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

Ron Dagdag



STORY



Leodette

Ron

- .NET Developer since 2005
- .NET Framework 2.0
- Uses .NET for AR and IoT applications
- .NET Core
- Startup Brand new software
- Microsoft*
 Most Valuable
 Professional

- .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





AGENDA



What is Jupyter?



.NET Interactive



.NET Jupyter Notebooks



Raspberry PI



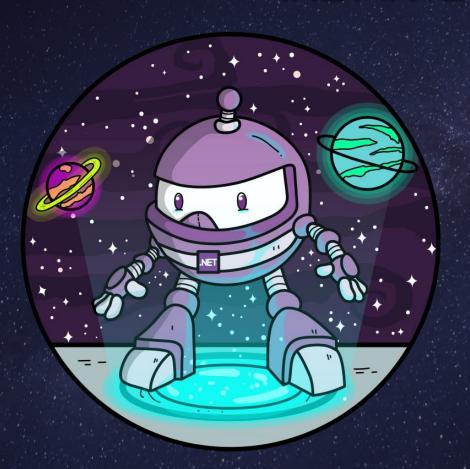
Demo

JUPYTER



- open-source web application since 2015
- create and share documents that contain
 - Live code
 - Equations
 - Visualizations
 - Narrative text.
- interactive data science& scientific computing
- Julia, Python and R
- (IPython Notebooks)

.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
 - #!lsmagic
- PocketView
 - Display HTML
- Xplot (data visualization library)
 - Prints text, html, svg, charts

AZURE DATA STUDIO



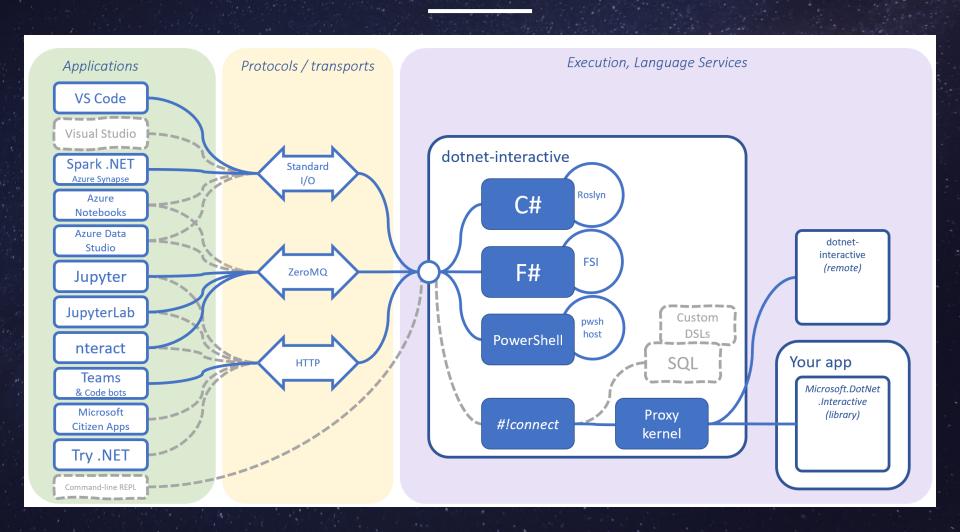
- Jupyter Notebooks
- Use .NET Interactive
 Kernel
 - Powershell
 - □ **C**#
 - □ F#

VISUAL STUDIO CODE

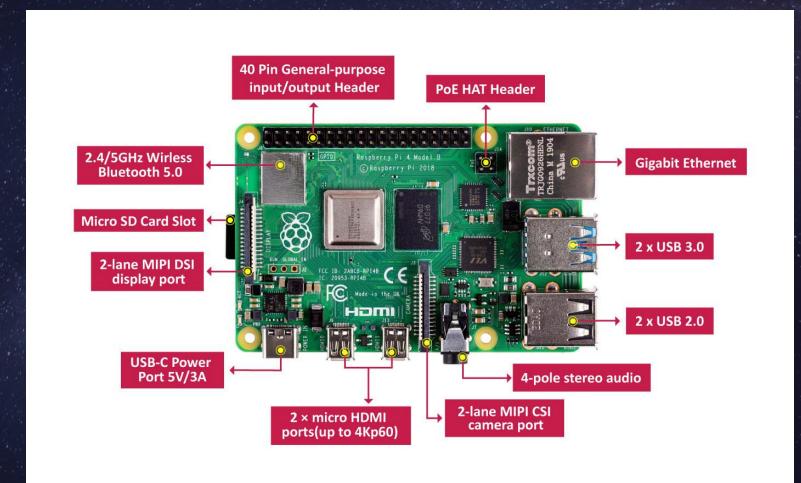


- Jupyter Notebooks
- .NET InteractiveNotebooks extension
- Convert existingJupyter notebook to a.NET InteractiveNotebook
- File extension: *.dib

.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
```

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

PRESENTATION MATERIALS



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

ABOUT ME RON DAGDAG





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Experience AR

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Feedback appreciated, help improve my presentation skills