

Units

***IVOA TCG meeting
Champaign, Urbana, 2012 May 20***



Outline

- Units 1.0 document
- Feedback
- Unity library
- Changes and PR



Units 1.0 document

- Working Draft 2011 December 16
- Major rework of previous versions
- Structure of the document :
 - Introduction & Scope
 - Current use of units in astronomy
 - Proposal for VOUnits
 - Use cases and applications



VOUnits goals and definitions

- VOUUnits deal with unit labels (not plain text or typography)
- Base symbols (m), prefixes (k), symbols (km), mathematical operators
- Do not reinvent the wheel, ensure maximum compatibility & least surprise
- Do not prescribe mandatory units for quantities



Current use

- IAU 1989 : SI-flavoured typography for publications
- NASA OGIP FITS files
- Standards for astronomical catalogues (used at CDS)
- FITS 2010 specification
- + few others



Proposal & applications

- 8 pages of systematic comparisons of the major systems
- tl;dr : use FITS 2010 specification
- Norman's Unity library
 - <https://bitbucket.org/nxg/unity>



Comments received

- Wiki page opened for dicussing a few points

<http://www.ivoa.net/cgi-bin/twiki/bin/view/IVOA/DiscussionOnVOUnits>

- Only Markus Demleitner & Norman Gray...
- Use FITS 2010 specification with clarifications (grammar) & minor adjustments



Moving to PR

- New document, with a few modifications and clarifications
- Distribute, 2 weeks discussion and then PR

