



PowerShell Conference Europe

# Getting Started with PowerShell TUIs

<https://github.com/jdhitsolutions/PSConfEU2023>



**PRAGUE23**  
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## PowerShell Conference Europe



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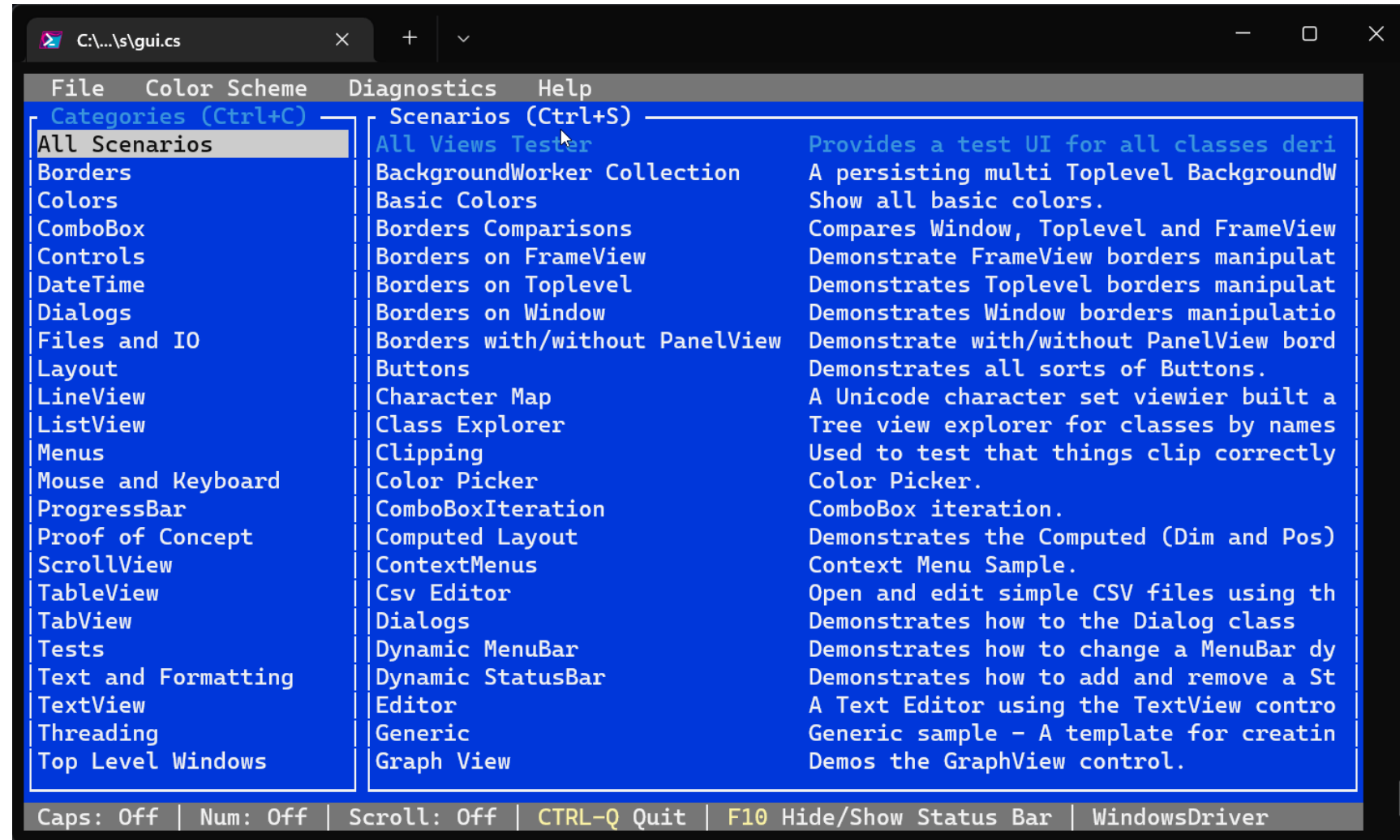
<https://jdhitsolutions.github.io>



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# Terminal User Interface

- Console-based user interface
- Requirements
  - Terminal.Gui
  - Nstack
- Runs cross-platform
  - PS5.1
  - PS7.x
- Version 2.x in dev
  - No Nstack requirement



# Out-ConsoleGridView



- Install-Module  
Microsoft.PowerShell.ConsoleGuiTools
- Supports multi-selection
- PowerShell 7 only
- Uses an out-dated version of  
TerminalGui
- `Get-Process | Out-GridView`

Administrator: PS7-Preview

Out-ConsoleGridView

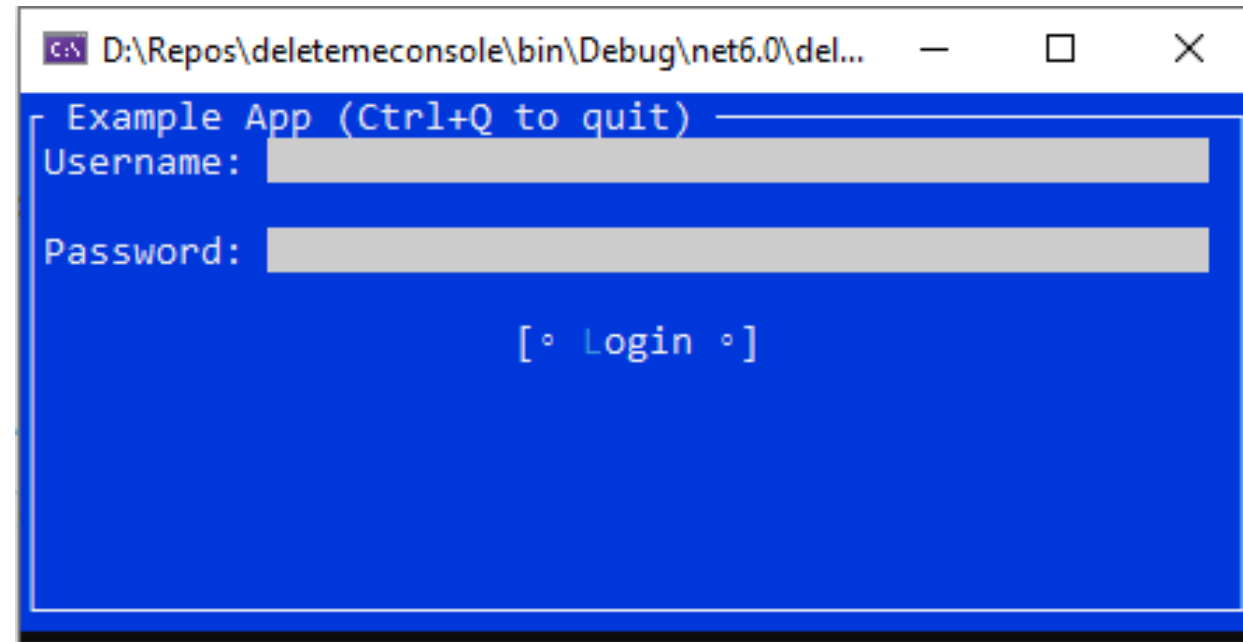
Filter

	NPM(K)	PM(M)	WS(M)	CPU(s)	Id	SI	ProcessName
	-----	-----	-----	-----	--	--	-----
- 23	36.75	19.21	17.23	16236	1	1	Password
- 31	32.95	36.09	33.98	18512	1	1	Password
- 14	12.22	11.21	0.70	35768	1	1	Password
- 9	3.91	8.77	0.55	9168	0		AggregatorHost
- 13	14.72	27.29	0.00	45960	1		ai
- 28	21.42	34.38	0.45	23856	1		ApplicationFrameHost
- 9	1.70	6.17	0.00	33752	1		AppVShNotify
- 12	7.40	13.18	16.42	21388	0		audiodg
- 33	17.37	2.68	0.05	18388	1		backgroundTaskHost
- 28	31.28	28.87	0.19	10320	0		Box.Desktop.UpdateService
- 7	0.96	2.51	0.25	6132	0		cdagtsvc_v1.0.0_x86
- 5	0.74	3.19	0.20	3520	0		cdarbsvc_v1.2.0_x64
- 6	2.41	4.76	0.00	22692	1		cmd
- 6	4.39	5.61	0.02	40768	1		cmd
- 7	5.10	8.66	0.00	3752	0		conhost
- 9	2.79	1.05	3.12	15408	0		conhost
- 7	2.46	1.07	0.06	18464	0		conhost
- 11	5.83	11.15	3.16	27664	1		conhost
- 8	5.30	9.73	5.22	31896	0		conhost
- 8	1.27	4.04	0.02	6412	0		CptService
- 9	1.51	5.83	0.00	4032	1		crashpad_handler
- 9	1.40	5.87	0.03	4880	1		crashpad_handler
- 9	1.33	7.36	0.00	8560	1		crashpad_handler
- 9	1.48	5.80	0.06	10920	1		crashpad_handler
- 8	1.36	5.41	0.02	20156	1		crashpad_handler
- 8	1.41	5.44	0.00	20564	1		crashpad_handler
- 9	1.41	5.73	0.03	25360	1		crashpad_handler
- 9	1.43	5.68	0.00	32460	1		crashpad_handler

SPACE Select Item | CTRL-A Select All | CTRL-D Select None | ENTER Accept | ESC Close

## Terminal.Gui

- Build cross-platform apps
- Mouse and Keyboard input
- Flexible Layout
- Clipboard support
- Support for loops, timers, and event handlers
- Conceptually similar to scripting with WPF





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# Show Me

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# Resources

<https://github.com/gui-cs/Terminal.Gui>

<https://gui-cs.github.io/Terminal.Gui/index.html>

<https://blog.ironmansoftware.com/tui-powershell>





# Find Me Online

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<https://jdhitsolutions.github.io>





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Thank you.

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