

Time Series in the VO

How not to be seen[1]

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Outline

The task

Conclusions

Finding TESS light curves in the VO

Demo time in Jupyter Notebook and Topcat.

SEO

Please don't do it. Seriously. If not for your own sake, consider that I am already guilty of the sin of gluttony, any more bad Karma in my account because I encouraged you to go in this direction, and my soul will be in serious trouble! So please don't let SEO be your take away of this presentation.

Evolution of time series in VOTables

Smarter brains than mine already spent quite some time to think about all of this, but efforts in this regard seemed to be a bit sleepy right now. There is a draft for a not on time series annotation [2], so please pick it up. It would be so useful!

... which of course is linked to the vacant position of a chair of TDIG: if you find it in your heart, support MCD here and join the TCG ("the exhilarating roller coaster of fun" [3]).

Alternatively: if you find it in your funding, you can hire me and I promise to push it forward.

Registering Services vs Data Collections

Historically the VO protocols services were a 1:1 mapping of data collections and services (SCS, SIA, SSA). With TAP, Obscore and linked services this kind of mapping does not make sense any more, so please:

Register your Data collections with metadata rich records and descriptions! Don't take my word for it: take Markus' and Mark's endorsed words[4].

Proposal: dataproduct_type in registry records

In obscore we can use `dataproduct_type='timeseries'`. Would it be possible to add something like this to the registry records as a description of coverage of the data collection?

References

1. https://en.wikipedia.org/wiki/How_Not_to_Be_Seen_sketch
2. <https://www.ivoa.net/documents/Notes/LightCurveTimeSeries/>
3. Mark Taylor, Opening remarks of OpSIG
4. <https://www.ivoa.net/documents/discovercollections/>