

# Go Above and Beyond!

Customize / Contribute / Extend



Code for IBM i

# Who is this guy?

- Sébastien (Seb) Julliand
- Code for IBM i core team member
- IBM Champion 2024
- R&D Advisor / Tech Lead at ARCAD Software



# Customize

Make the most out of it



Code for IBM i

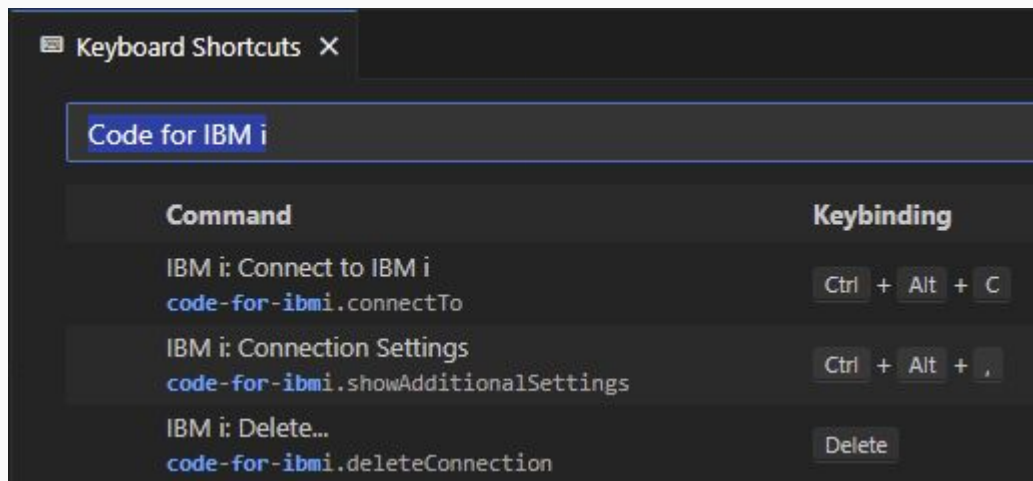
# Customize - Settings

- Automatize UI
  - Open after copy/move
  - Refresh after operation
  - Clear diagnostics/errors/output
- Default actions
  - Open mode
  - Drag'n'drop behavior



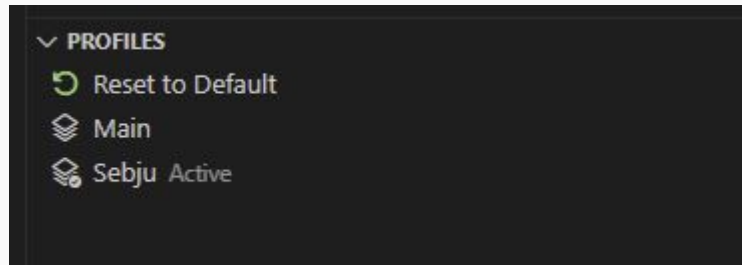
# Customize - Keyboard shortcuts

- Ctrl+K Ctrl+S
- Filter on “Code for IBM i”



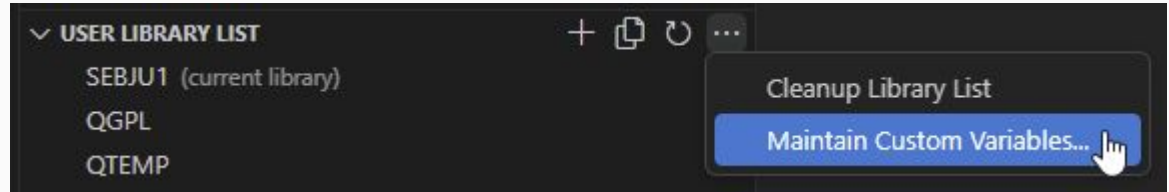
# Customize - Profiles

- Quickly switch between contexts
  - Object/IFS filters
  - Library list and Current library
  - Home directory
  - Custom variables



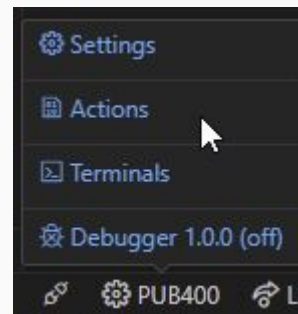
# Customize - Variables

- Define action variables
- Saved in profiles



# Customize - Actions

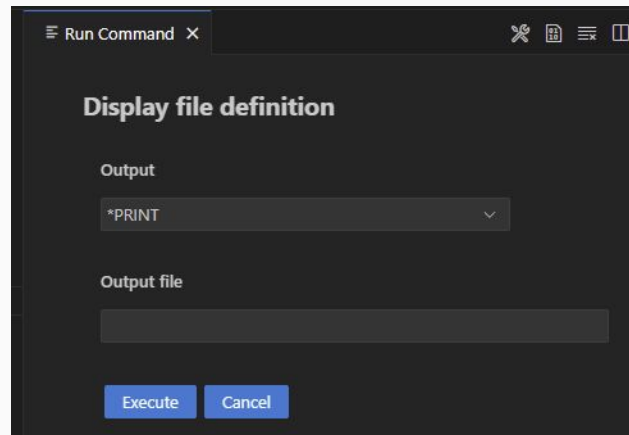
- Run one or more commands
- Supports variables (based on target's type)
  - Member
  - Streamfile
  - Object
  - Workspace file
- Supports custom prompts! (text and select inputs)
- Can refresh target's parent
- Ctrl + e





# Customize - Actions custom prompt

- Custom prompt example
  - Select: OUTPUT(\${output|Output|\*PRINT,\*OUTFILE})
  - Text: OUTFILE(\${outfile|Output file})



# Customize - Protected modes

- Prevents “mistakes” on sensitive LPARs
- Different levels
  - Global
  - By path (QSYS and IFS)
  - Object filter

✓ IFS BROWSER

> 📁 /home/SEBJU

> 📁 /tmp

> 📁 SEBJU SEBJU\*/\*/\*. (\*)

🔗 📁 PUB400 🔗 Live Share

> PSIMERO2 arcad\_pgmfr@PSIMERO2.quarcad.net

🔒 PUB400 SEBJU@PUB400.com

< QATEST01 arcad\_pgmfr@QATEST01.quarcad.net



# Contribute

Bring something to the table



Code for IBM i

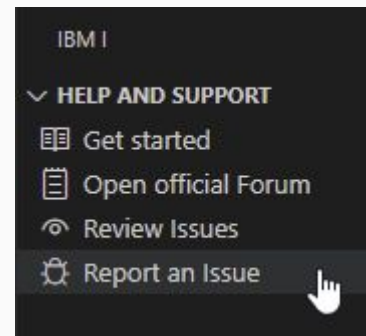
# Contribute - Discuss

- <https://github.com/orgs/codefori/discussions>
- Not for issues 😊
- Ask for tips or help
- Share ideas
- Engage with the community



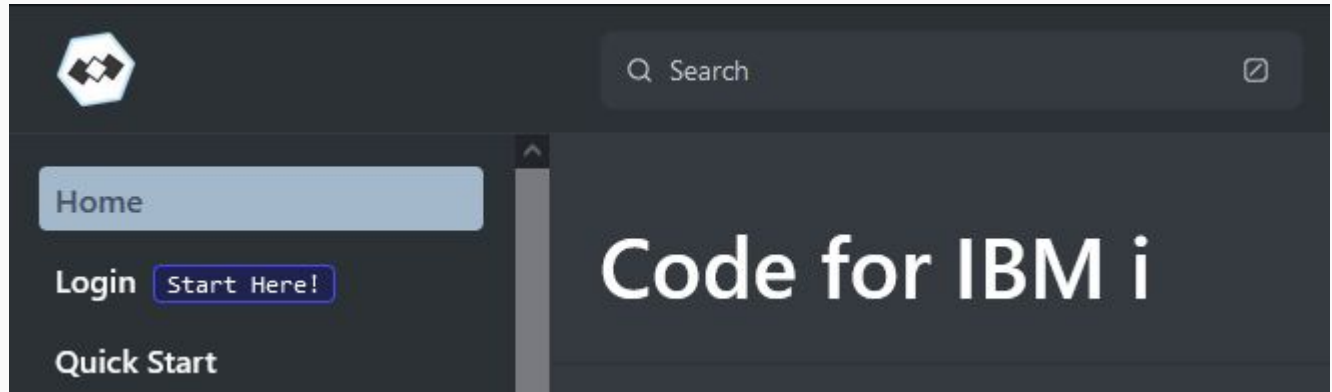
# Contribute - Issues section

- One Issues section per extensions
  - <https://github.com/codefori/vscode-ibmi/issues>
  - <https://github.com/codefori/vscode-db2i/issues>
  - ...
- Report issues
  - Use the Report action and complete the template!
  - Share 🙌 your 🙌 Code for IBM i 🙌 output
- Request for enhancement



# Contribute - Add/update documentation

- <https://github.com/codefori/docs>
- Every contribution is welcome



# Contribute - Code!

- Every contribution is welcome (again)
- Start simple and small
  - Fork
  - Code
  - Create a Pull Request
- “Good first issue”
- Ask for help



# Extend


Do what you want



Code for IBM i



# Extend - Requirements

- Node.js
- VSCode 
- TypeScript notions
- VS Code API <https://code.visualstudio.com/api/>
- A small and simple first idea



# Extend - Use a template

- <https://github.com/sebjulliand/vscode-extension-template/tree/code4i>
- Adds Code for i dependencies
- Provides translation support, build, packaging
- Provides debug task
- Grabs reference to Code for i runtime API
- Focus on coding!



# Extend - Code for i exported API

- Run SQL
- Execute commands
  - CL
  - Shell
- Do on events
  - Connected
  - Disconnected
  - Deploy location change
  - Deploy
- Custom UI
- Deployment API
- General purpose tools
- ...

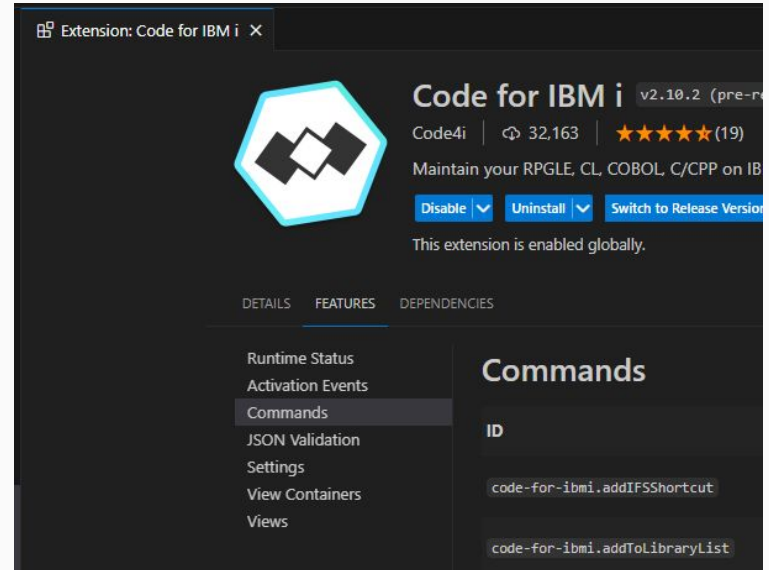


# Extend - Code for i commands

- Available to all
- Extension -> Features -> Commands
- Documentation needs an update 🥵
- Useful to refresh browsers
- Prioritize the API when possible



Code for IBM i



# Extend - View item contexts

- connectionBrowser
  - server
- ibmiDebugBrowser
  - debugJob\_(server|service)(\_on|\_off|)
- objectBrowser
  - filter(\_library)(\_readonly)
  - object.<type>(<attribute>)(\_library)(\_readonly)
  - SPF(\_readonly)
  - member(\_readonly)
- ifsBrowser
  - streamfile
  - directory(\_protected)
  - shortcut(\_protected)
- libraryListView
  - currentLibrary
  - library
- profilesView
  - resetProfile
  - profile
  - commandProfile



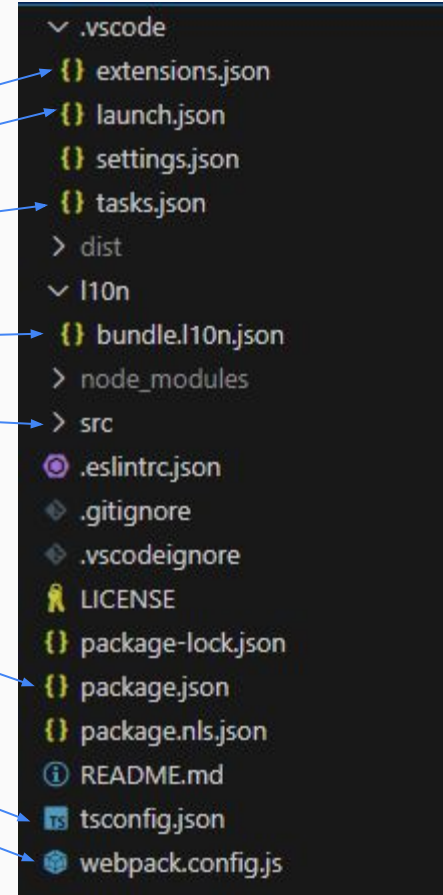
# Extend - Simple example extension

- <https://github.com/sebjulliand/extend-codefori>
- Based on my template
- Adds commands to palette
  - Run IBM i command
  - Open spooled file
- Adds an action on \*FILE
- Adds an action on member



# Extend - Components

- Required extensions
- Debug task
- Source code localization
- Source code
- Contributions
  - Commands
  - Menu
- TypeScript config
- Transpilation config



# Questions?

Don't be shy!



Code for IBM i





# Thank you !

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*"Come find me and let's have a chat!"*



Code for IBM i

A glowing neon sign with the text "Meet me for Coffee" in a white, cursive script. The sign is mounted on a dark, vertically-slatted wooden wall. The neon tubes are visible, and the sign is illuminated from within, casting a warm glow on the wall.