

Ask the Expert

Discover the Possibilities: SAS[®] Visual Studio Code Extension

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David joined SAS in 2020 as a solutions architect. He helps customers to define and implement data-driven solutions. David's focus is on implementing seamless integrations for solutions into the existing landscape. Previously, David was a SAS administrator/developer at an insurance company working with the integration capabilities of SAS and Python.

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Ask the Expert Webinar

David Weik, SAS Germany





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Time and Space for your questions

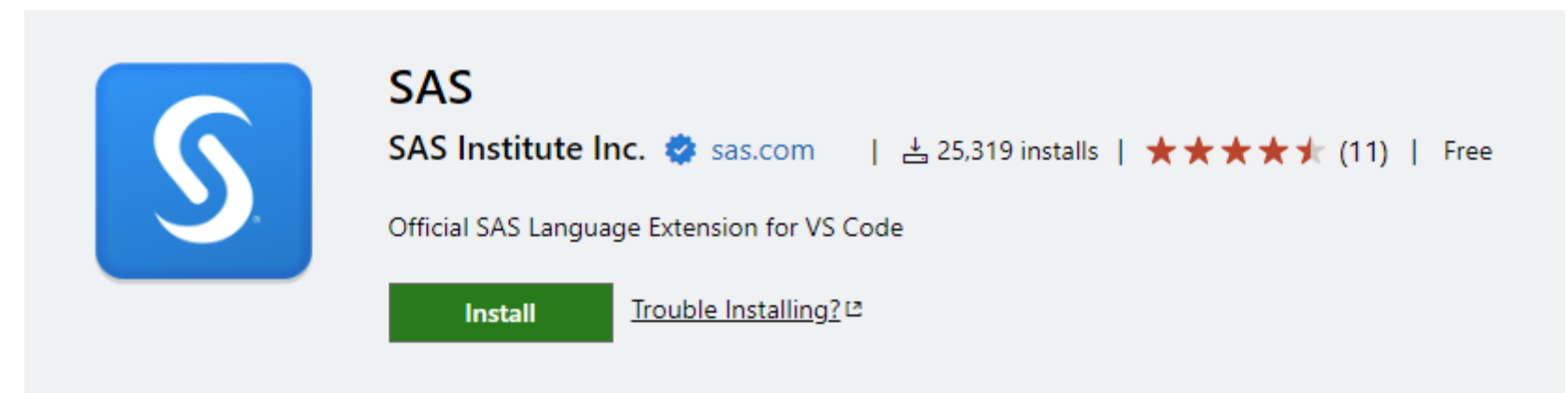
What is Visual Studio Code

- **Cross-platform:** Available for Windows, macOS, and Linux.
- **Free and open source:** Freely available and allows for customization by the community.
- **Versatile Language Support:** Supports numerous programming languages and frameworks.
- **Extensibility:** Includes a wide range of extensions for different development needs.
- **User-friendly interface:** Intuitive and customizable interface.
- **IntelliSense:** Provides auto-code completion and helpful hints during coding.
- **Git integration:** Built-in support for the Git version control system.

And what does SAS have to do with it?

An Extension!

- Develop and run SAS code
- Developed by SAS as an Open Source Project under the Apache 2.0 license available in different UI languages
- Supports:
 - SAS Viya
 - SAS 9.4 Local
 - SAS 9.4 Remote (SSH and IOM)



What do I need to connect with SAS Viya?

Name	Description
Name	Profile Name
Endpoint	Viya Endpoint
Compute Context	Name of the Compute Context
Client ID	Registered Client ID for SAS Viya
Client Secret	Registered Client Secret for SAS Viya

What do I need to connect to SAS 9.4 local

- Integration Technologies Client has to be installed (either during SAS 9.4 installation or as a standalone client from SAS Support)
- A Profile Name
- A Description

What do I need to connect to SAS 9.4 remote via SSH?

- SSH Key that is accepted by the SAS Server
- OpenSSH has to be configured
- Environment variables `SSH_AUTH_SOCK` have to be defined using `//./pipe/openssh-ssh-agent`

Name	Description
Name	Name of the profile
Host	SSH Server Host
Username	SSH Server Username
Port	SSH Server Port
SAS Path	Path to SAS Executable on the server

What do I need to connect to SAS 9.4 remote via IOM?

- Integration Technology Client
- IOM Server
- IOM Server Port
- A SAS User

```
"Profile Name": {  
  "connectionType": "iom",  
  "sasOptions": [],  
  "autoExec": [],  
  "host": "Remote SAS 9.4 Server",  
  "port": 8591 (this is the default port),  
  "username": "Your SAS 9.4 username"  
}
```

Demo



Summary

What have we seen?

- Choose a SAS theme
- Add an autoexec
- Using multiple profiles
- SAS Syntax-Highlighting
- SAS Autocompletion
- SAS Notebooks
- SAS Content Interaction
- SAS Libraries
- Integration with VS Code Tasks

Feedback, Suggestions, or Contributions welcome!

<https://github.com/sassoftware/vscode-sas-extension>

The screenshot shows the GitHub interface for the repository 'sassoftware / vscode-sas-extension'. At the top, there is a navigation bar with a search box containing 'Type / to search' and icons for repository actions. Below this is a secondary navigation bar with links for 'Code', 'Issues 66', 'Pull requests 8', 'Discussions', 'Actions', 'Projects 1', 'Wiki', 'Security', and 'Insights'. The repository name 'vscode-sas-extension' is displayed with a 'Public' badge. To the right of the name are buttons for 'Edit Pins', 'Watch 19', 'Fork 36', and 'Star 88'. Below the repository name, there are buttons for 'main', '16 Branches', and '18 Tags'. A search box 'Go to file' is present, followed by 'Add file', a green 'Code' button, and an 'About' link.

Q&A

