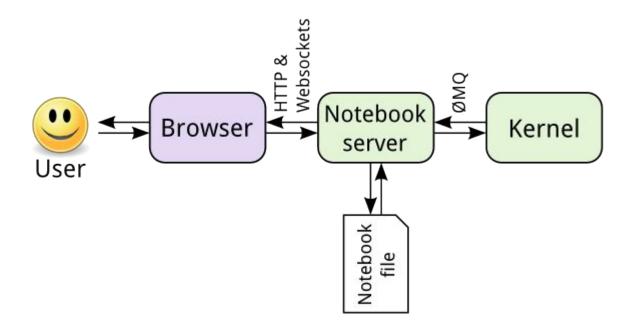
Jupyter Architecture

An overview

What is going on under the hood?

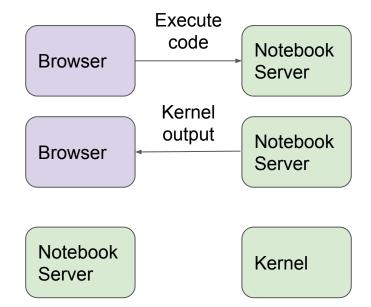


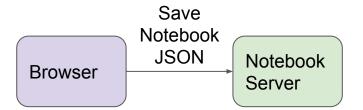
Browser

- You are viewing/editing a document
- Jupyter's Notebook frontend handles the following
 - User input
 - Rendering (Markdown, HTML, Javascript)
 - Sending changes to the Notebook Server
 - Sending code execute requests to the Notebook Server
- Communication happens using HTTP and Websockets
 - Websockets allow for a 2-way link between your browser and the server

Notebook Server

- Responsibilities
 - saves/loads notebook files
 - Spawns a kernel for you
 - Communicates with the kernel
 - uses the ZeroMQ (Message Queue) protocol





Kernels

Where user code execution happens

Separate process from the Notebook Server

Also handles other types of requests, like code completion

