

Problems

- Code is messy
 - “Science logic” is entangled in the GUI
 - Adding features and fixing bugs has become harder
- Requires a framebuffer, even to export
 - Currently bypassed with xvfb

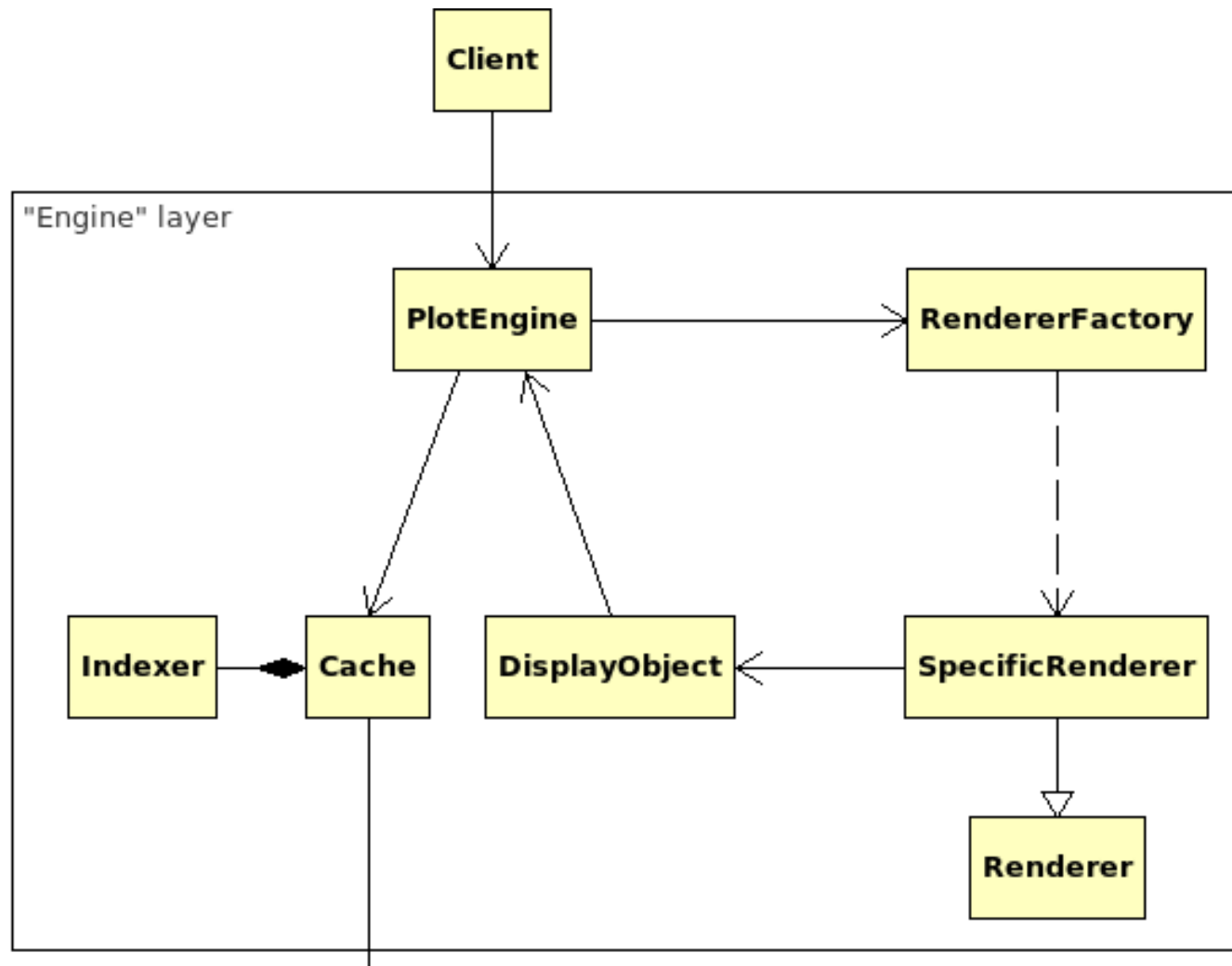
Motivation

- GUI-less plot generation
 - Pipeline
- Better separation of interfaces, because:
 - Data may not be on the local machine
 - Your iPhone is not a supercomputer
 - Neither is your laptop

The Idea

- Clients are thin
 - Display pictures
 - Pass interactions to a compute-oriented machine
- “Engine” does the heavy lifting
 - Draw, search data (locate)
- Cache handles requests for data
 - Is this column already loaded?
- DAL fetches from disk
 - Make the data source opaque

plotMS Engine



plotMS DAL

