1. DALI examples endpoints

(cf. Fig. 1)

Markus Demleitner
msdemlei@ari.uni-heidelberg.de

(cf. Fig. 2)

• Why examples?
• RDFa
• TAP examples
• Validator examples
• Datalink examples

(cf. Fig. 3)

2. Why Examples?

Users ask for examples all the time, so perhaps I should be asking:

Why examples the DALI way? Demo time

Steps to reproduce:
1. Start TOPCAT
2. Open the TAP dialog
3. Select GAVO DC TAP
4. In the “Examples” button, select “Service-Provided”, “Crossmatch for a guide star”.
5. TOPCAT has filled out the query, and you can run it (it will take a bit).
6. Meanwhile, hit the “Info” button and read the explanation for the query. Scroll to see more examples.

Principle: Make it readable for both human and machine.

3. RDFa

HTML for the human and RDF annotation for the machine – from the example document we just saw:

```html
<div typeof="example" id="ARIGFHmultiflags" resource="#ARIGFHmultiflags">
<h2 property="name">ARIGFH multiflags</h2>
<p>This example shows how to decode combined flags [...] it is rampart within</p>
<pre property="query">
SELECT decCat, raj2000, dej2000, epDec, eqDec
FROM arigfh.id
WHERE 4=MOD(decflags/10000, 10)
</pre>
</div>
```

The HTML is made machine readable through the judicious use of @property, @typeof, @resource.

4. Good News

You don’t have to figure out all the Semantics lingo yourself. Just use the recipes in DALI sect. 2.3.

It’ll be fine for generic (non-VO) RDF processing, too.

Except: the property names (“thing labels”). These are per-standard.

5. TAP examples

Here, you need the query. (TOPCAT understands the property already).

DaCHS also produces table (these could be prominently placed next to table metadata displays, say).

In TAP logic, we should really have lang (but we decided to postpone proper multi-LANG handling until someone really cares).

TAP-1.1 WD doesn’t have anything on that yet.
6. Validator Examples

DALI-1.0 is already enough for generic (non-standard) services. See the examples for the ivoid validator at http://dc.g-vo.org/validate-identifiers

Most of the stuff you've seen before – there's just the extra DALI-1.0 generic-parameter. Admittedly, there's not client support for this kind of thing yet.

7. Datalink examples

I've put some examples on datalink services, too, e.g.,

http://dc.zah.uni-heidelberg.de/feros/q/sdl/examples

– datalink would have to define the dl-id concept then.
That was more an experiment to give validators a hand (and for that, VOResource 1.1 will probably have something simpler).

8. Conclusion

- DALI examples lets you share examples between human and machines
- Relatively simple markup that happens to match non-VO standards
- Good examples make happy users

In our TAP courses, TOPCAT’s Example button was the single most popular feature.