

sas innovate



A female megachile leafcutter bee collecting pollen from a blanket flower (*Gaillardia aristata*) to use in making a beeloaf. Image courtesy of Jim McCulloch.

Buzzing Through Data in SAS® Viya® Workbench With SAS and Python

SAS INNOVATE PRE-CONFERENCE SEMINAR

CHARU SHANKAR

Companion Document – Getting Started with SAS Viya Workbench



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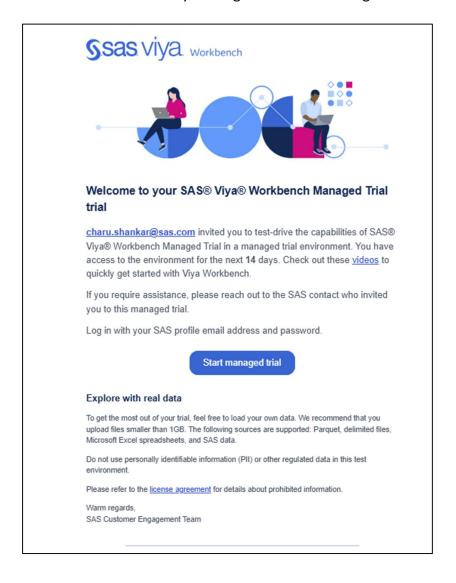


LAUNCH SAS Viya Workbench

• Locate the SASY Viya Workbench Managed trial email invitation From the SAS Customer Engagement Team.



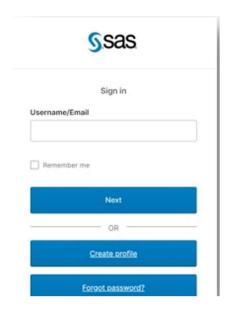
Launch Workbench by clicking on the Start Managed Trial link in the invitation email



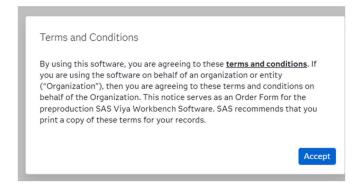


LOGIN With SAS Profile

You will then be promoted to sign in with your SAS Profile credentials. Click on create
 Profile if profile doesn't exist



Accept the terms and conditions
 (click on the terms & conditions & save those for your records)

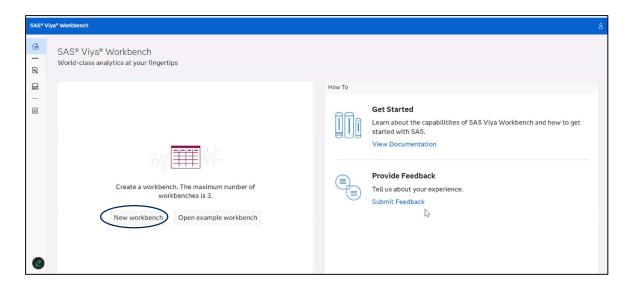


• Once logged in, you will land at the Workbench Home Page:

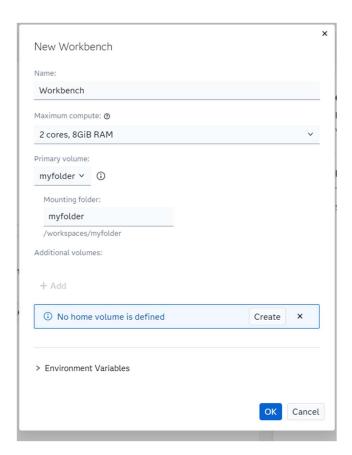
CREATE A New On Demand Computing Environment

Select New Workbench when you land at the Viya Workbench Home page





- Create a new workbench from the Workbench setting screen
- Retain the settings at their default; leave the maximum compute core to use at 2 cores and then click **OK**.



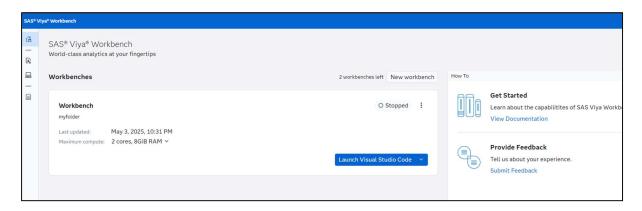
Your workbench is created!



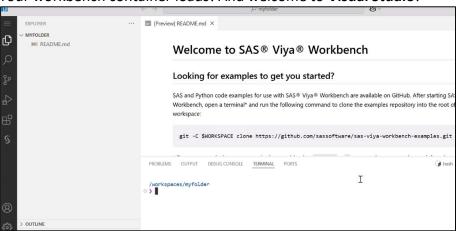
LAUNCH Visual Studio Code

VS Code in SAS Viya Workbench provides a versatile, integrated environment for coding, debugging, and managing data science projects, allowing users to efficiently work with both Python and SAS scripts.

Click the Open Visual Studio Code button:



Your workbench container loads! And welcome to Visual Studio!



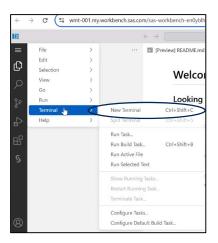
CLONE The GitHub Repository

To get the data for analysis, we'll clone the SASInnovate25 GitHub repository, where it's already available.

Note: You don't need to type "bash" before cd /workspaces/myfolder in SAS Viya Workbench because it already runs in a Bash shell, the default command-line environment for interacting with Linux systems.

 Click on the hamburger (3 horizontal lines) icon on the top left corner of your workbench screen & select New terminal

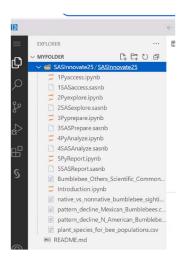




 In your terminal, navigate to the directory where you want to store your local copy of the repository



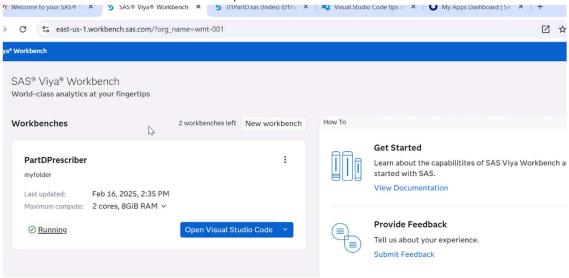
- Type the following command.
 - cd /workspaces/myfolder
- Clone your GitHub repository by typing the following command.
 git clone https://github.com/CharuSAS/SASInnovate25.git
- Close the terminal window by clicking the X button in the corner of the window.
- Expand the SASinnovate25 folder
- The cloned data and notebooks will be visible





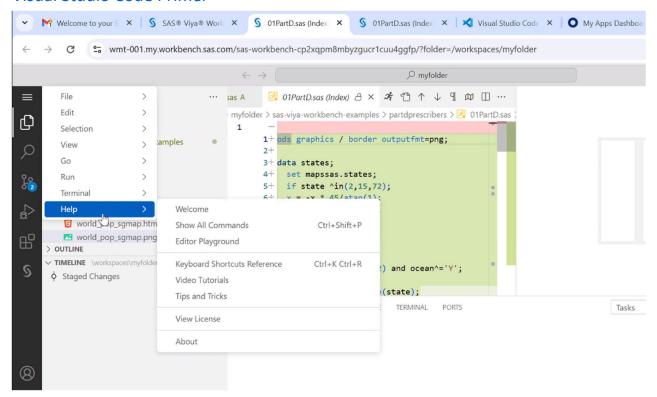
APPENDIX

Get started documentation for samples





Visual Studio Code Primer



Keyboard Shortcuts for Visual Studio Code

Use these keyboard shortcuts to save time spent on a project in Visual Studio Code.

Foundation	В	Aadd cell below
	M	Convert to markdown
	Υ	Cconverts to code cell
	Χ	Cut code
General	Ctrl+Shift+N	New window/instance (Opens a new window immediately)
	Ctrl+Shift+W	Close window/instance (Closes new window immediately)
Navigation	Ctrl+X	Cut line (empty selection) You can erase the whole line you selected.
	Alt+ ↑ / ↓	Move line up/down. Without having to erase
	Shift+Alt + ↓ / ↑	Copy line up/down. Copies the line as many times as you press the arrow.
	Ctrl+Shift+K	Delete line. This will delete the whole line instantly.
	Home / End	Go to beginning/end of line.
	Ctrl+Home	Go to beginning of file
	Ctrl+End	Go to end of file
Search and replace	Ctrl+F	Find. This will open the search global find sidebar.
	Ctrl+H	Replace. Opens the taskbar where you can specify replacement



	1	-
Multi-cursor and selection	Alt+Click	Insert cursor. You can insert the cursor on as many lines at once and write the same thing at the same time on all lines
	CTRL+D	Multi-select an element. E.g. change the H3 tags to the H4 tags (all of them) in a file. Select one H3 tag and use the shortcut. This will find every H3 tag and give you an active cursor for further action.
	Ctrl+U	Undo last cursor operation.
	Shift+Alt+I	Insert cursor at end of each line selected
	Ctrl+L	Select current line. Same as mouse copy and paste.
Rich language editing	Ctrl+Space	Trigger suggestion. The program will automatically suggest.
-	Shift+Alt+F	Format document
Editor	Ctrl+F4, Ctrl+W	Close editor
management		
	Ctrl+\	Split editor
	Ctrl+ 1 / 2 / 3	Focus into 1 st , 2 nd or 3 rd editor group
File Management	Ctrl+N	New File
ū	Ctrl+O	Open File
	Ctrl+S	Save
	Ctrl+Shift+S	Save As
	Ctrl+F4	Close
	Ctrl+Shift+T	Reopen closed editor
	Ctrl+Tab	Open next
Display	Ctrl+B	Toggle Sidebar visibility
	Ctrl+Shift+F	Show Search
	Ctrl+Shift+G	Show Source Control
	Ctrl+Shift+H	Replace in files
	Ctrl+Shift+U	Show Output panel
	Ctrl+Shift+V	Open Markdown preview
Integrated	Ctrl+`	Show integrated terminal
Terminal		
	Ctrl+Shift+`	Create new terminal