

Telecon July 26th

Logistics:

- Christoph on vacation for next two weeks (July 29 -- August 11).
- Adeel will coordinate / work with Thomas
- Next joint telecons August 16 and 23 at 2 pm.
(you can ask Thomas to confirm in next weeks call)

Next steps

- Do this one first (after Christoph merges the code edits done during the call)
<https://github.com/hipspy/hips/issues/81>
 - See email from Christoph to Pierre / Thomas from today, July 26.
 - If you want to get started now, you should continue here:
https://github.com/hipspy/hips/blob/master/hips/tiles/tests/test_surveys.py#L88
 - We have a table of HiPS
 - Add a method `HipsSurveyPropertiesList.lookup(name)` that returns a given survey by searching the data["ID"] column for a given value.
Example:
https://github.com/cds-astro/ipyaladin/blob/master/examples/2_Base_Commands.ipynb where a user can select
`survey='P/allWISE/color'`
 - Then, this should also be exposed via the `make_sky_image` high-level function (TODO comment left in code).
 - When Pierre or Thomas reply -> switch to a better list of HiPS (or add it in addition)
- Add option "precise" to `TilePainter` (1-2 days?)
 - We discussed this in the call and refactored the `TilePainter` a bit, leaving two TODO comments for Adeel where to add something. Mainly: implement splitting in children in `make_tile_list`
 - Make Jupyter notebook that draws twice, with "precise=True" and "precise=False", using the example that Thomas used for Aladin Lite. In both cases, plot the lines with the "W" connecting the stars.
Results should be (almost) identical to what Aladin Lite shows with and without deformation correction.
Note that the central star is at `SkyCoord(14.1772154, 60.7167403, unit='deg')` (taken from

view-source:<http://cds.unistra.fr/~boch/AL/test-reduce-deformations2.html>
) and you can use wcsaxes to draw a marker at that sky position.

- Add test case that asserts on some pixels where results change.
Suggestion: to keep the tests fast, just do one example with precise=True and precise=False. Either use one of the existing examples, or use the one from Thomas / the notebook.
- Update as soon as it's clear what the diagonal splitting value is:
<https://github.com/hips/hips/issues/92>
- We talked about possibilities to add progress reporting and to give a time / memory stats report at the end and left some TODO comments in the TilePainter code where it could be added.

Links

- <http://cds.unistra.fr/~boch/AL/test-reduce-deformations2.html>
- <https://github.com/adl1995/HIPS-to-Py/blob/master/examples/Tile%20distortion%20issue%20-%20Fix.ipynb>