The National Archives
Traces through Time

IEEE Computational Archival Science workshop

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8 December 2016
Connected data
The challenges

Diversity

‘Fuzzy’ data

Confidence
The TTT data linking pipeline

1. Prepare Data
2. Linking and Confidence
3. Publish links
Early data:

1291 June 8, Norham. *Inspeximus* and confirmation of the settlement of a dispute between Godfrey, bishop of Worcester, and Gilbert de Clare, earl of Gloucester and Hertford, and his wife Joan, in relation to the raising of a dike by the earl and countess on the bishop’s land on top of Malvern, Worcestershire. The dispute was resolved with the intervention of Robert Burnel, bishop of Bath and Wells, and other friends, on the basis...

Reference: ADM 159/24/2835

Description: Name Carter alias Mc Carthy, Frederick alias Florence

Register Number: 2835

Division: Royal Marine Artillery

When Enlisted/Date of Enlistment: 18 March 1886

Date of Birth: 18 August 1867

Date: [1877-1887]
The TTT ‘person’ data model and schema

{"ref":"TTT-C1868_25496",
"type":"MALE",
"timestamp":"2016-01-15",
"hasFamilyNames":
[{
"order":1,"familyName":{"name":"Carter"},
"familyNameAliases":[
{"type":"alternative","familyName":{"name":"Carthy"},
"hasParticles":{"particle":{"name":"Mc"}}}
]
}],
"hasForeNames":
[{
"order":1,"foreName":{"name":"Frederick"},
"foreNameAliases":[
{"type":"alternative","foreName":{"name":"Florence"}}
]
}],
"hasEvents":
[{
"event":{"type":"birth","hasDay":{"value":18,"hasMonth":{"value":8,"hasYear":{"year":{"value":1867}}}}},
"event":{"type":"enlistment","hasDay":{"value":18,"hasMonth":{"value":3,"hasYear":{"year":{"value":1886}}}}}
}],
"hasReferences":
[{
"reference":{"name":"2835","genre":"maritime","type":"service"}
}],
"hasRoles":
[{
"organisation":{"name":"Royal Marine Artillery"}
}],
"hasOccupations":
[{
"occupation":{"genre":"maritime","name":"marine"}
}],
"inContainer":
{"context":{"name":"Carter alias McCarthy, Frederick alias Florence; 2835, Royal Marine Artillery, 18 March 1886, 18 August 1867"},
"inContainer":
{"document":{"name":"ADM 159/24/2835","ref":"D7753448"},
"URL":"http://discovery.nationalarchives.gov.uk/details/r/D7753448",
"hasStartYear":{"year":{"value":1877}},{"hasEndYear":{"year":{"value":1887}}}
}]

https://github.com/nationalarchives/traces-through-time/
The archival catalogue as a graph
Missing data

<table>
<thead>
<tr>
<th>Name in full</th>
<th>Elizabeth Ross</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date of Birth</td>
<td>26</td>
</tr>
<tr>
<td>Date of enrolment</td>
<td>28 May 1918</td>
</tr>
<tr>
<td>Ship or Establishment</td>
<td>&quot;Thalia&quot;</td>
</tr>
<tr>
<td>List No.</td>
<td>2 12</td>
</tr>
<tr>
<td>Rating</td>
<td>Housemaid</td>
</tr>
<tr>
<td>Period of Service</td>
<td>Mag 31 Dec 1918</td>
</tr>
<tr>
<td>If discharged, when</td>
<td></td>
</tr>
<tr>
<td>Character &amp; Ability</td>
<td></td>
</tr>
<tr>
<td>Remarks</td>
<td></td>
</tr>
<tr>
<td>Next of Kin</td>
<td>Mother</td>
</tr>
<tr>
<td></td>
<td>Douglas Ross</td>
</tr>
<tr>
<td></td>
<td>Aberlady</td>
</tr>
<tr>
<td></td>
<td>E Lothian</td>
</tr>
</tbody>
</table>
Inaccurate dates

Is that 1893?
Or is it 1892?
Alternative names

What are the chances of “Henry” being known as “Harry”?

[Handwritten document image]
Inference – is that a ‘T’ or a ‘J’?

MH 47  Percy Thomas Boulonois

WO 372
Percy J. Boulonois
GS/27645

CWGC database
Percy Thomas Boulonois
28645
1913
Divorce court file 4096
Type: Husband’s petition for divorce

Appellant:
Charles Edward Hamond

Respondent:
Vera Bethune Hamond

Co-Respondent:
John Henry Kay Clegg

1919
Divorce court file 4392
Type: Husband’s petition for divorce

Appellant:
John Harry Kay Clegg

Respondent:
Vera Bethune Clegg

Co-Respondent:
L Dowes
More linking: The Wyndowe family

Title: Wyndowe, Samuel Jardine [M 1854]
Reference: IOR/L/MIL/9/395/213-17
Held by: British Library: Asian and African Studies

Churchdown St. Bartholomew: Oak Tablet in memory of Samuel Jardine Wyndowe Brass Tablet in memory of William Thomlinson Wyndowe Repositioning of previous tablets

This record is held by Gloucestershire Archives

Wyndowe, Samuel Jardine Madras Med Svce
IOR/L/MIL/11/81 f.285
British Library: Asian and African Studies (pre
Publish to discovery

Discovery – Design, testing and refinement

Name Minall, Alfred Frederick Official Number: M27938 Place of Birth: ...

Download this record
Download size approximately 0.5 MB

View delivery options presented to other users
This record is available to view with our image viewer. Show images

Reference: ADM 188/1073/27938
Description: Name Minall, Alfred Frederick Official Number: M27938 Place of Birth: Howe, Sussex Date of Birth: 10 April 1894
Date: [1917]
Held by: The National Archives, Kew
Former reference in its original department: Vol No. M27-2
Legal status: Public Record
Closure status: Open Document, Open Description

Other possible matches
The following records may be related to the individual mentioned in this description. The percentage shows the likelihood it is a match. We cannot guarantee it is the same individual.

ADM 363/167/88
Minall, Alfred Frederick
Service Number: M.27938
Date of Birth: 10 April 1894
Continuous service record
Strong match

ADM 363/167/88
Minall, Alfred Frederick
Service Number: 1/304
Date of Birth: 10 April 1894
Continuous service record
Strong match

Add a tag
Users have not yet tagged this record
You need to sign in to tag records. If you don’t have an account please register.

Found an error?
If you find an error with this record description let us know

The National Archives
Discovery: Other possible matches
Gerald Nassau Stewart Lane.

Other possible matches  BETA

The following records may contain information about the person described above. As the links are found by computer analysis, we cannot guarantee they are the same individual or that every record in which the person appears will be listed.

**AIR 76/286/20**

Lane, Gerald Nasseau Stuart  
Date of birth: 29 August 1899

View this record  
Air Officer’s service record

**AIR 76/288/41**

Lano, G N S

View this record  
Air Officer’s service record
What do we need now?

New archival thinking

• Probability, uncertainty and confidence
• Contextualisation
• Different uses and different voices

New computational methods and tools

• User experience and presentation
• Graph and probabilistic databases

New partnerships and collaborations