

Semantics session

IVOA interoperability meeting
Pune 2011 October 19



Units

- Changes in reference document
 - Units in IVOA architecture
 - survey of current use
 - Scope of the document : simplification
 - Large comparison of IAU, FITS, OGIP, CDS
 - symbols+prefixes, operations
 - IVOA proposed good practice : explicit
MUST, SHOULD, MAY



Unity library

- Library developed by Norman Gray
 - <http://www.astro.gla.ac.uk/users/norman/ivoa/unity/>
 - Supports various grammars
 - FITS
 - OGIP
 - CDS
 - C and Java
- ```
% ./unity -icds -ofits -v mm/s
mm s-1
check: all units recognised? yes
check: all units recommended? yes
check: all units satisfy constraints? yes
```



# Units Roadmap

- Do it right
  - K is Kelvin
  - hr not valid
  - km/h



# Roadmap

- Finalise and circulate reference document: draft in WG (before ADASS), then PR, Rec
- Check consistency between document and Unity library
- Send call to all unit consumers (data centers, tools)
  - get list of used units
  - validate
- Centralize discussion on a dedicated IVOA wiki page

