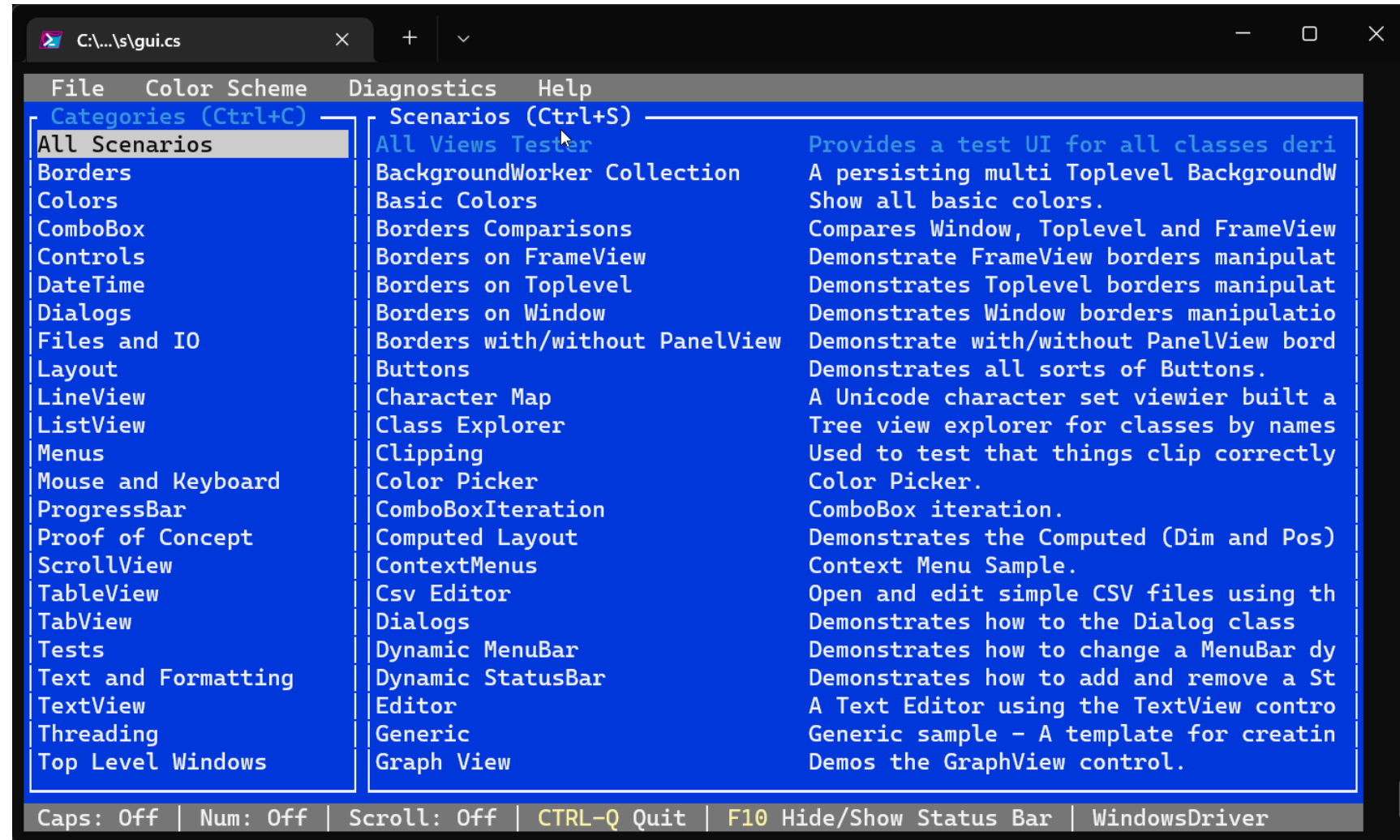# Terminal User Interface

- 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

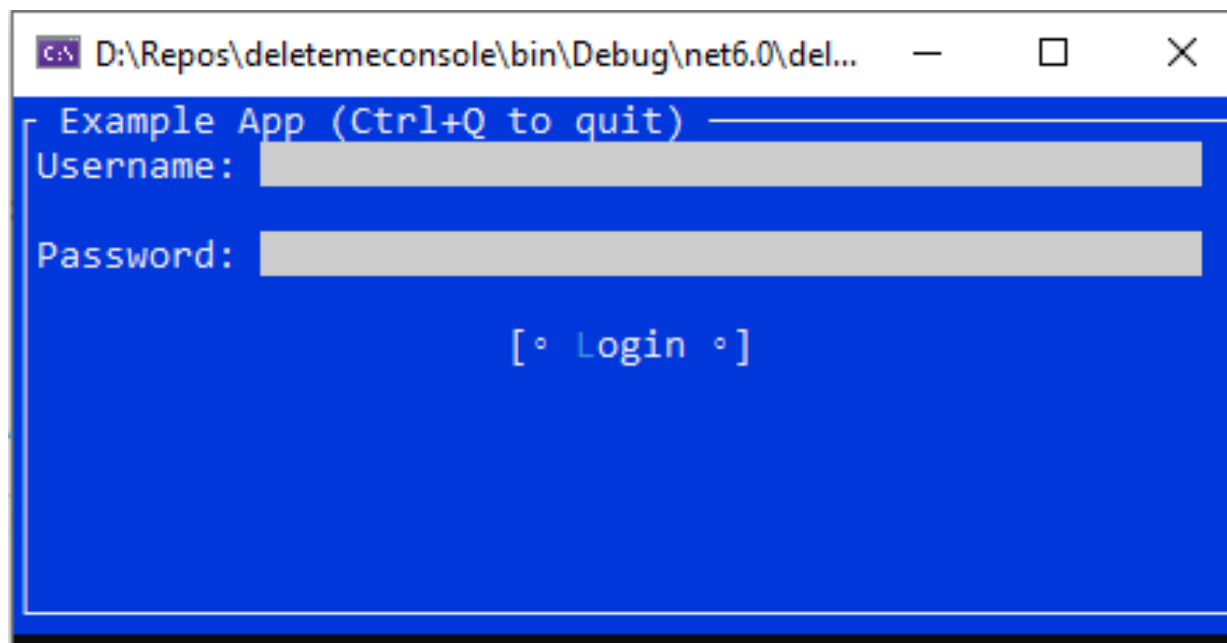- Uses an out-dated version of
  Terminal.Gui

```
┌ Out-ConsoleGridView ─────────────────────────────────────────────────────────────────┐
│  Filter  [                                                                          ]  │
│                                                                                        │
│       NPM(K) PM(M)     WS(M)  CPU(s)     Id     SI ProcessName                          │
│       ────── ─────     ─────  ──────     ──     ── ───────────                          │
│  ▌ 23      36.75    19.21   17.23     16236 1   1Password                              │
│  - 31      32.95    36.09   33.98     18512 1   1Password                              │
│  - 14      12.22    11.21   0.70      35768 1   1Password                              │
│  - 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

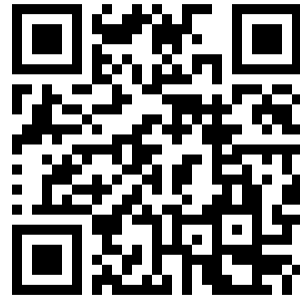- Conceptually similar to scripting with WPF

Show Me

https://github.com/jdhitsolutions/PSConfEU2023

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