

# Getting .NET Interactive Notebooks

Jason Bock

## Personal Info

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## Downloads

<https://github.com/JasonBock/Collatz>

<https://github.com/JasonBock/Presentations>

# Overview

- Notebooks
- Demo
- Call to Action

Remember...

<https://github.com/JasonBock/Collatz>  
<https://github.com/JasonBock/Presentations>

# Notebooks

Getting .NET Interactive Notebooks



We've all used notebooks in our life (probably 😊). Whether it's for journaling, taking notes, sketching out ideas, it's a simple way to get our thoughts down.

<https://www.pexels.com/photo/brown-pencil-on-black-and-green-book-159865/>



But paper is a static medium. Wouldn't it be cool to make those notebooks interactive so we could share them with others, and they can run code within them?

<https://www.pexels.com/photo/multiethnic-colleagues-discussing-contract-on-paper-6457490/>




That's what Project Jupyter (Julia, Python, and R were the three code languages initially supported, if you're curious where the acronym came from) is. It allows you to create documents with embedded code and components to provide an interactive experience.

"Project Jupyter exists to develop open-source software, open-standards, and services for interactive computing across dozens of programming languages."

<https://jupyter.org/>





## .NET Interactive Notebooks


Preview

Microsoft | 118,374 installs | ★★★★★ (16) | Free

.NET Interactive Notebooks for VS Code. Git SHA e99bd250539a64e828b44cb9ad9353eeda9b5bc1

Install

[Trouble Installing?](#)



## Notebook Editor

Preview

Microsoft | 130 installs | ★★★★★ (0) | Free

Interactive Notebook Editor to write and share code, explore data, learn, and more in Visual Studio.

Download

In .NET, you have a couple of options to author notebooks. Let's demonstrate how we can do this.

<https://marketplace.visualstudio.com/items?itemName=ms-dotnettools.dotnet-interactive-vscode>

<https://marketplace.visualstudio.com/items?itemName=MLNET.notebook>

# Demo: Creating and Using a Notebook

Getting .NET Interactive Notebooks

Let's do the Collatz Conjecture as a notebook, showing results as well as a graph of the data.

# Call To Action

Getting .NET Interactive Notebooks



Try it out! It's pretty simple to create a notebook, and you might find yourself addicted to using it for demos and documentation.

<https://www.pexels.com/photo/young-woman-adjusting-glasses-in-optical-store-5766154/>

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- <https://github.com/JasonBock/Collatz>
- <https://github.com/JasonBock/Presentations>
- References in the notes on this slide

## ## References

- \* [jupyter site] (<https://jupyter.org/>)
- \* [ML.NET Updates & Announcing Notebooks in Visual Studio](<https://devblogs.microsoft.com/dotnet/ml-net-and-model-builder-october-updates/>)
- \* [.NET Interactive Site](<https://github.com/dotnet/interactive>)
- \* [.NET Interactive Preview 3: VS Code Insiders and .NET Polyglot Notebooks](<https://devblogs.microsoft.com/dotnet/net-interactive-preview-3-vs-code-insiders-and-polyglot-notebooks/>)
- \* [.NET Interactive with SQL!] .NET Notebooks in Visual Studio Code](<https://devblogs.microsoft.com/dotnet/net-interactive-with-sql-net-notebooks-in-visual-studio-code/>)
- \* [.NET Interactive is here! | .NET Notebooks Preview 2](<https://devblogs.microsoft.com/dotnet/net-interactive-is-here-net-notebooks-preview-2/>)
- \* [Announcing .NET Jupyter Notebooks](<https://www.hanselman.com/blog/AnnouncingNETJupyterNotebooks.aspx>)

- \* [Play C# and Tensorflow.NET with Jupyter Notebook (Part 1)](<https://medium.com/scisharp/play-c-and-tensorflow-net-with-jupyter-notebook-part-1-cdfb3f2f621>)
- \* [Using ML.NET in Jupyter notebooks](Using ML.NET in Jupyter notebooks)