

Time series - next steps

April 2018







Comparison using the same data produced good results.

90% similar 10% differences

<field utype="xxxx"></field>	<field utype="xxxx"></field>
<field utype="abcd"></field>	<field utype="jklm"></field>
<field utype="xxxx"></field>	<field utype="xxxx"></field>
<field></field>	<field></field>
<field></field>	<field></field>

(I think) it made it easier to see where the differences are.





Eventually .. for a standard, we need two independent implementations.

Time-series is so diverse

light-curves

Time-series of .. points

images

spectra

Unlikely that the reference implementations will cover all the areas in the same detail.



Each implementation will concentrate on their particular specialty.



lines











## Web-form application #1

## Collects details of the time series data

xfgdggsdfg

100

1 ... 10

Generate

# Generates VOTable header

<FIELD .... utype="xxxx" >

<FIELD .... utype="abcd" >

<FIELD .... utype="xxxx" >

<FIELD .... >

<FIELD .... >







## Web-form application #2

# Upload VOTable header

<FIELD .... utype="xxxx" >
<FIELD .... utype="abcd" >
<FIELD .... utype="xxxx" >
<FIELD .... >

Upload

# Generates text description of the data fields

xfgdggsdfg

100

1 ... 10

D.Morris
Institute for Astronomy,
Edinburgh University
April 2018

<FIELD .... >







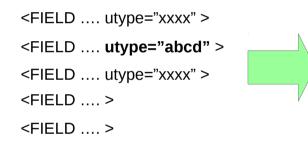
#### TAP lint for VOTable headers.

### Round trip comparison

### Web form input



#### **VOTable** header



### Text description

xfgdggsdfg	
100	
1 10	

Different developers

Different languages

Interaction between the components is defined by the data model.

Two independent inter-operable implementations, validating the data model, covering all the usecases equally.

D.Morris
Institute for Astronomy,
Edinburgh University
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### Standard templates for key use cases

I just want:

Simple light curve

Simple xxxx

Simple xxxx

Simple xxxx

Web form input

xfgdggsdfg

100



VOTable header

<FIELD .... utype="xxxx" >

<FIELD .... utype="abcd" >

<FIELD .... utype="xxxx" >

<FIELD .... >

<FIELD .... >

Text description

xfgdggsdfg

100

1 ... 10

Reference implementation for each use case

