



2018

PowerShell - A one trick unicorn

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Agenda



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What, why, PowerShell

Objects, why?

Formatting

Performance

Demos

A lot of Unicorns!

Unicorn Facts!



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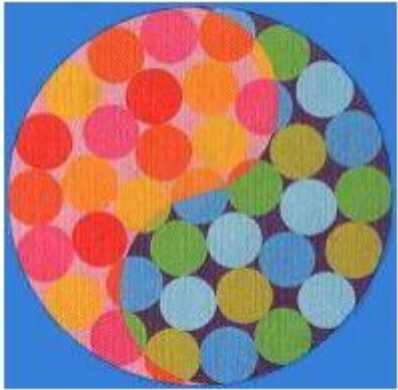
Unicorns do not have wings!



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The PowerShell language

PowerShell



Monad¹² Manifesto

Welcome to the PowerShell-6.0.0-x64
Setup Wizard

The Setup Wizard will install PowerShell-6.0.0-x64 on your
computer. Click Next to continue or Cancel to exit the Setup
Wizard.



Windows PowerShell

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

PS C:\Users\Jaap Brasser>
```

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More than the language...

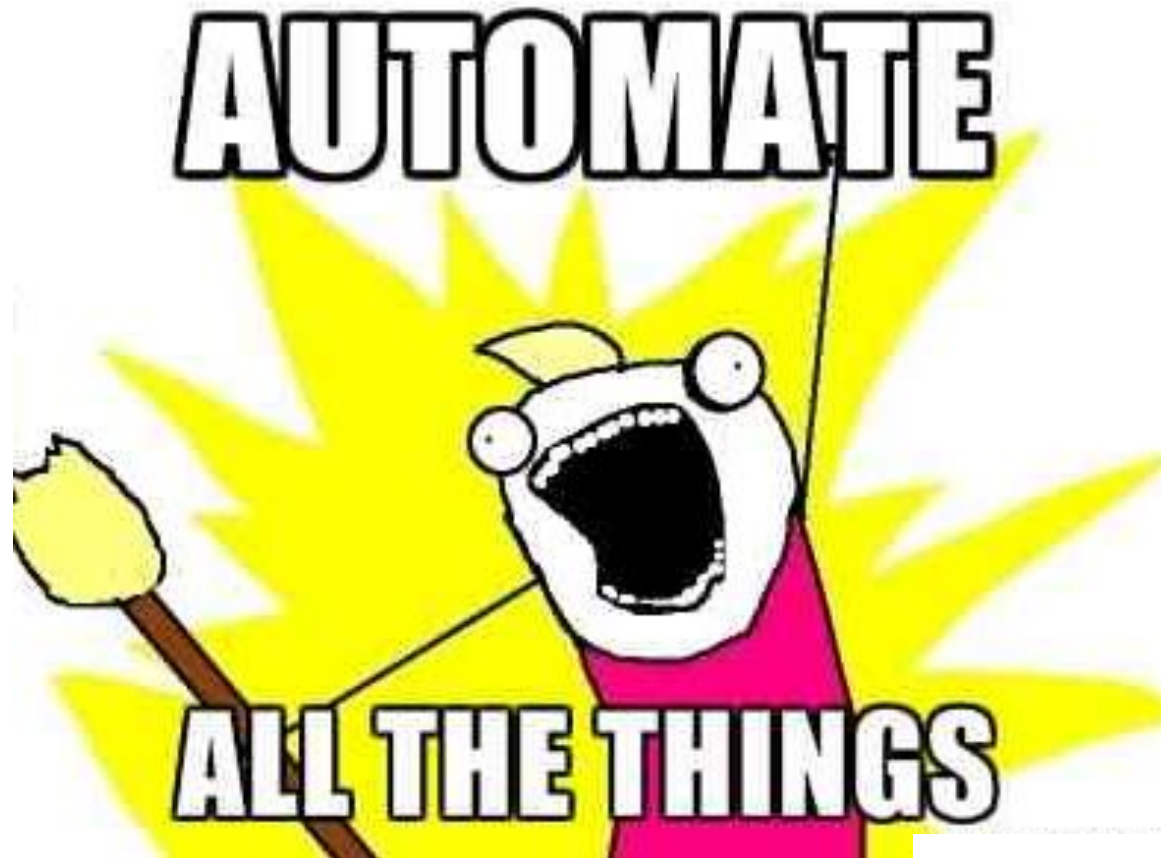


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But what are we trying to do



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How can we get there...

By using PowerShell...

- ≥ We make scripts
- ≥ We create functions
- ≥ We develop advanced functions
- ≥ We package in modules
- ≥ We share online

Share your success



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Objects, why?





Structured output

PowerShell is an object-based scripting language

- ≥ Structured output is easily converted
- ≥ Can be used throughout the pipeline

Unicorn Facts!



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Unicorns exist in Asian mythology



```
PS C:\Users\Jaap Brasser> Write-Host -ForegroundColor Green  
'True' -NoNewline;Write-Host ' / ' -NoNew;Write-Host -Foregr  
oundColor Red 'False'  
True / False
```

Unicorn Facts!



True:

In Chinese/Japanese mythology a Qilin/Kirin is a one horned creature, often translated to Unicorn.



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Performance



We want it faster

Determine when you want to make it faster

- ≥ Avoiding pipeline
- ≥ Use regular expressions
- ≥ Filter on the left
- ≥ Use .Net/Com objects
- ≥ Parallel execution

Unicorn Facts!



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A baby unicorn is called a puppy



PS C:\Users\Jaap Brasser> Write-Host -ForegroundColor Green
'True' -NoNewline; Write-Host ' / ' -NoNew; Write-Host -Foregr
oundColor Red 'False'
True / False

False

It is referred to as a sparkle

Unicorn Facts!



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False:

It is referred to as a sparkle



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Formatting

Formatting your strings

Strings and everything else

- ≥ Double and single quotation marks
- ≥ Here-strings
- ≥ -f format operator
- ≥ Regular expressions
- ≥ .Net methods and classes

Formatting your code

PowerShell Coding

- ≥ How to line break
- ≥ Brackets ?
- ≥ How to use splatting to write better code
- ≥ Store script blocks in variables

Unicorn Facts!



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The pope bought a unicorn horn



```
PS C:\Users\Jaap Brasser> Write-Host -ForegroundColor Green  
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oundColor Red 'False'  
True / False
```

Unicorn Facts!



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True:

In 1560, German merchants sold a unicorn horn for an astronomical 90,000 scudi—then about £18,000—to the pope.



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Thank you



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