PowerShell Conference Europe

Shell Enhancements

Steven Bucher

PRAGUE23

Many thanks to our sponsors:

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Steven Bucher

- Product Manager for the PowerShell Team
- California Native
- Wine enthusiast
- PSReadLine
- Interactive experience
- PowerShell Telemetry

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Interactive Design

- Natural feeling design
  - Non-intrusive and low disruptive design
- Shell being as assistive as possible
- Bringing more intelligence to the interactive experience

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Shell Assistive Scenarios

Subtle	Ask	Suggest	Recover
Should never feel disruptive	To avoid disruption, should only happen on *user request*	Must be opt-in because impact is dictated by user preference	Once you hit ENTER, you can't go back
Simple and small		Usually a "guess" or "gamble" that may or may not help the user	The best we can do at this point is to help you understand what went wrong and how to make a correction
- IntelliSense	**- Tab Completion**		
- Spell Check	**- PSSA**	**- Plugin Predictors**	
- History Predictor			**Feedback providers**

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PowerShell Predictive IntelliSense

- Implemented in order to accelerate and enhance your interactive CLI experience

- Two type of predictors
  - History
  - Plugin

- History for acceleration

- Plugins for enhancement

Demos
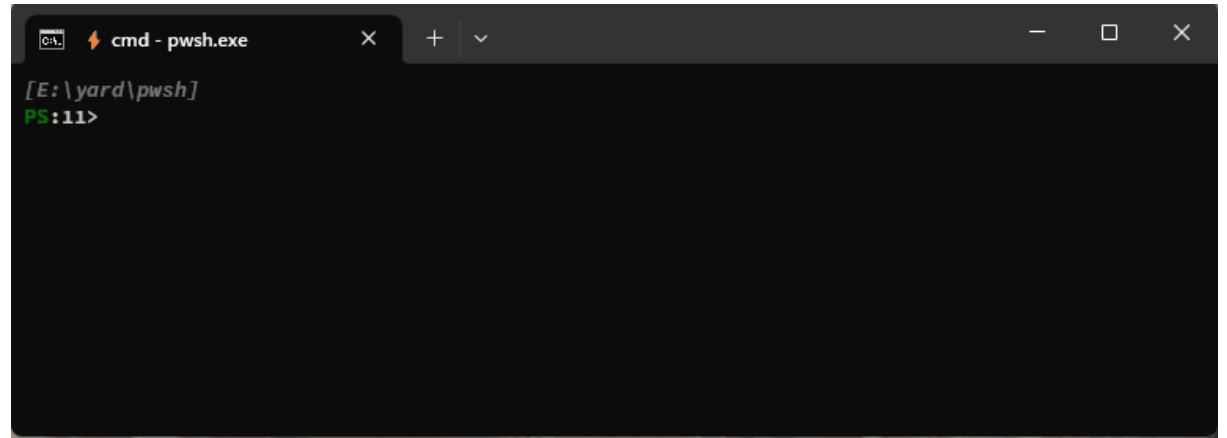
We love Demos!

START-DEMO

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Some AWESOME Plugin Predictors

- Completion Predictor

- Az.Tools.Predictor

- Community Predictors
  - PnP.PowerShell.Predictor
  - PowerType
  - Directory Predictor
  - And many more!

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Improvements to PSReadLine

- BUNCH of stability improvements

- Scrollable View

- Adjustable height

- Tooltip

- Deduplication

- Available in PSReadLine2.3.0-beta.

- Demo time again!

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Other Shell Enhancements from PSReadLine

- PSReadLine Key Handlers
- PSReadLine Options
  - CommandValidationHandler
- Sample Profile in module install folder

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Feedback Providers

- Predictors are preventative but we know errors will always be inevitable
- Next evolution of assistance in the shell

What *are* feedback providers??

- Feedback Providers are PowerShell modules that subscribe to the IFeedbackProvider interface
- Currently have one built in one to suggest installed cmdlets [General]
- Lots of development coming soon in the future
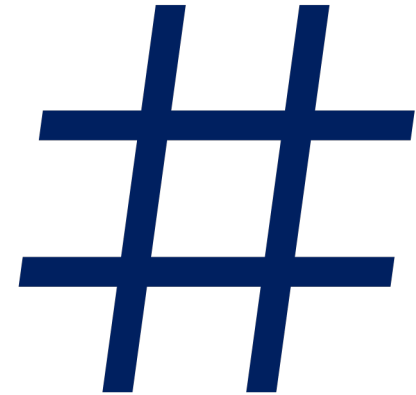
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What triggers Feedback Providers?

Error
- CommandNotFound
- ErrorRecordObject

Success

Comment

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How to keep up with Feedback Providers?

- [Main · Feedback Provider Roadmap (github.com)](github.com)
- Submit an Issue in PowerShell repo
  - Mention IFeedbackProvider interface
  - Or tag @StevenBucher98 on GitHub
- @StevenBucher13 on Twitter

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What is next for shell enhancements?

- GA PSReadLine 2.3 soon
- Continued feedback provider work
  - Documentation and content very soon
- JSON Adapter Module release in June
- A.I is of course top of mind

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Links

- [Completion Predictor v0.1.1 Release - PowerShell Team (microsoft.com)](#)

- [PSReadLine 2.3.1-beta1 Release - PowerShell Team (microsoft.com)](#)

- [Feedback Provider Roadmap](#)

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Q&A

15 minutes

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