**gfeClient[¶](https://collaborate.nws.noaa.gov/trac/ncladt/wiki/gfeClient" \l "gfeClient" \o "Link to this section)**

<taken from info provided by Raytheon in email>

The GFEClient is a Java Eclipse RCP application just like CAVE. It has its own installation script much like cave. Actually, it is CAVE but with less plugins, namely only those necessary for GFE and working from a command line. It can be used to run various python scripts including but not limited to TextProductTest, RunProcedure, and PngWriter(ifpImage).

For all our python interactions, we use JEP (Java Embedded Python). This open source project has been modified by us for better performance and to support numpy. It runs the python natively, but the python interpreter also has access to the Java classes in the JVM and wraps them in a custom python type called PyJobject. PyJobjects are references to Java objects, and methods can be called on them. When returning from Java in the python, Java strings and primitives are automatically converted into their python equivalents, while Java objects are wrapped again as PyJobjects.

The GFEClient works by launching the Java RCP app, where all the app does is immediately start up a python interpreter and pass the remaining arguments into the python interpreter, then calling the python module's main().

**Notes**[**¶**](https://collaborate.nws.noaa.gov/trac/ncladt/wiki/gfeClient#Notes)

* CAVE and the GFEClient both use caveData and therefore share preferences.
* Changing a python file in caveData will probably be useless as the next time the file is needed, if it differs from the version on EDEX, the version from EDEX will be pulled down to replace the local version.
* Still missing the command line functionality of Awips 1 IFPS

**ifpAG , ifpnetCDF , iscMosaic , publishGFE and moveGFEData**