Jupyter.org

@ProjectJupyter

Evolved from IPython...

“Why is it called IPython,

if it can do Julia, R, Haskell, Ruby, … ?”

IPython

- Interactive Python shell at the terminal
- Kernel for this protocol in Python
- Tools for Interactive Parallel computing

- Network protocol for interactive computing
- Clients for protocol
  - Console
  - Qt Console
  - Notebook
- Notebook file format & tools (nbconvert...)
- Nbviewer

IPython … Jupyter

- Interactive Python shell at the terminal
- Kernel for this protocol in Python
- Tools for Interactive Parallel computing

- Network protocol for interactive computing
- Clients for protocol
  - Console
  - Qt Console
  - Notebook
- Notebook file format & tools (nbconvert...)
- Nbviewer

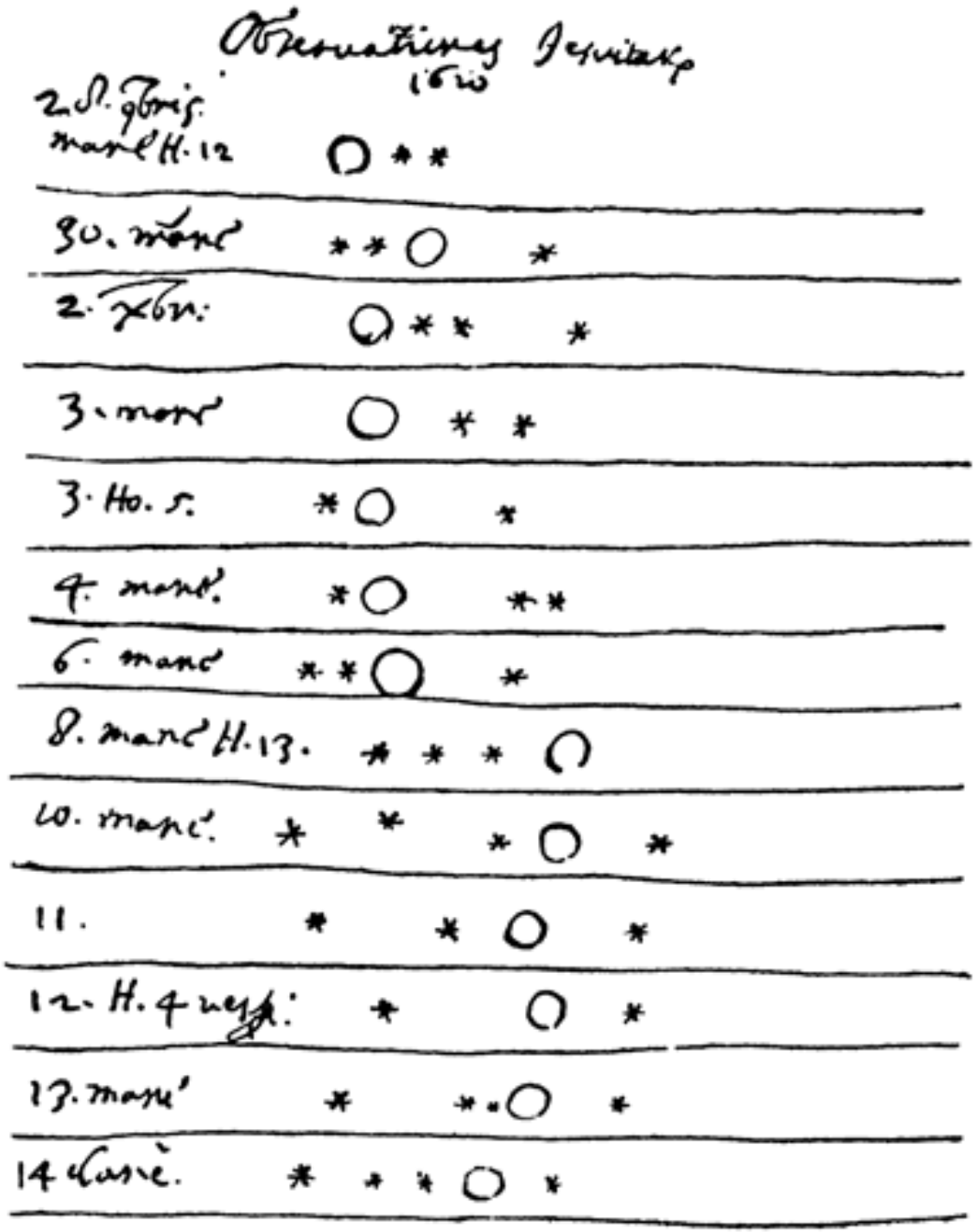
python™

Language Agnostic

What's in a name?

- *Inspired* by the open languages of science:
  - Julia, Python & R
  - *not* an acronym: *all languages* equal class citizens.
- Astronomy and Scientific Python:
  - A long and fruitful collaboration
- Galileo's notebooks:
  - the original, open science, data-and-narrative papers
  - Authorea: "Science was Always meant to be Open"

Galileo's Notebook



Galileo's *Sidereal Messenger*: 1610

OBSERVATIONS OF THE STARS

was greater than the star furthest to the west; but both were very conspicuous and bright; the distance of each one from Jupiter was two minutes. A third star, certainly not in view before, began to appear at the third hour; it nearly touched Jupiter on the east side, and was exceedingly small. They were all arranged in the same straight line, along the ecliptic.

Jan. 13. For the first time four stars were in view in the following position with regard to Jupiter. There were three to the west, and one to the east; they made a nearly straight line,

but the middle star of those to the west deviated a little from the straight line towards the north. The star furthest to the east was at a distance of 2' from Jupiter; there were intervals of 1' only between Jupiter and the nearest star, and between the stars themselves, west of Jupiter. All the stars appeared of the same size, and though small they were very brilliant, and far outshone the fixed stars of the same magnitude.

Jan. 14. The weather was cloudy.

Jan. 15. At the third hour of the night the four stars were in the state depicted in the next diagram with reference to Jupiter.