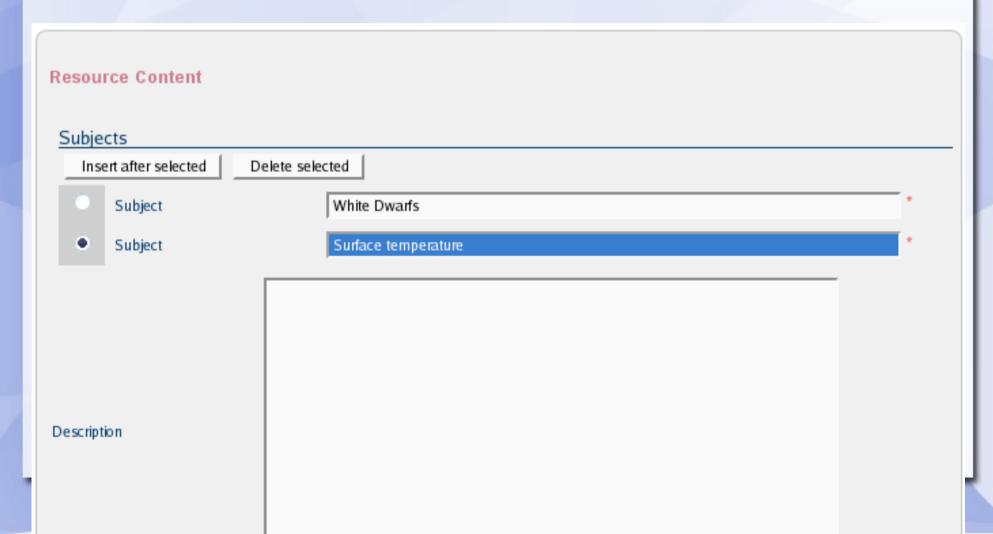
### Semantic applications

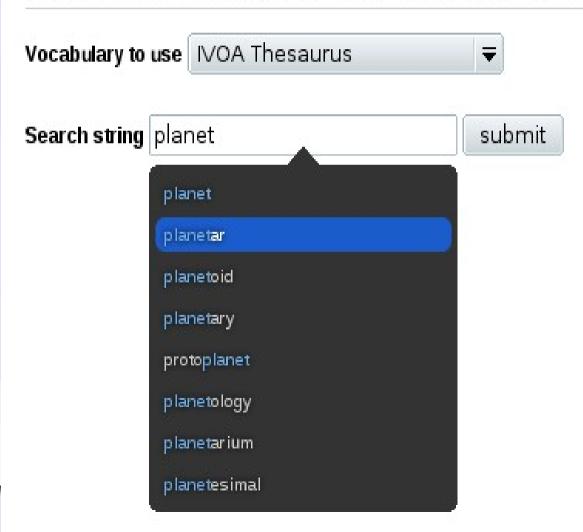
IVOA interoperability meeting Champaign-Urbana 2012 May 21

- Use semantics to standardize the metadata used in the Resource descriptions
  - <content>
- Makes easier :
  - Resource creation : « What am I supposed to enter in this field ? »
  - Registry searches : taking profit from standardized contents

Vocabulary suggestion (see Nara 2010)



- Autosuggest / Autocomplete from SKOS vocabularies
- SKOS
- AJAX



- Use thesaurus to broaden/refine queries
- Use broader/narrower relations
- Can be useful when doing faceted search (see ADSlabs new portal)

# Annotations, tagging, microformats

• RDFa

```
   In his latest book
   <cite property="dc:title">Wikinomics</cite>,
        <span property="dc:creator">Don Tapscott</span>
   explains deep changes in technology,
   demographics and business.
   The book is due to be published in
   <span property="dc:date" content="2006-10-01">October 2006</span>.
```

- Microformats
  - vcard, geo

```
The birds roosted at

<span class="geo">

<span class="latitude">52.48</span>,

<span class="longitude">-1.89</span>
</span>
```

#### Annotations, tagging, microformats

 Dynamically add remote content to document (see Naples & Pune interops)

Scholz A.; Giannini T.; Eisloeffel J.; Nisini B.; Massi F.; Antoniucci S.; orming regions: A potential chemical clock? saroni R.; Codella C.; Schuller F.; Bronfman L.; Carev S.J.; Menten K. liscovered pulsar IGR J17480-2446. .; Burderi L.; Di Salvo T.; Belloni T.; Iaria R. esolar twin 18 Scorpii derived from asteroseismology and in ding T.R.; Broomhall A.-M .; Asplund M.; Castro M. \* 18 Sco nteiro M.J.P.F.G.; Santos 🥽 J2000: 16 15 37.269 -08 22 09.99 ards the massive young : Search \* 18 Sco in SIMBAD .D.; Nuernberger D.E.A.; Wi Search \* 18 Sco in CDS portal Annotations for \* 18 Sco creting brown dwarf J05 i L.; Covino E.; Herczeg G.; 26/L10) net host star. ves R. ormation process by sho

# Annotations, tagging, microformats

- SKUA
  - Saving and sharing annotations
- User-contributed contents
- « Controlled » folksonomy

### Outreach, multilingual

- Several languages in TRex
- Multilingual dictionary in Paris