

# DAI-next: identifying things to add...

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# DALI-next

- VOTable type system: `<datatype,arraysize,xtype>`
- DALI-1.1 defines xtypes so that serialise values in an interoperable way:
  - timestamp (char, \*)
  - interval (<numeric>, 2)
  - point (<real>, 2)
  - circle (<real>, 3)
  - polygon (<real>, 2\*n)
- usable to specify type of values used as input (service parameter value) and output (e.g. in a single table cell)

# DALI-next : more general 2-D regions

- use cases:
  - observation bounds made up of disjoint pieces (CADC, ESO, ALMA, MAST, ...)
  - observation bounds have holes (CADC, ...)
  - observation bounds made by combining polygons and circles?
  - polymorphism?
- datatype="double" arraysize="\*" xtype="polygon"
  - values: VOTable 1-D array of coordinate values (simple poly)
- datatype="char" arraysize="\*" xtype="adql:REGION"
  - values: TAP-1.0 non-normative STC-S (w/ UNION)
- datatype="double" arraysize="\*" xtype="caom2:MultiPolygon"
  - shows problem is tractable, ~solved in CAOM
- proposal: DM II this afternoon...

# DALI-next : MOC

- coverage in the registry -> MOC in RegTAP
- define xtype and serialisation in DALI?
  - must do this to return a MOC as a value (in a single table cell)
- proposal: DM II this afternoon...

## DALI-next : other use cases?

[http://wiki.ivoa.net/twiki/bin/view/IVOA/DALI-1\\_1-Next](http://wiki.ivoa.net/twiki/bin/view/IVOA/DALI-1_1-Next)