Notepad).kill()**
- To use a **method** of an object, **Place the cmdlet name and the argument in parenthesis, then type a dot (.), then the method name, and a set of parentheses "()"**.  
The parentheses are **required** for every **method call**, even when there are no arguments.

The point is that we don't need a separate cmdlet to close the process notepad we have the method kill. Press return  
And we see that **notepad** has been closed.

### Let's try another example of using Methods

- **Let's say** we want to copy files from one location to another. In this case we'll use the **get-childitem** command.
- **Let open** windows explorer, **for demonstration purposes** I've created a **folder named content**.  
Double click on content and we have a text file named **computers**. click that file and displayed is the contents of the text file.
- **Now we want to copy this file from the C:\content folder to the c:\test folder using a method called copyto.**

Type get-childitem | GM – (Pipe operator) press return

Notice the get-childitem TypeName: is **FileInfo**

We'll use the copyto method to copy a file from one location to another

- **We don't need a cmdlet, not when we have the copyto method, press return**

Let's go ahead and type the command then I'll explain it.

Type **(Get-childitem C:\content\computers.txt). copyto("C:\test\computers.txt")**

- **Put the cmdlet name and the argument in parenthesis then type a dot (.), the method name, in this case is copyto. and a set of parentheses "()".**  
**If the method has arguments, place the argument values inside the parentheses.**  
**In this case we also added the quotation marks, and press return**
- And we see that the copyto method was successful. Go out to explorer and the test folder, and there is our text file.

**This was just two examples of using methods, but it gives you an idea of how to use methods to accomplish an everyday task.**