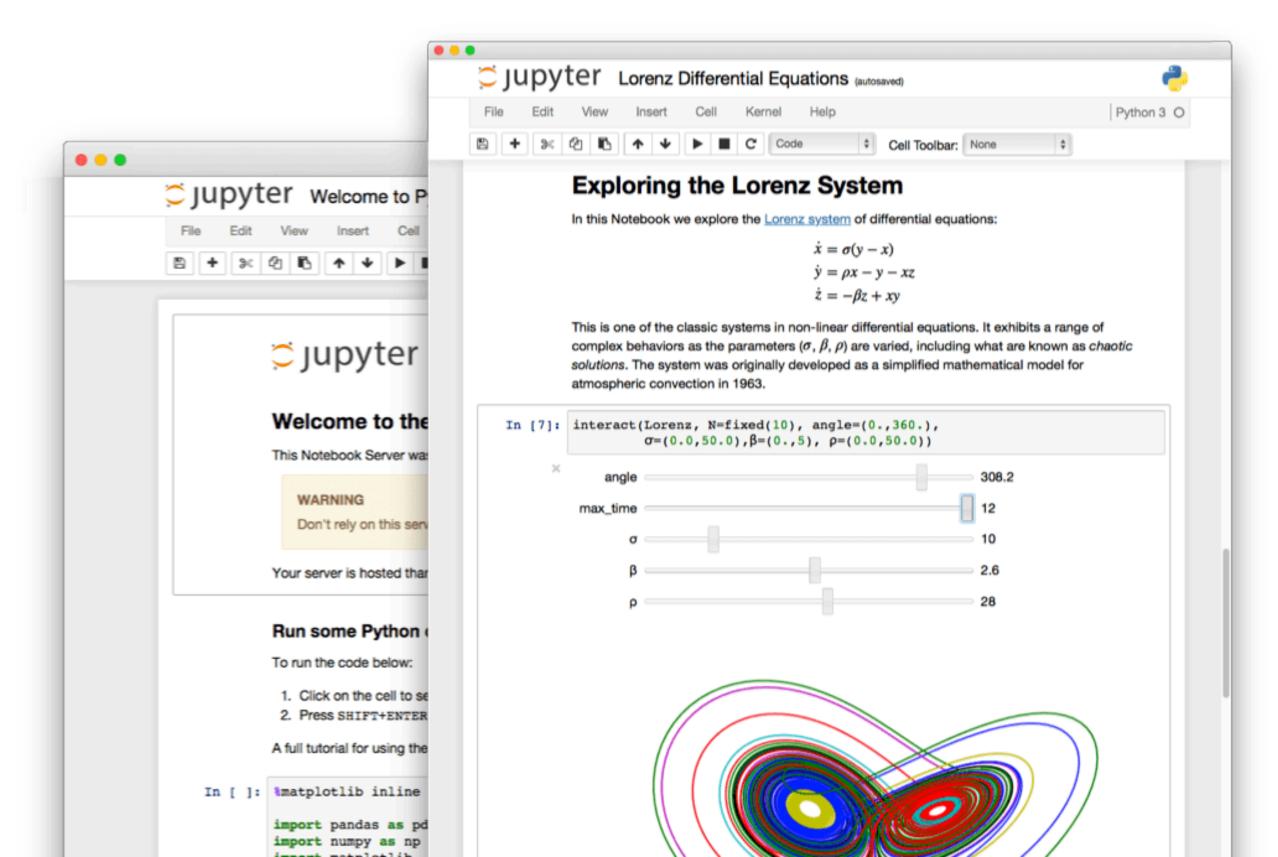


WHAT IS JUPYTER NOTEBOOK?

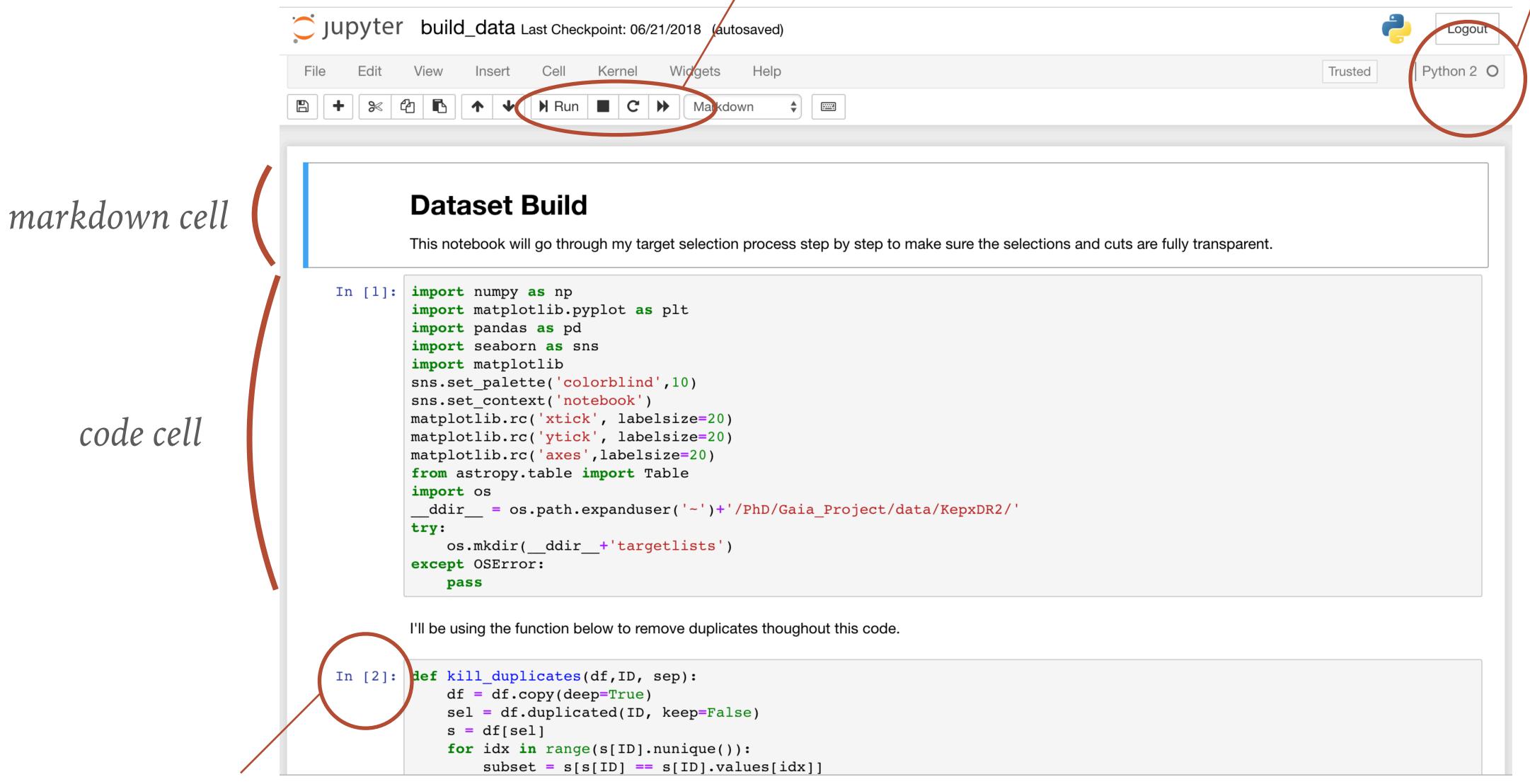
- ➤ An open-source web application
- > Functions as a more easily interactive iPython terminal
- ➤ Compatible with over 40 programming languages



A QUICK RUNDOWN

run cell, stop, restart kernel, run all

used python kernel



cell run history

WHEN IS JUPYTER NOTEBOOKS GREAT?

- > Sharing a code is not an efficient way of sharing knowledge
 - ➤ Sharing a Jupyter Notebook is!

- ➤ When illustrating how to reproduce a result (i.e. tutorials and blog posts)
- > When tweaking plots to get them just right
- ➤ When prototyping new code
- > When showing your supervisor what you got up to this week
- ➤ Working with object-based code, like 'lightkurve'!

WHEN IS JUPYTER NOTEBOOKS TERRIBLE?

- > When building a 'script' cannot be run from commandline
- > Performing delicate analysis no edit history, cells could be ordered wrong
- ➤ Memory intensive work all variables are stored in memory until closed
- ➤ When learning Python notebooks discourage good habits, don't teach the basics

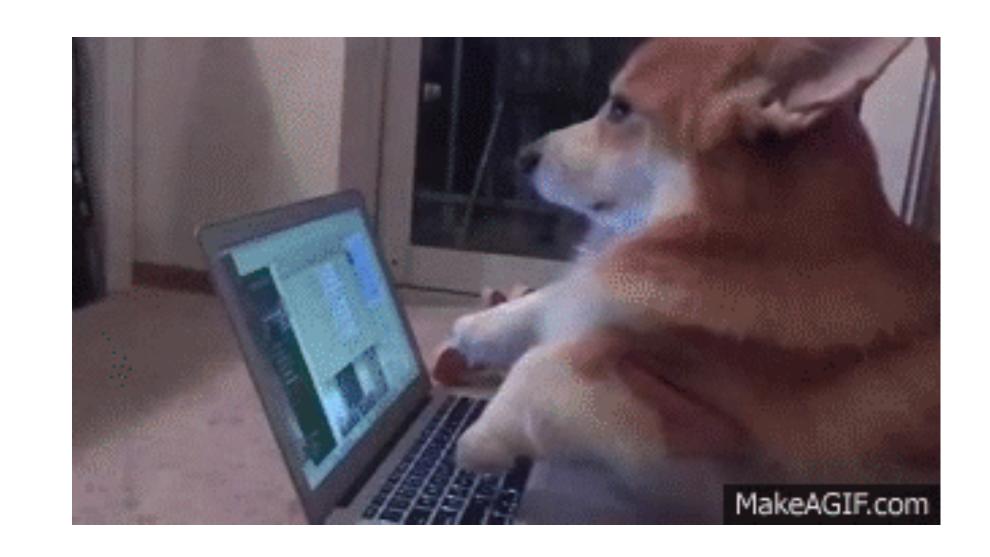


Credit: Why I Dont Like Jupyter Notebooks by Joel Grus

SOME USEFUL COMMANDS

- > Shift + Enter : Run current cell
- ➤ ESC: enter 'command mode'
- ➤ ESC -> b : create a new cell below
- ➤ ESC -> m : turn cell into `markdown`
- ➤ ESC -> y : turn cell into code
- ➤ ESC -> 1 : add line numbers to cell
- ➤ ESC -> d -> d : permanently deletes cell!

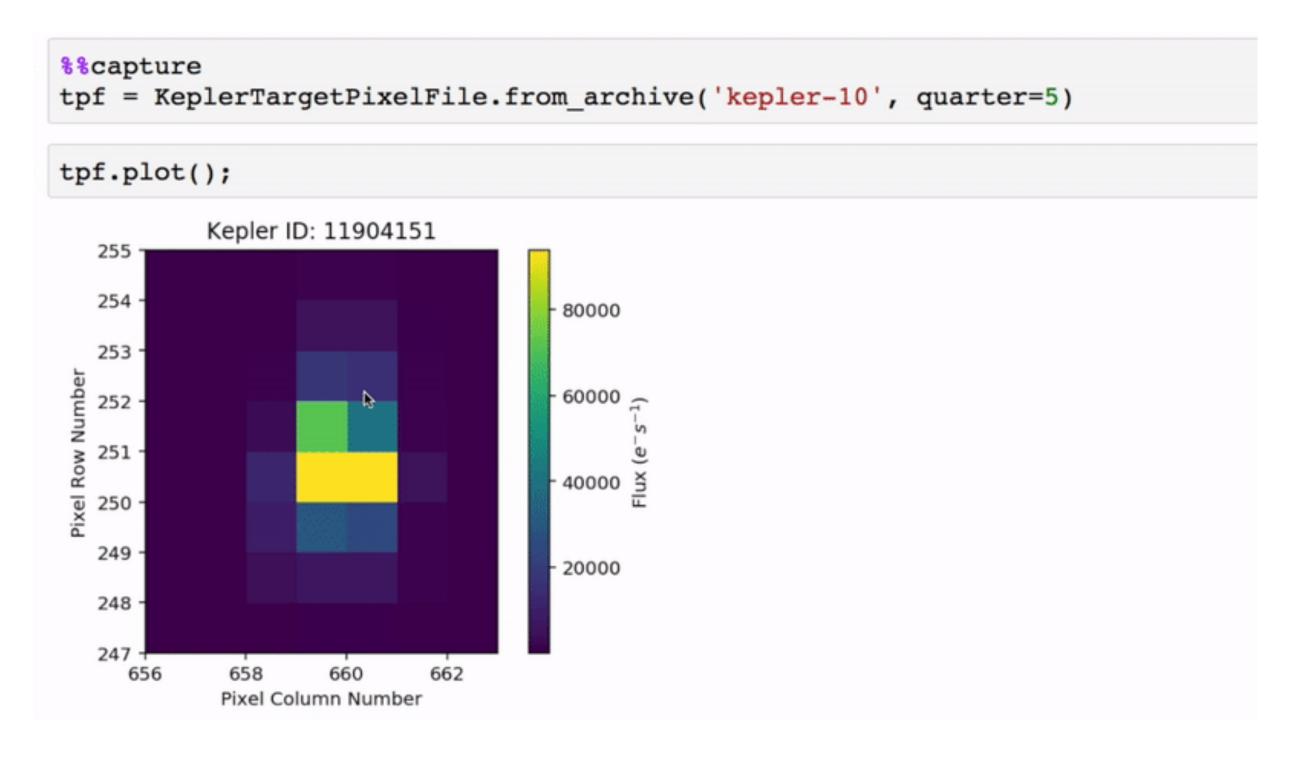
- ➤ Keyboard shortcuts compeltely customiseable!
- ➤ You can select, copy, cut, paste and move cells!

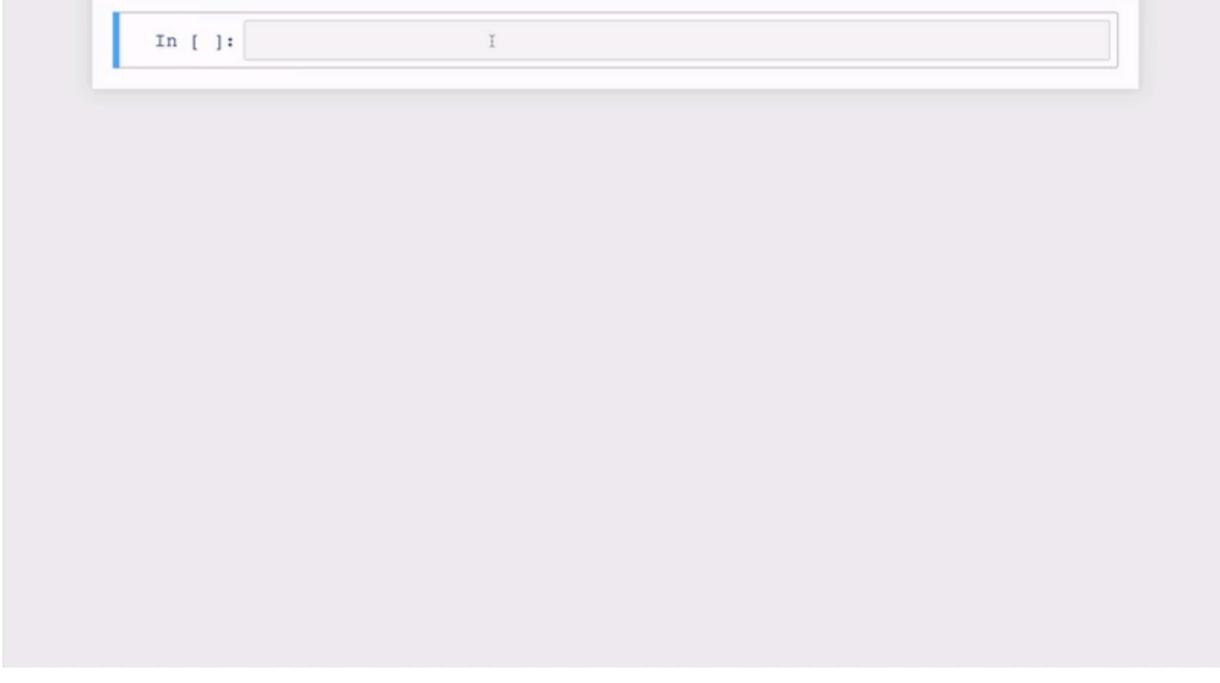


LIGHTKURVE

lowering the barrier for transit photometry

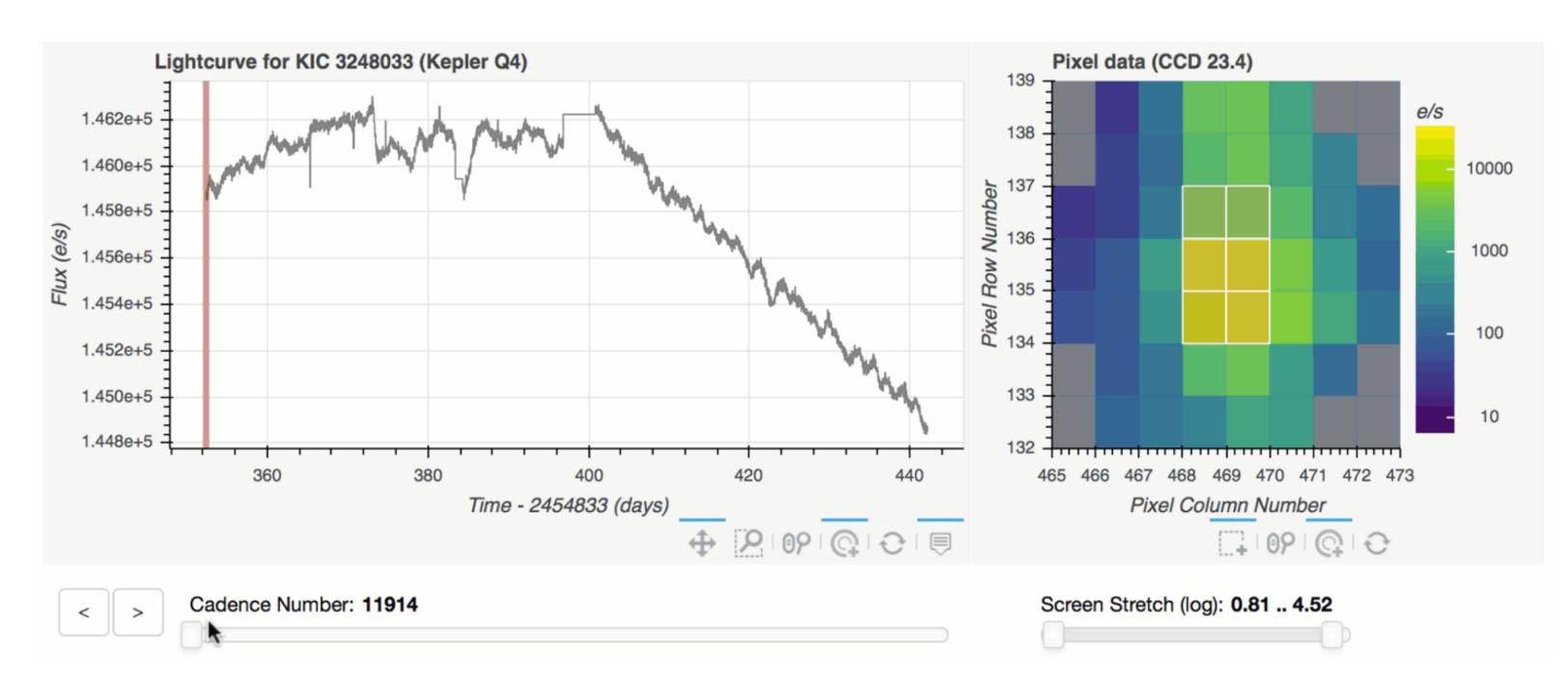
(& now also for asteroseismology)





WHAT IS LIGHTKURVE?

- ➤ An 'object-based' Python package
- ➤ User-friendly analysis of flux time series data, especially *Kepler*, K2, and now TESS!
- > Open source, so you can contribute!
- ➤ Constantly being upgraded



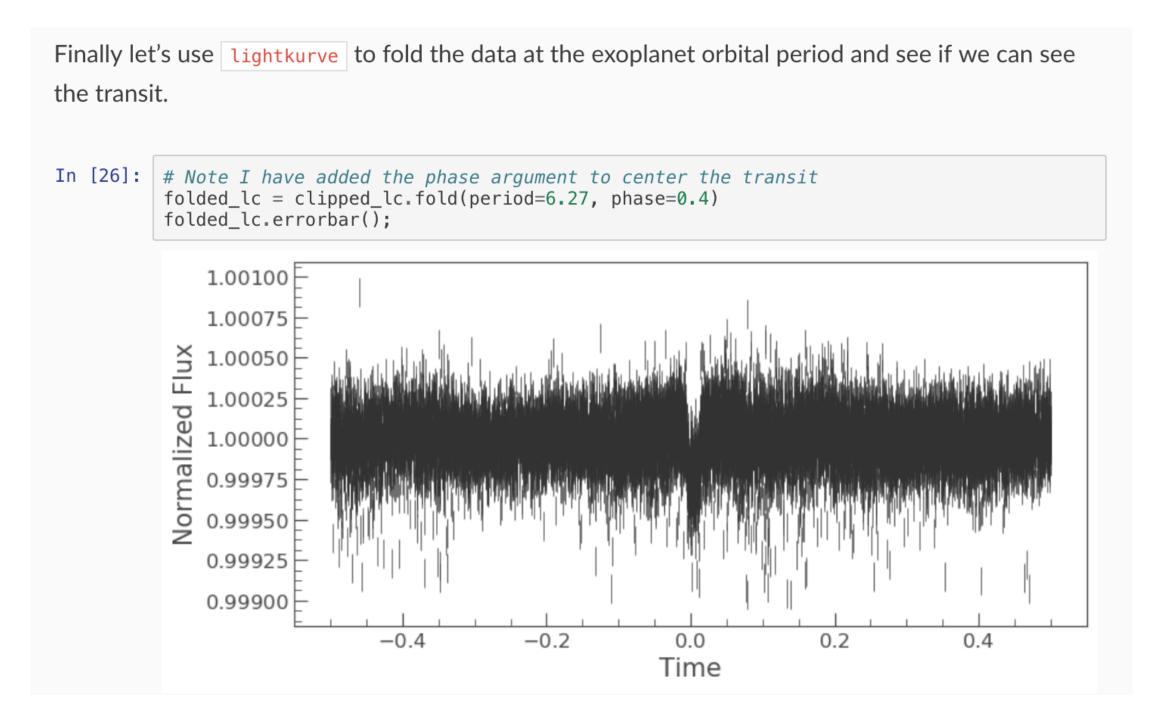
BETTER TO SHOW THAN TELL

we'll work through a tutorial and a live test

going from a target pixel file to a power spectrum

(i'll take suggestions from the audience)

finding the first TESS planet candidate



SOME USEFUL LINKS!



Install & learn about Jupyter

lightkurve

1.0b21

Install & learn about lightkurve



KeplerGO / lightkurve

Raise an issue on the repo, or fix an existing one!