

A composite image of space. The top half shows the Earth's horizon with a bright light source on the right. The bottom half shows a view of Earth from space, with city lights visible at night. The Moon is in the upper right corner.

**MEN FROM MARS
WOMEN FROM VENUS
BOTH CAN CODE .NET IN JUPYTER**

Ron Dagdag

STORY

Me

- .NET Developer since 2005
- .NET Framework 2.0
- Uses .NET for AR and IoT applications
- .NET Core
- Startup - Brand new software

Wife

- .NET Developer since 2003
- .NET Framework 1.0
- Maintain large enterprise applications
- .NET Framework
- Software that makes money

STORY

We both live in the same .NET Solar System in two different worlds

Then, we kept hearing there's another world out there

Jupyter and Data Science

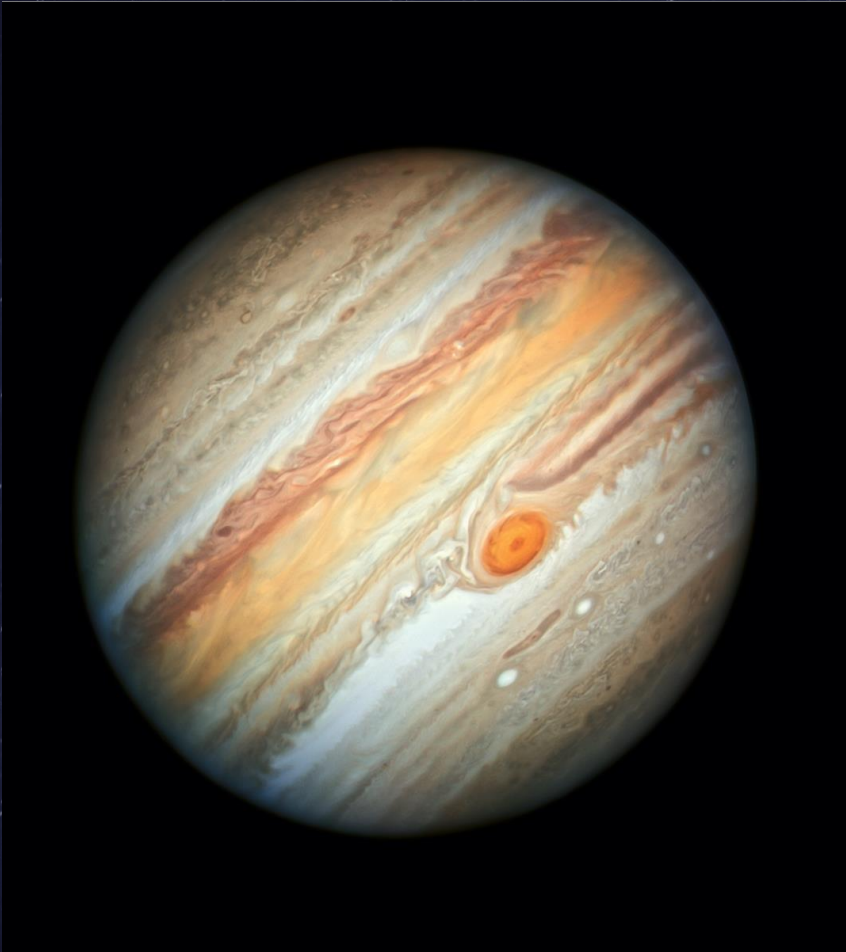
Pythonistas



PYTHONISTA

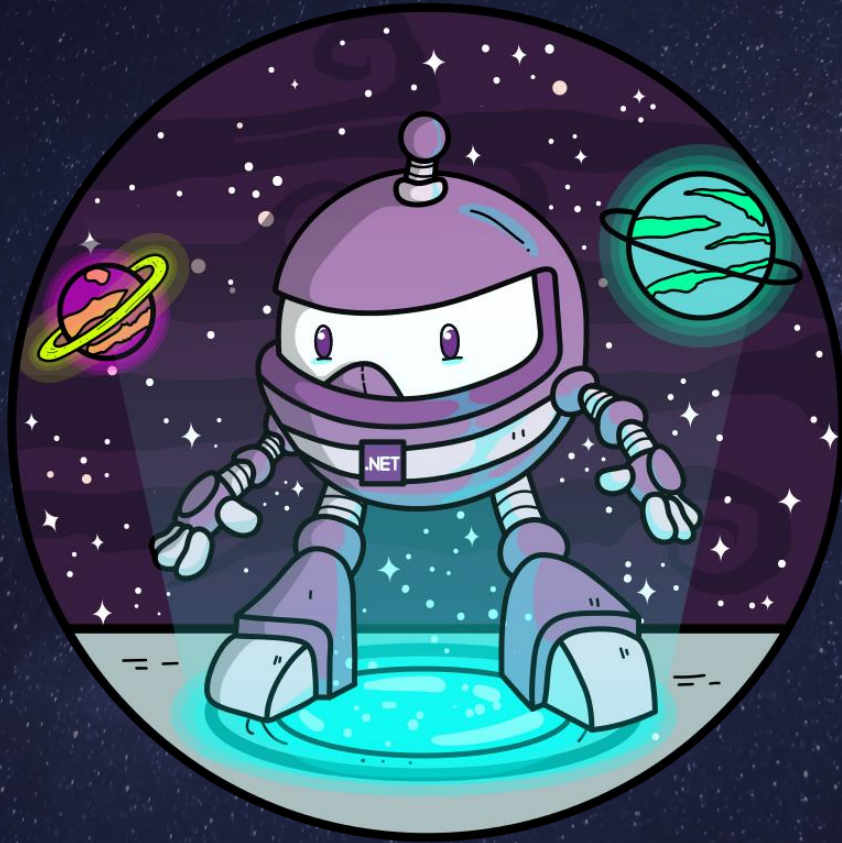


JUPYTER



- Julia, Python and R
- (IPython Notebooks)
- open-source web application
- create and share documents that contain
 - Live code
 - Equations
 - Visualizations
 - Narrative text.

.NET INTERACTIVE



.NET into interactive experiences

- Jupyter, nteract, Visual Studio Code

Share code, explore data, write, and learn across your apps

.NET IN JUPYTER NOTEBOOKS



- Kernels
 - Python, R
 - .NET (C#), .NET (F#)
 - Powershell
- Magic Commands
 - `#!smagic`
- PocketView
 - Display HTML
- Xplot (data visualization library)
 - Prints text, html, svg, charts

AZURE DATA STUDIO



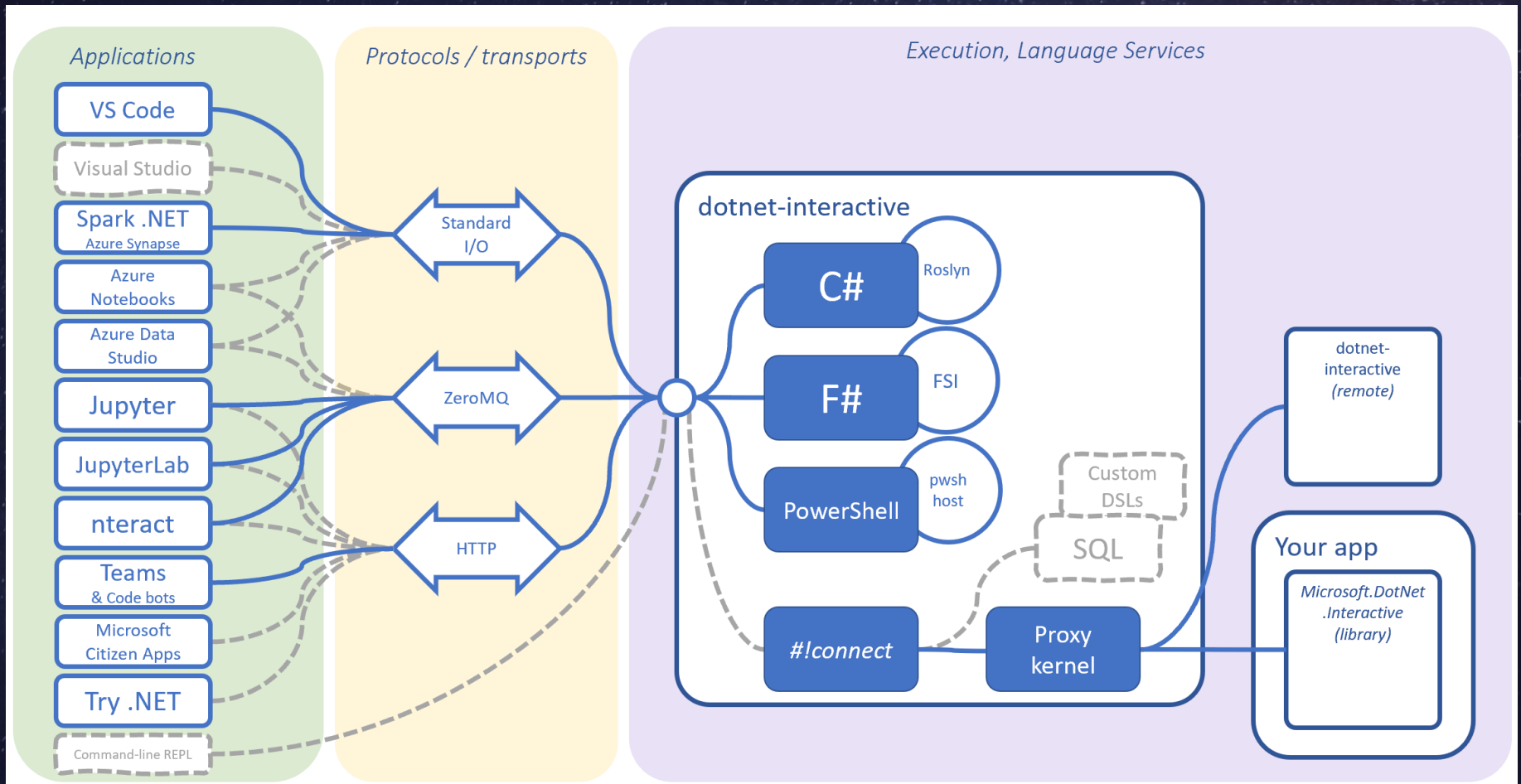
- **Jupyter Notebooks**
- **Use .NET Interactive Kernel**
 - **Powershell**
 - **C#**
 - **F#**

VISUAL STUDIO CODE

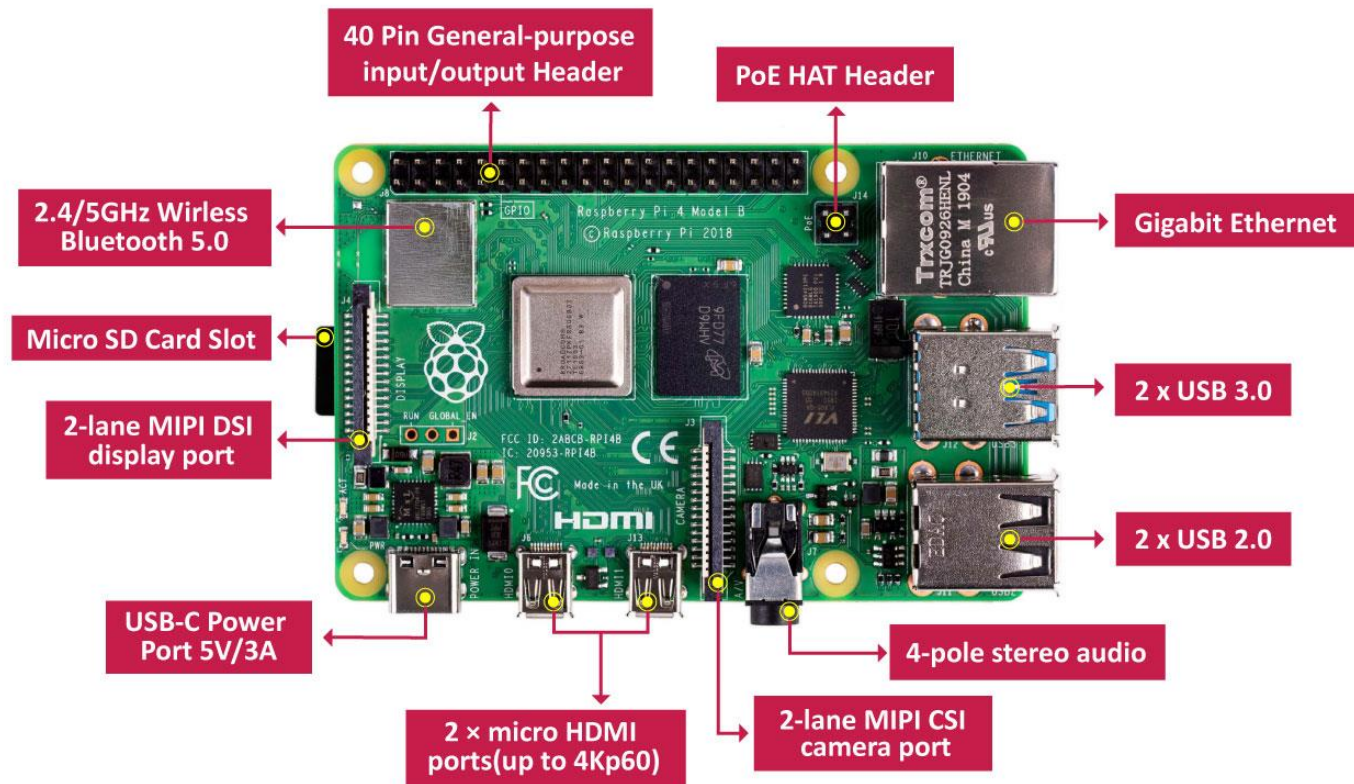


- Jupyter Notebooks
- .NET Interactive Notebooks extension
- Convert existing Jupyter notebook to a .NET Interactive Notebook
- File extension: *.dib

.NET INTERACTIVE



RASPBERRY PI



SENSE HAT



RASPBERRY PI

To install in raspberry pi

```
curl -L https://raw.githubusercontent.com/colombod/pi-top/master/setup-device.sh | bash -e  
source .jupyter_venv/bin/activate  
jupyter lab --no-browser
```

Raspberry Pi Sense Hat installation instructions <https://www.raspberrypi.org/documentation/hardware/sense-hat/>

PRESENTATION MATERIALS



<https://github.com/rondagdag/dotnetcode-jupyter-talk>

ABOUT ME

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Feedback appreciated, help improve my presentation skills