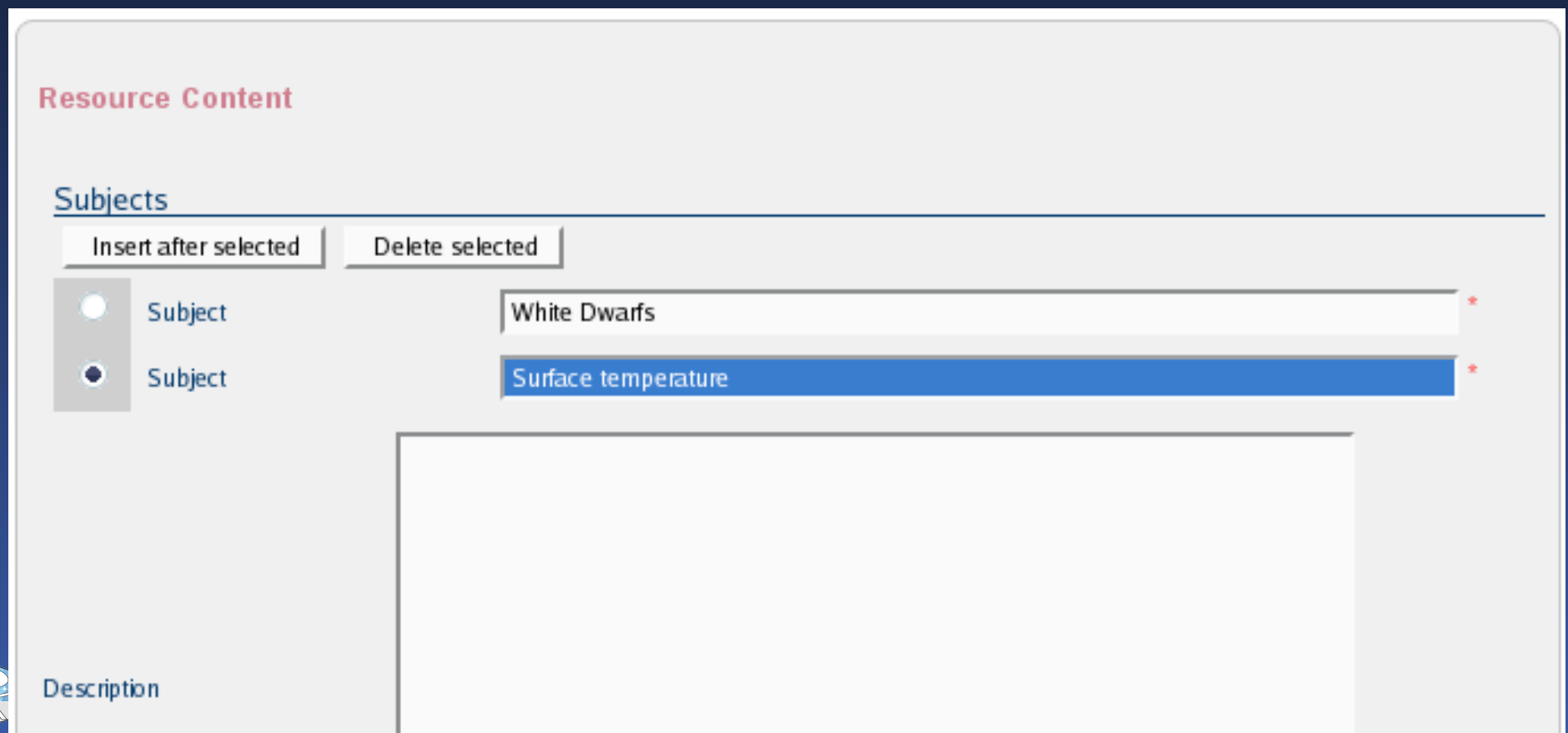


Vocabularies for other WGs

- Theory
 - developed their own vocabularies (7 !)
- Registry
 - suggest mechanisms

Resource metadata

- Help user fill-in the contents when creating Resources: *What am I supposed to type??*



Resource Content

Subjects

Insert after selected | Delete selected


Subject

Subject

White Dwarfs *

Surface temperature *

Description



Resource metadata

- What do users do in practice?
- Look at existing <subject> contents in registry
- Well... maybe some help is needed



75 Star	72 Observation
52 Galaxy	52 surveys
37 Stars	25 OpenSkyNode
36 Galaxies	24 virtual observatory
16 AGN	22 Images
12 Cluster of Galaxies	19 Photometry
12 Nebulae	19 Surveys
11 Planets	17 Catalogs
10 GRB	17 Optical Astronomy
10 Globular Clusters	15 spectroscopy
8 Star Cluster	13 Cosmology
7 Nebula	13 optical astronomy
6 Variable stars	[...]
5 Hot stars	7 Artificial Neural Networks -
5 Pulsar	Classification and pattern recognition
4 supernova	7 Redshift
3 Clusters of Galaxies	7 UV Astronomy
3 Infrared:stars	7 XRB
3 Quasars: general	7 digital libraries
3 Supernova	7 images
3 White dwarfs	7 stp
3 galaxies	6 NOT PROVIDED

2 6dF survey galaxy galaxies redshift redshifts 2MASS

2 Arecibo

2 Astronomical literature

2 Astrophotography

2 CV

2 Catalog of echelle spectra

2 Chianti Atomic Data

2 Computer Simulation

2 Cosmic Microwave Background

2 DES VTPRS Cluster Finding Service: a tool for calculating candidate clusters from galaxy catalogs

2 Digitised photographic Schmidt field test photometry astrometry

2 Digitised photographic optical all-sky photometric astrometric survey

2 Faint Images of the Radio Sky at Twenty-cm FIRST

2 GALEX

2 Galactic Legacy Infrared Mid-Plane Survey GLIMPSE

2 Hubble

2 IPHAS

2 Infrared Astronomy

2 Infrared all-sky survey

2 Infrared point-source survey

2 National Virtual Observatory

2 Photographic plate

2 ROSAT xray x-ray sources faint bright

Resource metadata

- Add suggestion mechanism using :
 - Vocabularies
 - AJAX
- Vocab service
 - publication
 - curation

Autosuggest / Autocomplete from SKOS vocabularies

Vocabulary to use

Search string

- planet
- planetar**
- planetoid
- planetary
- protoplanet
- planetology
- planetarium
- planetesimal

Vocabulary tools

- Services to be reused in the VO
 - how ? WebServices, SOAP, REST, JSON, etc
 - what ?
 - vocabulary suggest (fuzzy match)
 - namespaces ? ex: simbad:QSO
 - definition retrieval
 - vocabulary matching : (ns1,word)->(ns2,?)
 - broader/narrower
 - where ?
 - hosting (with scripting capabilities)
 - maintenance
 - who ?





Units

- Different views
 - how units should be written in papers
 - and how they are in practice :-)
 - how units are stored in metadata repositories
 - how units are used in VO protocols / tools
- IAU recommendation
 - must, may, should...
- Normalized views
 - VizieR, Heasarc



Units

- Important to distinguish :
 - formatting for publications
 - $2.99792 \times 10^8 \text{ m s}^{-1}$
 - easily parseable strings
 - 2.99792e8m.s-1
 - 2.99792 10**8 m s**(-1)
- BNF form for easy parsing
 - basic unit symbols ('', kg...)
 - composed units : ., *, e, ^, **

