

CORTEX: Continuous Integration for Scientific Articles

RODRIGO LUGER¹ AND DANIEL FOREMAN-MACKEY¹

¹*Center for Computational Astrophysics, Flatiron Institute, New York, NY*

THE LONG AND SHORT OF IT

CORTEX is a very simple [GitHub](#) repository aimed at making it easy to make your scientific articles open source and reproducible. CORTEX currently does two things. First, it defines the `\oscaption` command, which adds links to all figure captions pointing to the exact script that generated it; see Figure 1.

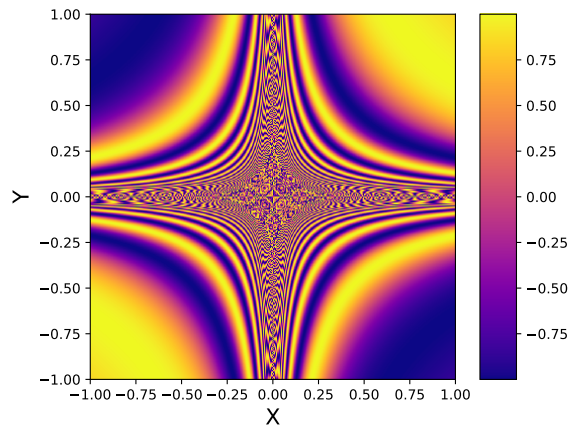



Figure 1. This is a plot of a pretty function. And at the end of this caption is a symbol with a link to the *exact* script that generated it, hosted on [GitHub](#). 

Second, it defines the `\proof` environment, which adds a link to any equation pointing to a proof, derivation, or verification of the equation in the form of a [Jupyter](#) notebook:

$$e^{i\pi} + 1 = 0. \quad \img alt="Jupyter notebook icon" data-bbox="805 825 822 842"/> (1)$$

Check out [Luger et al. \(2018\)](#) for an example of a paper that uses these features.

REFERENCES

Luger, R., et al. 2018, ArXiv e-prints,
arXiv:1810.06559