

The JupyterLab project allows developers to build extensions to further the functionality of the system, both client side and server side. This document provides a short tutorial on how to build an extension from scratch and may be useful: https://jupyterlab.readthedocs.io/en/stable/extension/extension_tutorial.html

The JupyterLab environment has a status bar (see https://jupyterlab.readthedocs.io/en/stable/extension/extension_points.html#status-bar) which can be used to display contextual information. Your task is to modify the status bar by adding a new widget that shows how much time a cell execution has taken after it has run. This requires (a) rendering a new widget in the status bar and (b) hooking into the cell execution signals to determine how long it took a cell to run. It also requires you to set up a JupyterLab development environment.

Please send me a link to a private github repository (or public, but my github userid is cab938) with the final product. Don't worry about the UX aspect, just the demonstration of the functionality. As questions as you need to!

