

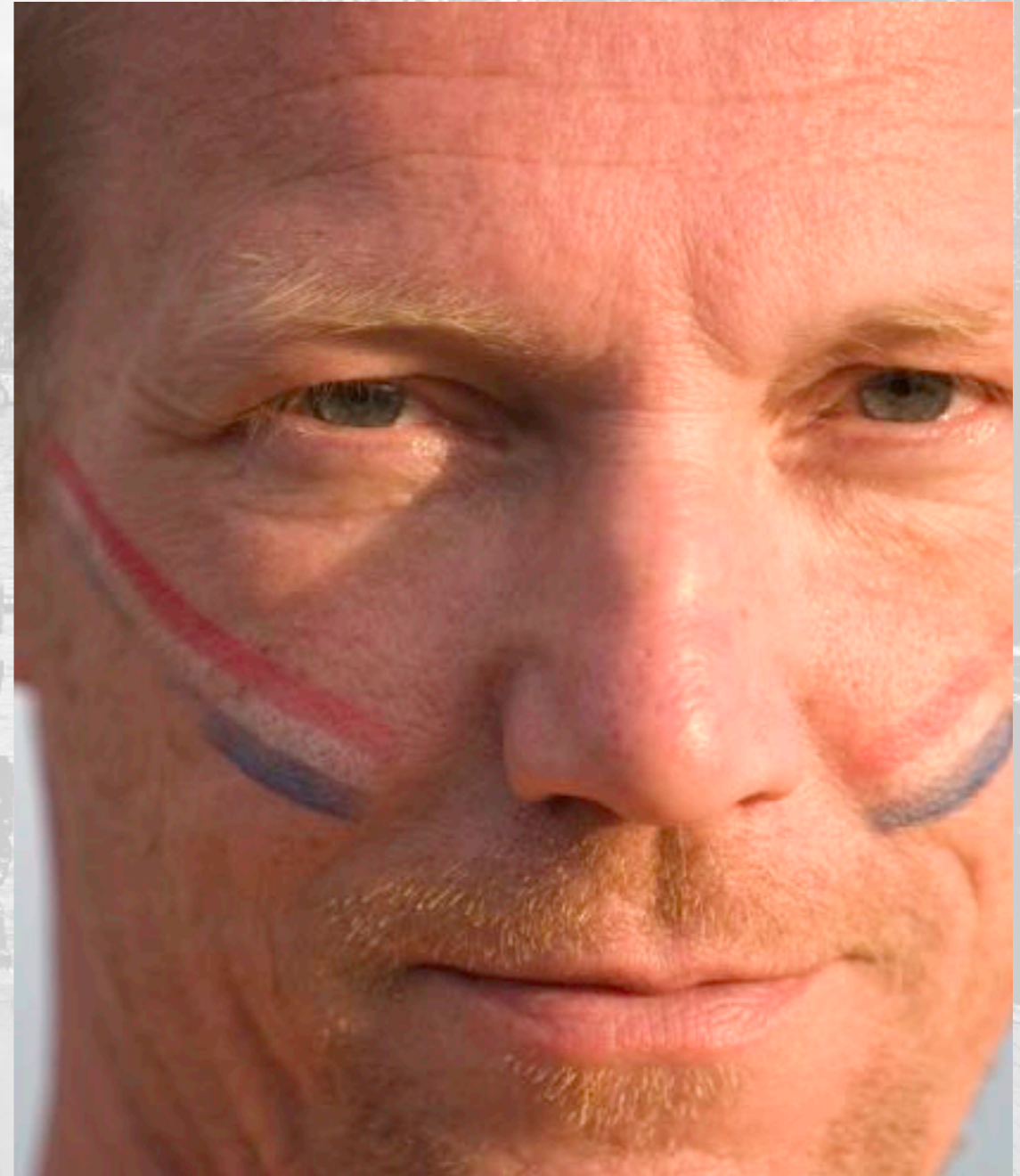
DCQL



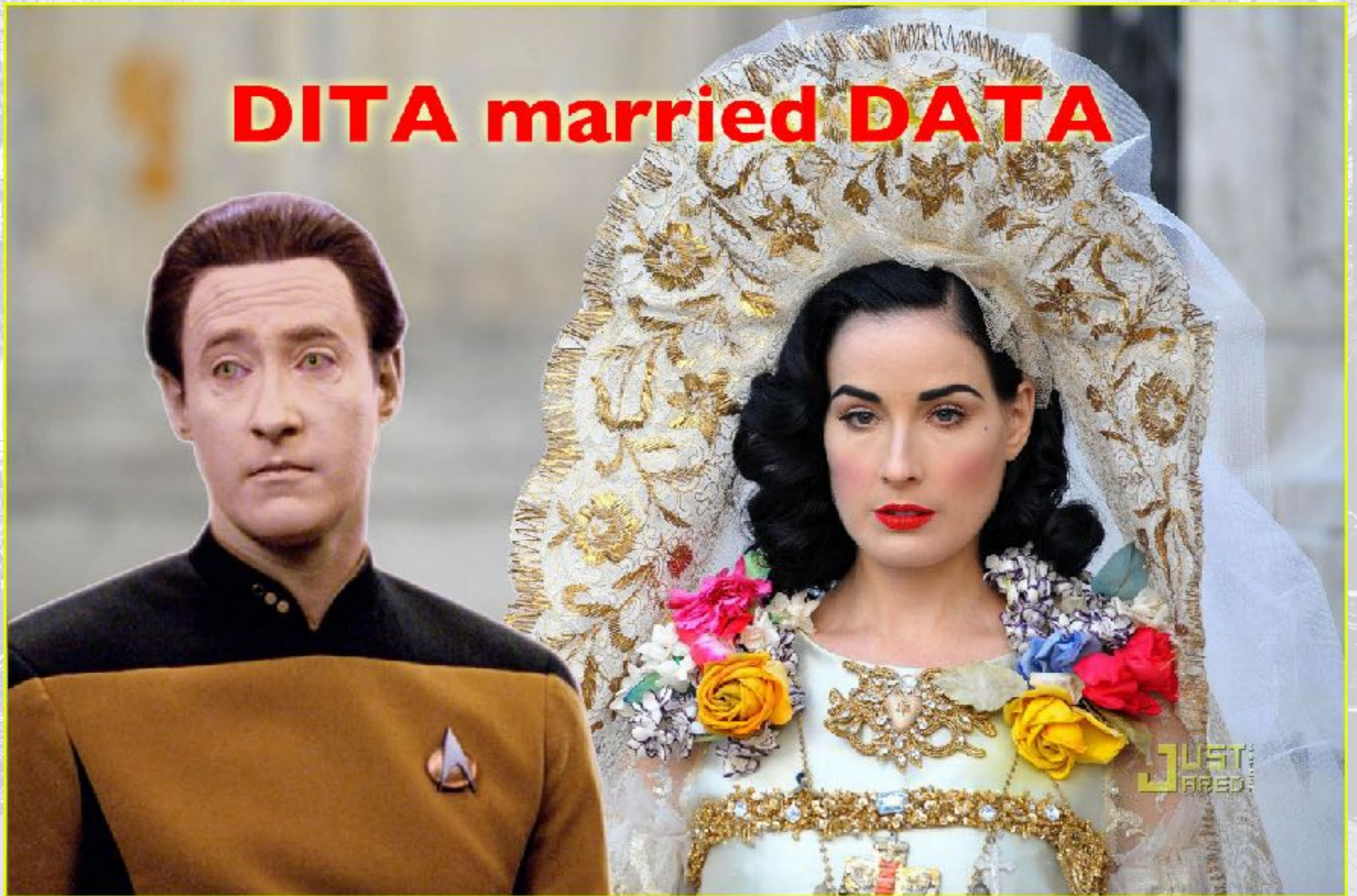
Jang F.M. Graat
Smart Information Design

Who's talking ?

- **Jang F.M. Graat**
- **Physics, Psychology, Philosophy**
- **Geek Philosopher**
- **addicted to challenge**
- **using DITA since 2005**
- **live DITA documents**



DITA married DATA



DITA + DATA

- **adding database queries into DITA content**
- **abstracting query syntax**
- **assembling full queries from snippets**
- **using familiar cascading rules**
- **resolve at publish time or runtime**
- **current: SQL, future: XQuery**

DCQL

- **datadef**
 - **all info required to access database**
 - **controlling when data query is executed**
- **@dataref - pulling data in**
- **@datacontext - sql snippets**
- **cascading rules apply**

sql datasource

```
<datadef keys="data01" href="http://mydataserver/getmydata.php">
  <topicmeta>
    <data name="type" value="MySQL"/>
    <data name="userid" value="4everJang"/>
    <data name="password" value="*****"/>
    <data deliveryTarget="pdf" name="resolve" value="onpublish">
    <data deliveryTarget="ebook" name="resolve" value="onpublish">
    <data deliveryTarget="html" name="resolve" value="onload">
    <data deliveryTarget="html5" name="keepalive" value="yes">
    <data deliveryTarget="html5" name="writeback" value="yes">
  </topicmeta>
</keydef>
```

pulling a table

```
<table dataref="source(data01) table(productdata)
fields(item,name,price,stock) order(name,stock)">
  <tgroup>
    <thead><row>
      <entry>Item</entry><entry>Name</entry>
      <entry>Price</entry><entry>Stock</entry>
    </row></thead>
    <tbody>
      <row><entry/><entry/><entry/><entry/></row>
    </tbody>
  </tgroup>
</table>
```

cascading queries

```
<topic datacontext="source(data01) item(1001)">
...
<section datacontext="table(productdata)">
  <p>The <ph dataref="field(name)">XY1001</ph>
  is the 4-cylinder version of the
  <ph dataref="item(42) field(name)">XY42</ph>.
</p>
...
<section datacontext="table(maintenance)">
  <p>Replace the oil every
  <ph dataref="field(oilfrequency)">6</ph>months with
  <ph dataref="field(oilamount)">1.2</ph>liters of
  <ph dataref="field(oiltype)">10W-40</ph>.
</p>
```


xml datasource

```
<datadef keys="data02" href="http://myexistserver/getmydata.xql">
  <topicmeta>
    <data name="type" value="exist-db"/>
    <data name="userid" value="4everJang"/>
    <data name="password" value="*****"/>
    <data deliveryTarget="pdf" name="resolve" value="onpublish">
    <data deliveryTarget="ebook" name="resolve" value="onpublish">
    <data deliveryTarget="html" name="resolve" value="onload">
    <data deliveryTarget="html5" name="keepalive" value="yes">
    <data deliveryTarget="html5" name="writeback" value="yes">
  </topicmeta>
</keydef>
```

pulling any element

```
<topic datacontext="doc('/db/products')/root()">
...
<section datacontext="products[@id='1001']">
  <p>The <ph dataref="name">XY1001</ph>
  is the 4-cylinder version of the
  <ph dataref="../products[@id='42']/name">XY42</ph>.
</p>
...
<section dataref="maintenance[@id='1001']"/section>
```

todos ?

- **add more SQL options**
- **add NoSQL, other query languages (?)**
- **create DITA-OT plugin**
- **create writeback code for HTML5**
- **do some paid work**

queries ?



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