

Objects Classification

Search by Object Class

- Identified by CSP
 - find quasars with redshift > 4

Access to Classification

- Provided by NED, SIMBAD - fantastic!
- Other classifications in catalogues and thematic services (also DIY)
- **Issues:**
 - Different classifications schemes (years of effort in defining these)
 - Volumes/sizes - 'All Galaxies in SIMBAD' = 1.5 million (SIMBAD/NED support extracting lists of sources based on class up to ~20000 objects)

SIMBAD web interface



NED Batch

```
#-----  
#                               Constrain by Object Type  
# Choices:  
#   INCLUDE: INCLUDE objects with ANY object types marked by 'X'  
#             or  
#   INCLUDE ALL: INCLUDE objects with ALL object types marked by 'X'  
#             and  
#   EXCLUDE: EXCLUDE objects with ANY object types marked by 'X'  
#  
# Replace '_' by 'X' or 'x' to mark the object types to be included  
# or excluded. If none is marked, there is no constraint on object  
# type.  
#  
INCLUDE  
# INCLUDE ALL  
Galaxies x GClusters _ Supernovae _ QSO _ AbsLineSys _ GravLens _  
Radio _ Infrared _ EmissnLine _ UVExcess _ Xray _ GammaRay _  
GPairs _ GTriples _ GGroups _  
END_INCLUDE  
  
EXCLUDE  
Galaxies _ GClusters _ Supernovae _ QSO _ AbsLineSys _ GravLens _  
Radio _ Infrared _ EmissnLine _ UVExcess _ Xray _ GammaRay _  
GPairs _ GTriples _ GGroups _  
END_EXCLUDE
```

SIMBAD: Query

other query modes : [Identifier query](#) [Coordinate query](#) [Criteria query](#) [Reference query](#) [Batch query](#)

Enter a search expression:

otypes=G

Enter the name of an ASCII file containing a search:

no file selected

Description of the querable fields (241) :

Criteria on basic data

creationdate	creation date of the object (format 'MM/DD/YYYY')
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Standards

- Data Access Standards for 'Access to classification' - as per query by list (TAP) plus identifying classification 'fields/columns/information', e.g. UCD 'src.class'
- Science priority on 'access' to classifications, using classification systems of established expert services (*not standardising classification*)
- Semantics Standards - role in making different classification systems interoperable (Vocabularies)

discussion in session

Object classes

- Don't try to create a SINGLE vocabulary
- Mappings, translations, ...
 - use existing classifications
 - how to do querying ?