PRESS ASSOCIATION

Elegant, frictionless tools for metadata management

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Agenda

- PA
- Business buy-in
- Project drivers
- Technical background
- Business engagement
- What worked well
- What didn't work well
- Data considerations

PA

- Founded 1868
- Content
- Data and listings
- Services
- Meteo Group
- Data provider to 2012 Olympics
- Digital products and semantics

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Business buy-in

- Senior management
 - Cost savings
 - Product innovation
- Support active leadership in media semantics
 - Dynamic publishing
 - SNaP Ontology
 - Relationships with research and commercial partners



Project drivers

- Help journalists take responsibility for curation
 - Rapid data entry
 - Attractive UI
 - Hide complexity
- Gather structured information efficiently
 - Rich fact-gathering
- Centralise metadata gathering
 - De-duplication
 - Spreadsheets everywhere!



"Deckard"

- Off-the-shelf metadata management products investigated
 - -Cost
 - -Functionality
 - -Technical integration
- In-house prototype project
 - -People and Organisations

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- -Searchable
- -Bulk upload
- -Candidate entity queue



A developer point of view

The Deckard project presented one main challenge.

To make the user want to use Deckard!

Which in turn unfortunately lead to a number of technical challenges!

- Using external sources enhance manually inputted data
- Simple methods to edit an entity
- Immediate and rewarding feedback to users
- Outputs in various formats useful to the user and other parts of the business



Design

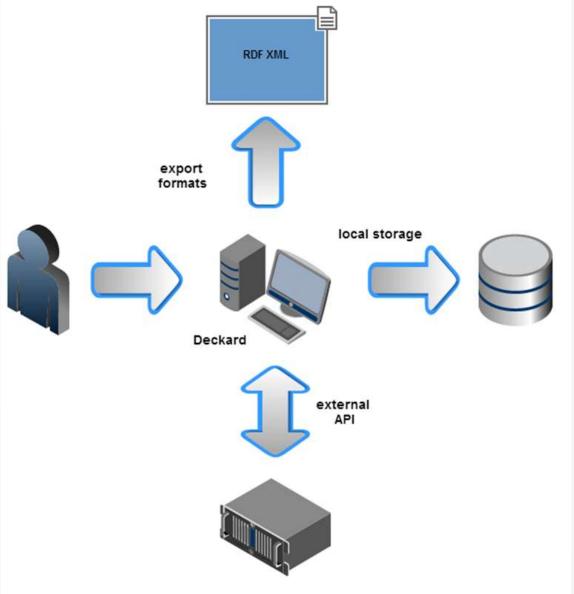
- As fun to use as possible
- A pleasant experience
- The least amount of clicks
- Maximum collection of data







Architecture





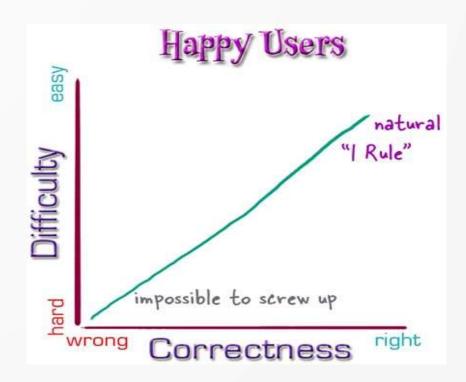
The Front End

The jQuery library used extensively to achieve the following:

- Dynamic interaction with data
- Increased speed with fewer page reloads
- Immediate feedback to the user

All the features users love!

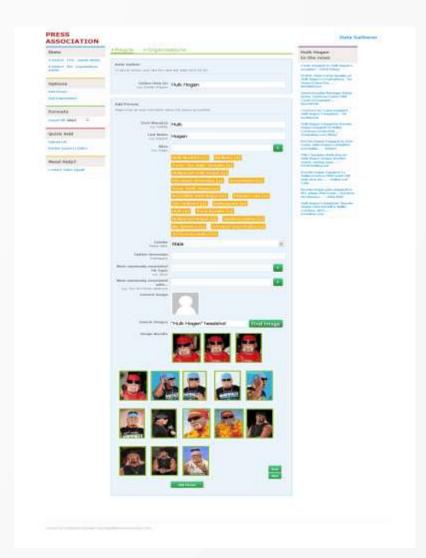
Make the user happy, keep them on Deckard, feeding in the data!





The Front End - Examples

- Freebase search auto suggest
- Dynamic generation of PA image search results
- Data containers created and removed on the fly
- Updating side bars with relevant news and tweets





The Back End

A far more boring place to be!

In lines of code this is quite a small project so it was decided to develop it in PHP and MySQL

- Specifically designed for web applications
- Simple code language
- Respond quickly to changing specifications
- Easy to change data structures
- Quick deployment
- Testing frameworks PHPunit
- Many free to use PHP libraries available e.g. twitter, freebase



APIs

- Back end APIs
 - Used to discover data
 - Freebase entity discovery
 - Geonames silent API
 - PA Images Search API
- Front end APIs
 - Used to populate sidebars and enhance user experience
 - Wikipedia Info box
 - Twitter API latest tweets
 - Google News recent news

What about the poor user?

So after all this back end crunching and processing what does the user get for all their efforts



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Stats

A total of 1301 people added A total of 403 organizations added

Options

Add Herson

Add Departments

Formats

Export All select

This Person Select

Quick Add

Canton Carl

Review Querre [12306]

Need Help?

Contact Halos Lippell

People +Organisations

Patrick Moore

tic Fatrick Affred Califered Hoore, CBE, FRES, FRAS (born a March 1927) is a Bittish amateur antronomer yelo has attained previoues, status in antronomy as a writer, measurber, radio commentator and falerosics presenter, and who is credited as having done more than any other person to raise the profile of astronomy among the British general public. He is a former president of the British Astronomical Association, co-founder and former president of the Society for Popular Astronomy (SPA), author of ever 70 books on astronomy, and processor of the weeld's longest number of longest sense at tit the same original presenter. The Sky at Night on the BBC. As an astator active opening the Califered Cartalogue, Bidosyntrasies such as his radio diction and monocle have made him a popular and inetantly recognisable figure on British tolervision. Hooce is also a self-taught, sylaphore and plano player and an exposular and inetantly recognisable figure on British tolervision. Hooce is also a self-taught, sylaphore and plano player and an exemption of proposer, and a

former amateur cricketer, golfer, and chess player. In addition to his many popular science books, he has written numerous works of fiction, and was the presenter of the 1990s TV series GamesMaster. An

Gonder: male

Born: 4th of March 1923

Place Of Birth: Pinner Died: 2013-12-09

Common Aliases: Sir Patrick Affred Caldwell-Moore

Sir Patrick Moore

Alfred Patrick Caldwell-Hoore



Wen Larger Has

Perfective Astronomer Presenter Writer

Association

Astronomy British Broadcasting Corporation The Sky at Night MEDIA SCIENCE

More Links

http://en.wikipedia.org/wiki/index.html?curid=189654

http://openibrary.org/authors/OL28366A

http://www.daylife.com/topic/66s#5WafCZ6el

http://www.tyrage.com/person/ld-21793

http://d.loc.gov/author/bes/sames/n79082293.html

http://viat.org/viat/32062500/

http://de.wikipedia.org/wiki/index.html/curid=371446

http://ee.arkipedia.org/edki/index.htm?rcarid=655501 http://t.mikipedia.org/edki/index.htm?rcarid=1837319

http://fr.wikipedia.org/wiki/index.html?curid=4507266

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Patrick Moore In the news

Stars pay tribute to Se Patroli. Hours, the max who took as not space. The independent

Sir Patrick Moore, 89, Dies At Home - Sky News

Sir Potrick Moore: the exceptic amoteur who became a TV star | Science | The ... - The Guardian

Str Patrick Piscru des agui IIV vides | Science | guardies.cu.ok - The Guardies

Sir Potrick Places: Astronomer is ho presented "The Bity At Wight" for more half a ... - The Indonesidad.

Putrick Hours (ritutes pour s. after astronomer dies aged 68) 98 news ___ The Guerline

Sir Patrick Hoore: Chris Laitet's tribate - BBC News

Sir Patrick Planes Your manuries - 68C france

Sir Patrick Moore Yelograph.or.uk

Sir Patrick Ploore dies aged 89 -Telegraph co.uk

Export Formats

Data can be exported in the following formats:

- RDF XML
- Turtle
- Triples
- JSON

```
@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
                   @prefix pns: <http://data.press.net/ontology/stuff/> .
                  @prefix pni: <http://data.press.net/ontology/identifier/> .
                 @prefix foaf: <http://xmlns.com/foaf/0.1/> .
                 @prefix time: <http://www.w3.org/2006/time#> .
                 @prefix xsd: <http://www.w3.org/2001/XMLSchema#>
                  <a href="http://data.press.net/stuff/b75a6a0f-3f9a-4639-8739-ea54ff06b43">http://data.press.net/stuff/b75a6a0f-3f9a-4639-8739-ea54ff06b43</a>
09.
                             a pns:Person ;
                             pni:hasIdentifier <a href="http://rdf.freebase.com/ns/en.idris">http://rdf.freebase.com/ns/en.idris</a> elba>
10.
                             foaf:givenName "Idris"@en ;
11.
12.
                             foaf:familyName "Elba"@en ;
                             pns:name "Idris Elba"@en ;
13.
14.
                             pns:alias "Idrissa Akuna Elba"@en, "DJ Big Driis"@en, "Big Driis The Londoner"@en, "E
15.
                             foaf:gender "male" ;
                             pns:placeOfBirth <http://sws.geonames.org/2646476/>;
16.
17.
                             pns:dateOfBirth [ time:inXSDDateTime "1972-09-06T00:00:00Z"^^xsd:dateTime ] ;
                             pns:notablyAssociatedWith <a href="http://rdf.freebase.com/ns/en/the-wire">http://rdf.freebase.com/ns/en/the-wire</a>, <a href="http://rdf.freebase.com/ns/en/the-wire</a>, <a href="http://rdf.freebase.com/ns/en/the-wire</a>, <a href="http://rdf.freebase.com/ns/en/the-wire</a>, <a href="http://rdf.freebase.com/ns/en/the-wire</a>, <a href="http://rdf.freebase.com/ns/en/the-wire</a>, <a href="http://rdf.freebase.com/ns/en/the-wire</a>, <a href="http://rdf.freebase
19.
                             pns:preferredImage <http://data.press.net/assets/i/2.11643964> .
20.
21.
                  <a href="http://rdf.freebase.com/ns/en.idris_elba">http://rdf.freebase.com/ns/en.idris_elba</a>
22.
                             a pni:Identifier ;
23.
                             pni:authority <urn:freebase.com> .
24.
25.
26.
                 <http://data.press.net/stuff/4d76a14d-e7e6-47a3-9f2a-a587ead137f1>
27.
28.
                             a pns:Person ;
29.
                             pni:hasIdentifier <http://rdf.freebase.com/ns/en.ukasz_kubot> ;
30.
                             foaf:givenName "Lukasz"@en ;
31.
                             foaf:familyName "Kubot"@en ;
32.
                             pns:name "Lukasz Kubot"@en ;
                             pns:alias "\u00C5\u0081ukasz Kubot"@en ;
33.
34.
                             foaf:gender "male";
35.
                             pns:placeOfBirth <http://sws.geonames.org/3102987/> ;
36.
                             pns:dateOfBirth [ time:inXSDDateTime "1982-05-16T00:00:00Z"^^xsd:dateTime ] ;
37.
                             pns:notablyAssociatedWith <a href="http://rdf.freebase.com/ns/m/0k8fkv2">http://rdf.freebase.com/ns/m/0k8fkv2</a>, <a href="http://rdf.freebase.com/ns/m/0k8fkv2">http://rdf.free
38.
                             pns:preferredImage <a href="http://data.press.net/assets/i/2.16957560">http://data.press.net/assets/i/2.16957560</a> .
39.
40.
                 <a href="http://rdf.freebase.com/ns/en.ukasz_kubot">http://rdf.freebase.com/ns/en.ukasz_kubot</a>
41.
                             a pni:Identifier ;
42.
                             pni:authority <urn:freebase.com>
43.
44.
45.
46.
                 <http://data.press.net/stuff/377345e5-20bd-4058-8e28-e2bbece2de62>
47.
48.
                             pni:hasIdentifier <http://rdf.freebase.com/ns/en.nicole_farhi> ;
                             foaf:givenName "Nicole"@en ;
                             foaf:familyName "Farhi"@en ;
51.
                             pns:name "Nicole Farhi"@en ;
52.
                             pns:alias "Lady Hare"@en ;
53.
                             foaf:gender "female";
54.
                             pns:placeOfBirth <a href="http://sws.geonames.org/2990440/">http://sws.geonames.org/2990440/">
;
55.
                             pns:dateOfBirth [ time:inXSDDateTime "1946-07-25T00:00:00Z"^^xsd:dateTime ] ;
56.
                             pns:notablyAssociatedWith <a href="http://rdf.freebase.com/ns/user/jihnken/fashion_re">http://rdf.freebase.com/ns/user/jihnken/fashion_re</a>
57.
                             pns:preferredImage <http://data.press.net/assets/i/2.5326235> .
```

Future Development

- Move away from MySQL and write data straight to a Mark Logic database before that data will be exported to the triple store
- Addition of more entities e.g. events
- Pull in more data from more external sources
 - IMDB
 - Facebook
- Pull in more data from internal sources
 - PA News Feeds
 - PA Video
 - PA Galleries
- Back to Helen ©



Business engagement

- Small, targeted data curation pilots
- Getting feedback on UI
- Use familiar terminology e.g. PA Topics
- Workshops and smaller progress meetings



What worked well

- Demonstrable and iterative progress
- Clean UI focussed around our requirements
- Easy way of building up "newsworthy" data set
- Collaborative development process
- Stimulated interest in semantics



Challenges

- Wider business changes
- Resource constraints
- Tagging seen as 'more work'
- Building trust in the data
- Chicken and egg of metadata benefits
- Tool not production-ready...yet
- Workflow v need to break news



Data considerations #1

- Disambiguation
 - Validation not fuzzy yet e.g. salutations, middle initials
 - Transliterations
 - Punctuation
 - Jonathan Davies, James Wharton, FSA, Liberty
- Adding related concepts
 - -e.g. Roles, organisations, spouses, scandals, films
- Ongoing maintenance and updates
 - e.g. Deaths, marriages, honours, job moves, name changes
 - Mrs Thatcher, Jose Mourinho, EE, Lily Allen, Heathrow, Sir Tony Robinson, News UK
- Provenance and quality of third party data



Data considerations #2

- Topicality and building up the semantic graph
 - Leveson, horsemeat, recession, Operation Yewtree, MPs
- Planning around scheduled events
 - Awards, sports tournaments, TV shows

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