HOW TO CONTRIBUTE TO HIPE

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Jython scripts

Java plugins

European Space Agency

- Contributed and maintained by the community

- External scripts, not part of the core software

- Linked by ITT in the *Related Sites & Links* page

- ITT does not actively support the library

- *Your ideas. Our software tools to make them happen*

• A site to upload, download, rate and comment

• Integrated installation and update mechanisms

• The Mozilla Foundation does not develop add-ons...

• ...nor are they shipped with Firefox

• Once installed, they integrate seamlessly into Firefox
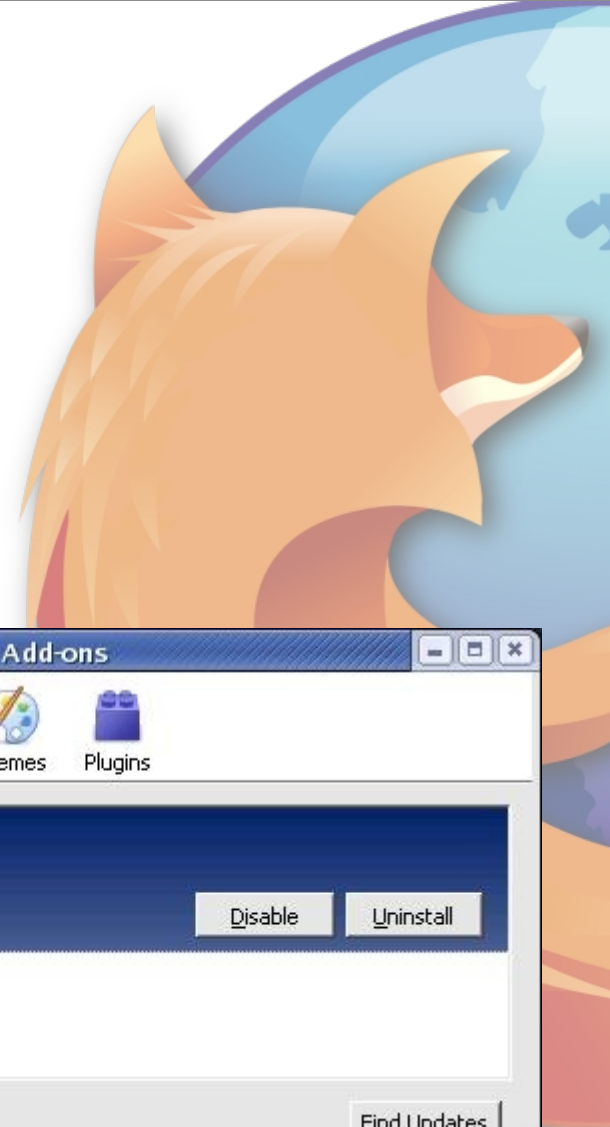
```
# Import all needed classes
from herschel.spire.all import *
from herschel.spire.util import *
from herschel.ia.all import *
from herschel.ia.task.mode import *
from java.lang import Long
from java.util import *

# Import the script tasks.py that contains the task definitions
from herschel.spire.ia.pipeline.scripts.POF8.POF8_tasks import *

# Input definition:
from herschel.spire.ia.pipeline.scripts.POF8.POF8_input import *

# Import the script obsLoader.py
from herschel.spire.ia.scripts.tools.obsLoader import *

# Open the input dialog to enter inputs
#inputs.openDialog()

# Open a dialog to load the ObservationContext if "obs" is not defined.
try:
        obsid=obs.obsid
except NameError:
        loader=ObsLoader()
        obs=loader.getObs().product


obsid=obs.obsid
print "processing OBSID=", obsid,"("+hex(obsid)+")"

# Make Engineering conversion of level 0 products
level0_5= engConversion(level0=obs.level0,cal=obs.calibration)

# Add the result to the observation in level 0.5
obs.level0_5=level0_5
```

- Can be written as Tasks

- Details in *Scripting and Data Mining*

- Write, load into HIPE and run

- Just like IDL and *astrolib* scripts

- We can provide a directory page

for user-contributed scripts

• May be Tasks, Views, Perspectives...

• ...and packaged as JAR files

• Add the JAR to your CLASSPATH

and you're done (well, almost)

• We can provide a directory page

• A fully-fledged add-on mechanism is

trickier!
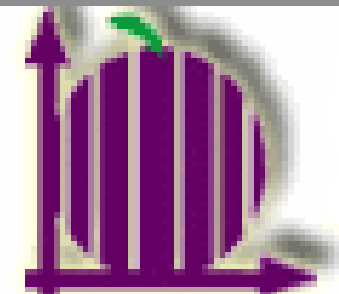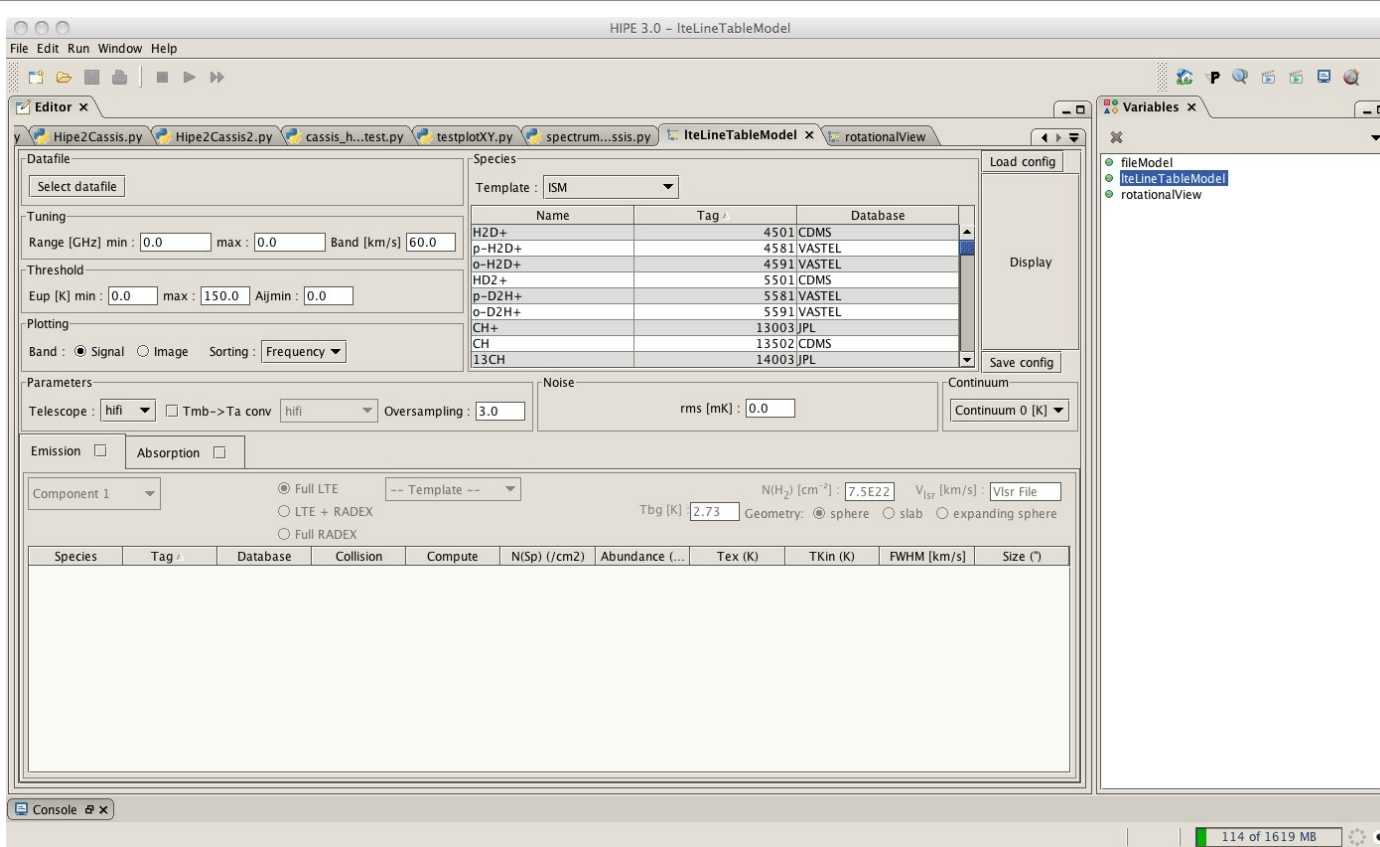
By Emmanuel Caux

- Comes as an additional JAR file

- You must have it on your CLASSPATH

- Unpack zip file with the sources

(look in *src* subdirectory)

- Edit the source files

- Compile them with *javac*

- Pack *class* files into a new JAR file

- Put JAR file into CLASSPATH

- Start HIPE and enjoy!

- Include external libraries in CLASSPATH

- Register Task in *__init__.py* (or other Jython file) with *TaskToolRegistry*

- Ensure files in JAR file have correct path

- Include JAR file at the top of *installed.userlibraries*

- *HIPE Contributor's Guide*

(in preparation)

- If you have TWiki access:

look at the *Quick Guides*

in the HCSS Web

P.S.: how to write Tasks is already covered in the *Scripting and Data Mining* guide available from HIPE 2.0 Help
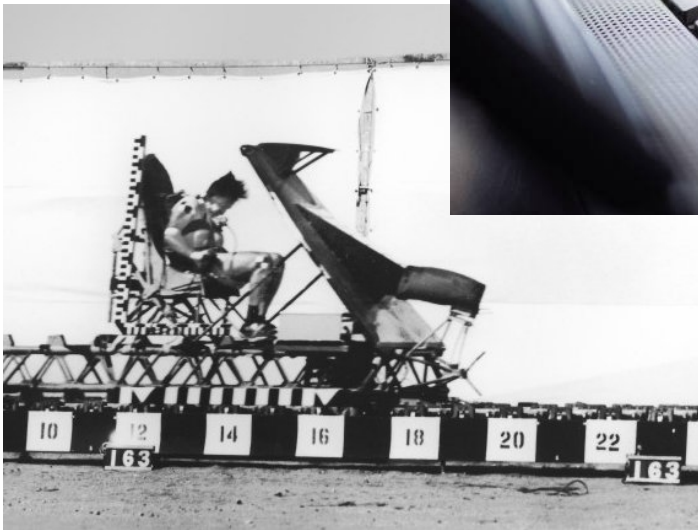
YES, BUT WHEN?

• Contributors Guide: by end of February 2010

• Everything else: it depends on the outcome

of the discussion!

• Simpler infrastructure can be provided more

quickly

• If you do not know how to do this, please send

a ticket to the Helpdesk and we can teach you

how to do it step by step.

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Who would like to contribute with...

Coding (Jython/Java)?

Documentation?

Beta testing?

Thank you
Any questions?

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