

Using automatic transcription for processing historical sources

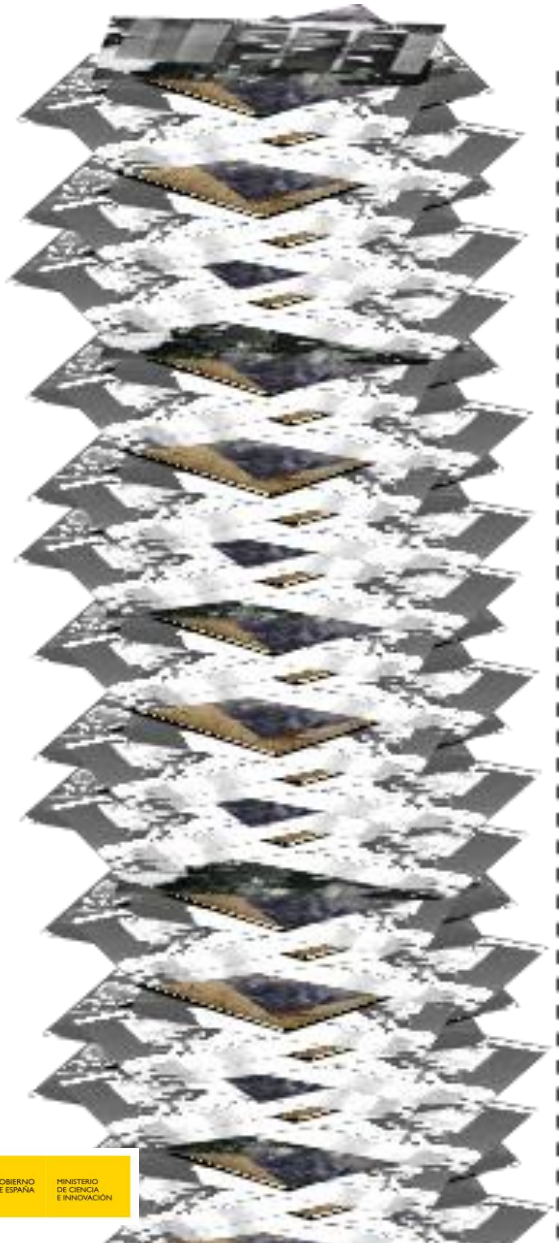
The Rules: Captatio benevolentiae

- This keynote is rather short, you are meant to **interrupt me at ANY time** if you feel you need me to clarify / further questions.
- This is an overview of what are the challenges associated with using Computer Vision in demographic sources, **do not take this lecture as a technical discussion.**
- Seeing faces in an online call is always welcome :)



~8km

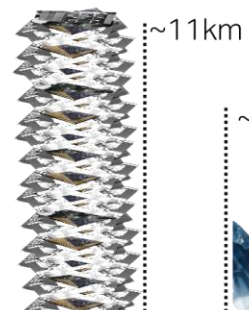
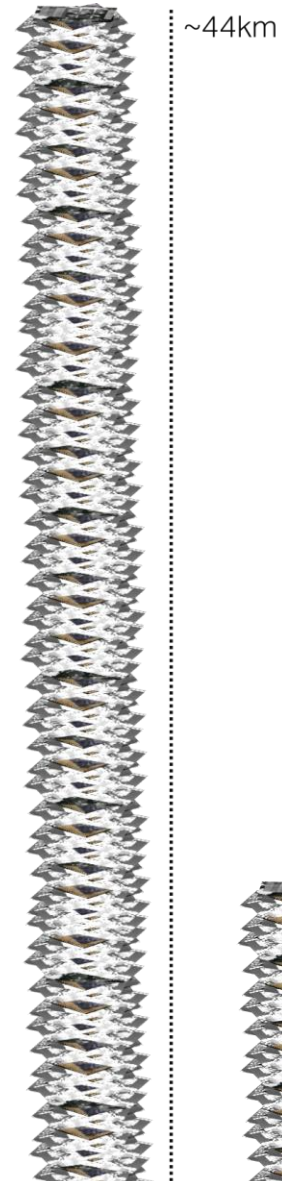




~11km

~8km





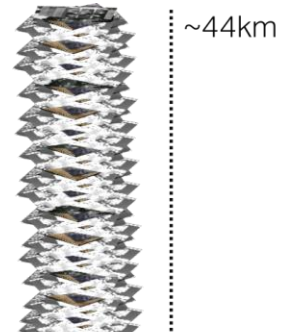
5 minutes per photo

- $[5 \times 40000000] / 60 = 3333333$ hours

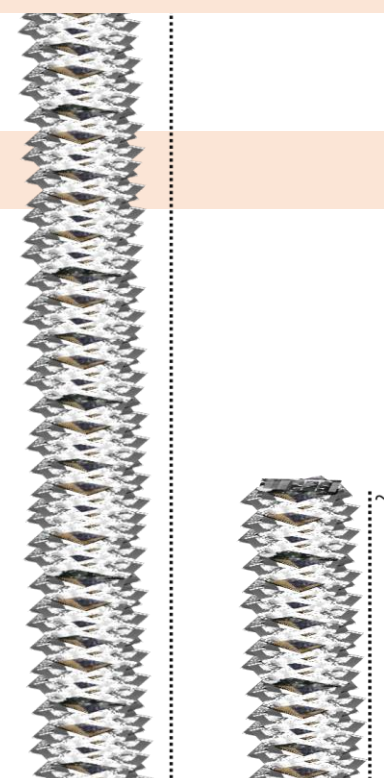
Number of working days

- $[3000000 / 8] / [5 \times 4 \times 12] = 1562.5$ years

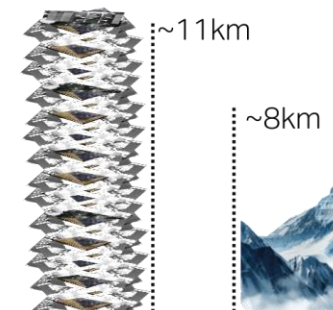
Working days on a year



~44km



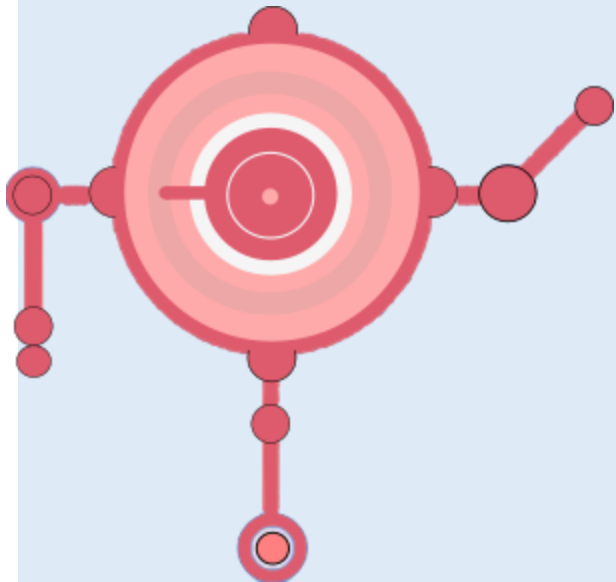
~11km



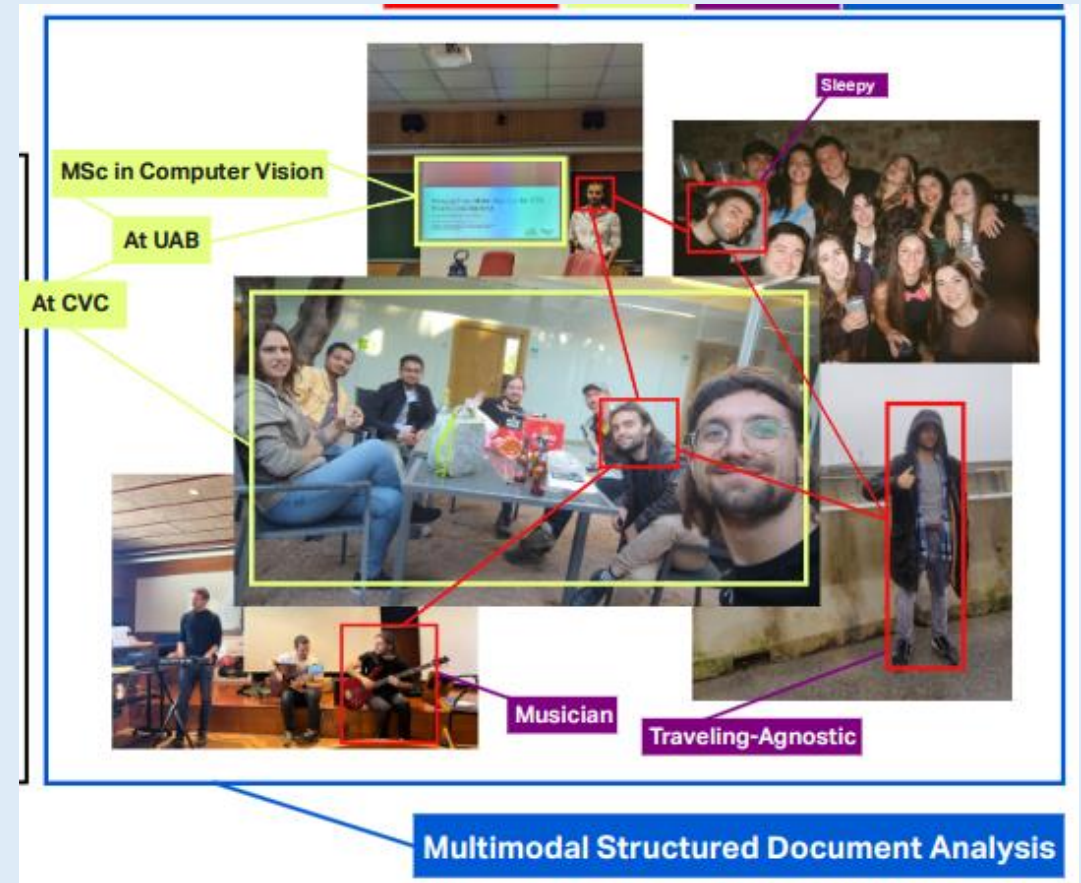
~8km

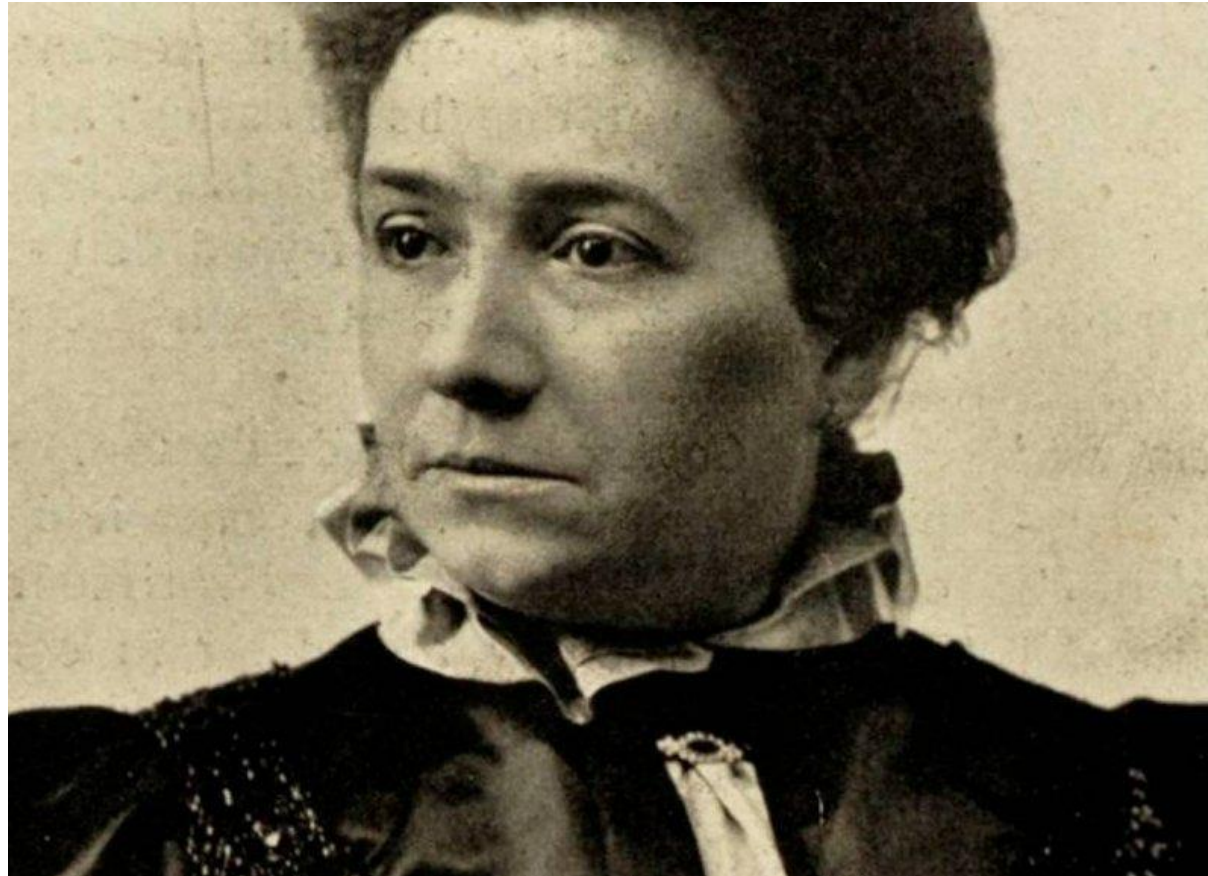
El Centre de Visió per Computador

Multi-Modal Structural Reasoning for Historical Document Information Extraction



Adrià Molina Rodríguez
Advisors: Josep Lladós,
Oriol Ramos







Who is the woman in the picture?



The woman in the picture is Jane Toppan, also known as "Jolly Jane." She was an American serial killer who confessed to 31 murders in 1901. She was a nurse who used her position to kill her patients by poisoning them. Toppan's crimes were discovered in 1901, leading to her arrest and subsequent trial, where she was found not guilty by reason of insanity and committed to a mental institution for life.





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Mujeres Valientes
Elena Maseras, la primera mujer que p...



Innovadoras
Elena Maseras, la primera médica ...



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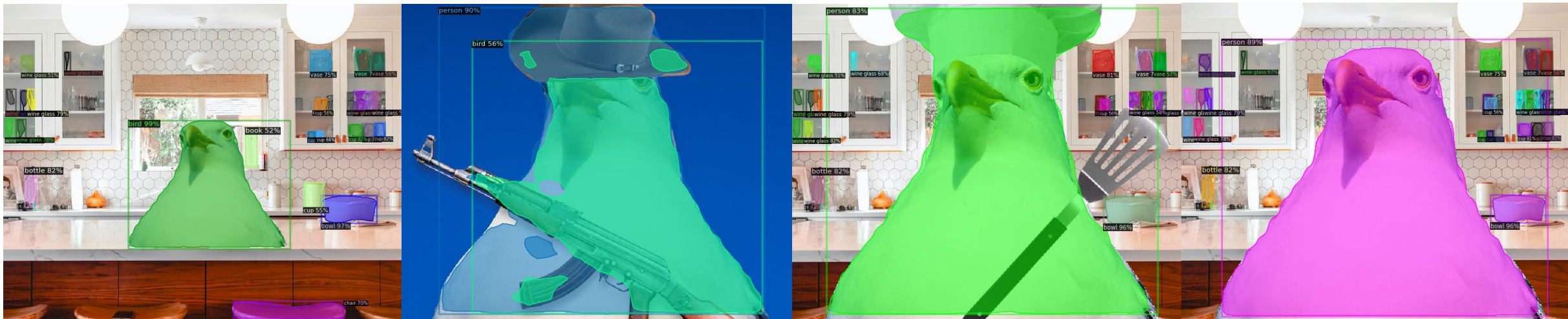
Why does this happen?

Hallucinations

Why does this happen?

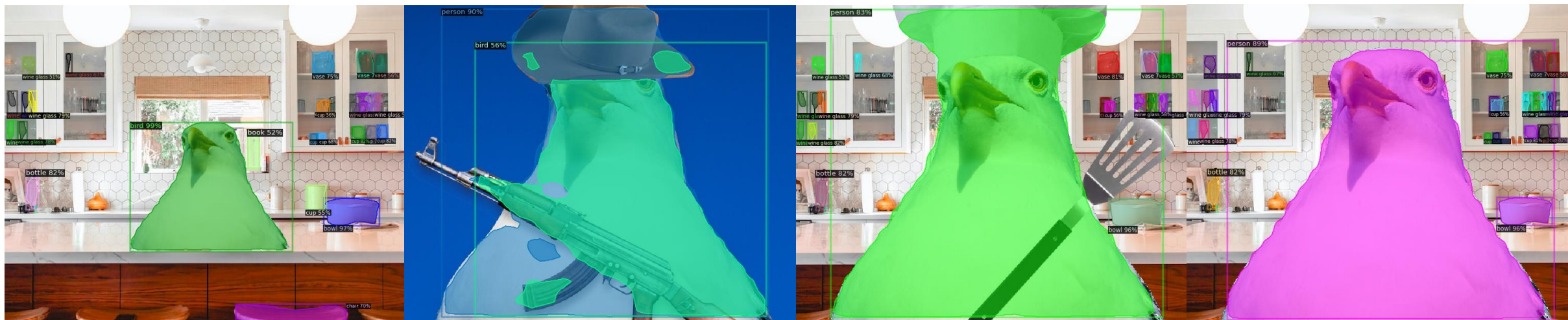
Spurious Correlations

When Plato gave the tongue-in-cheek definition of man as "featherless bipeds" Diogenes plucked a chicken and brought it into Plato's Academy, saying, "Behold! I've brought you a man"



100% Bird

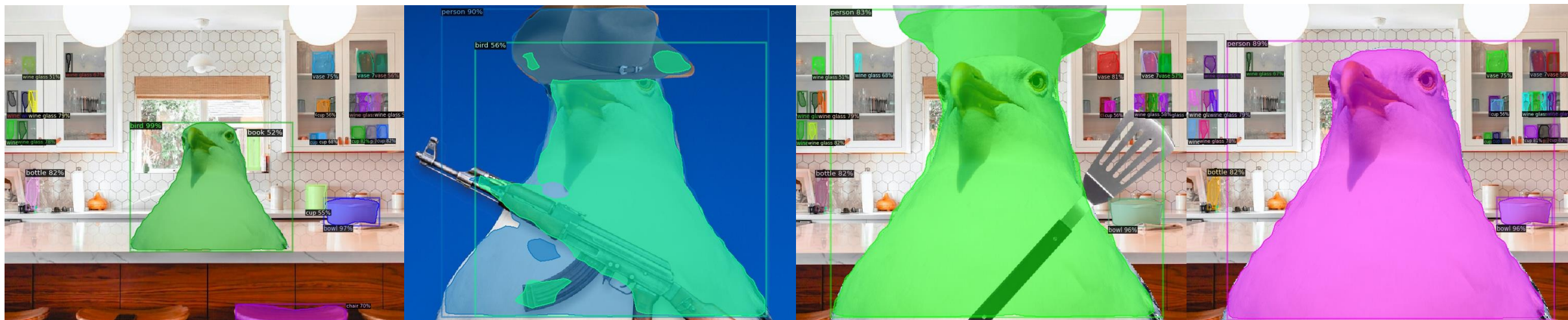
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100% Bird

Human-Bird Hybrid

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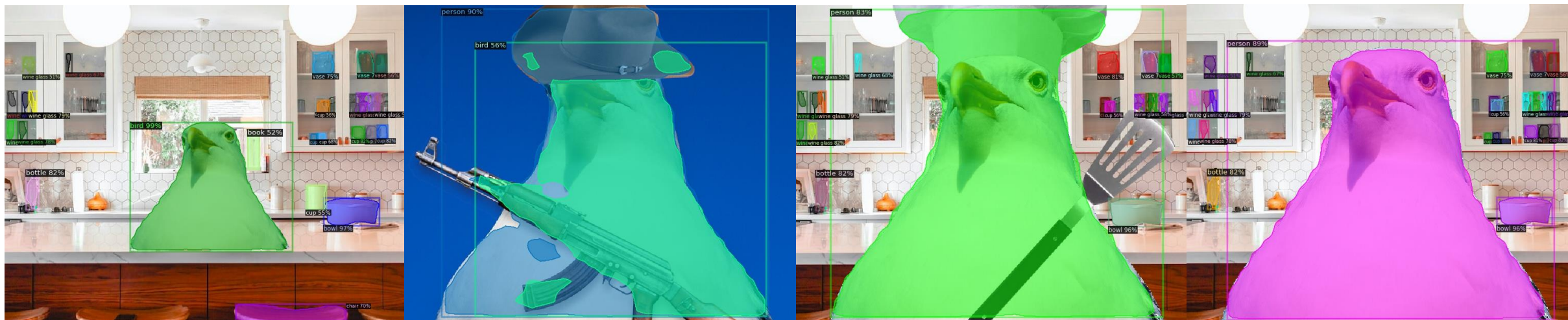


100% Bird

Human-Bird Hybrid

100% Person

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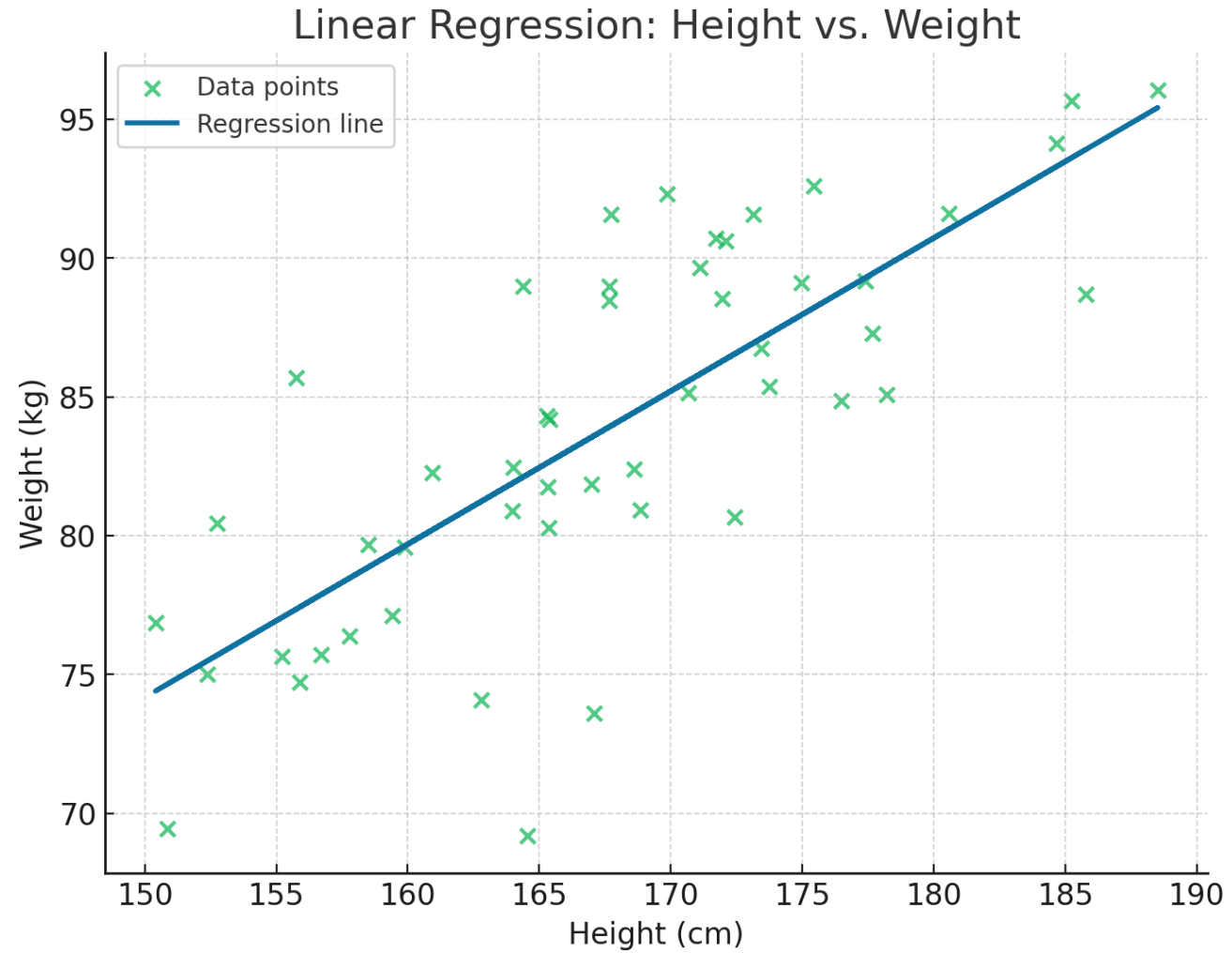
100% Bird

Human-Bird Hybrid

100% Person

100% Person

Deep learning cares too little about facts



Deep learning cares too little about facts



Qui és aquesta persona?

????



La persona a la imatge és **Frederica Montseny**, una destacada activista anarquista i política espanyola. Va ser una de les primeres dones a ocupar un càrrec ministerial a Europa, servint com a Ministra de Sanitat durant la Segona República Espanyola. Montseny va ser una figura clau en el moviment anarquista i va treballar per la reforma social, especialment en temes de salut i drets de les dones.

🔊 📄 🔄 🗨️ 🔊 40

Multi modal context is key!



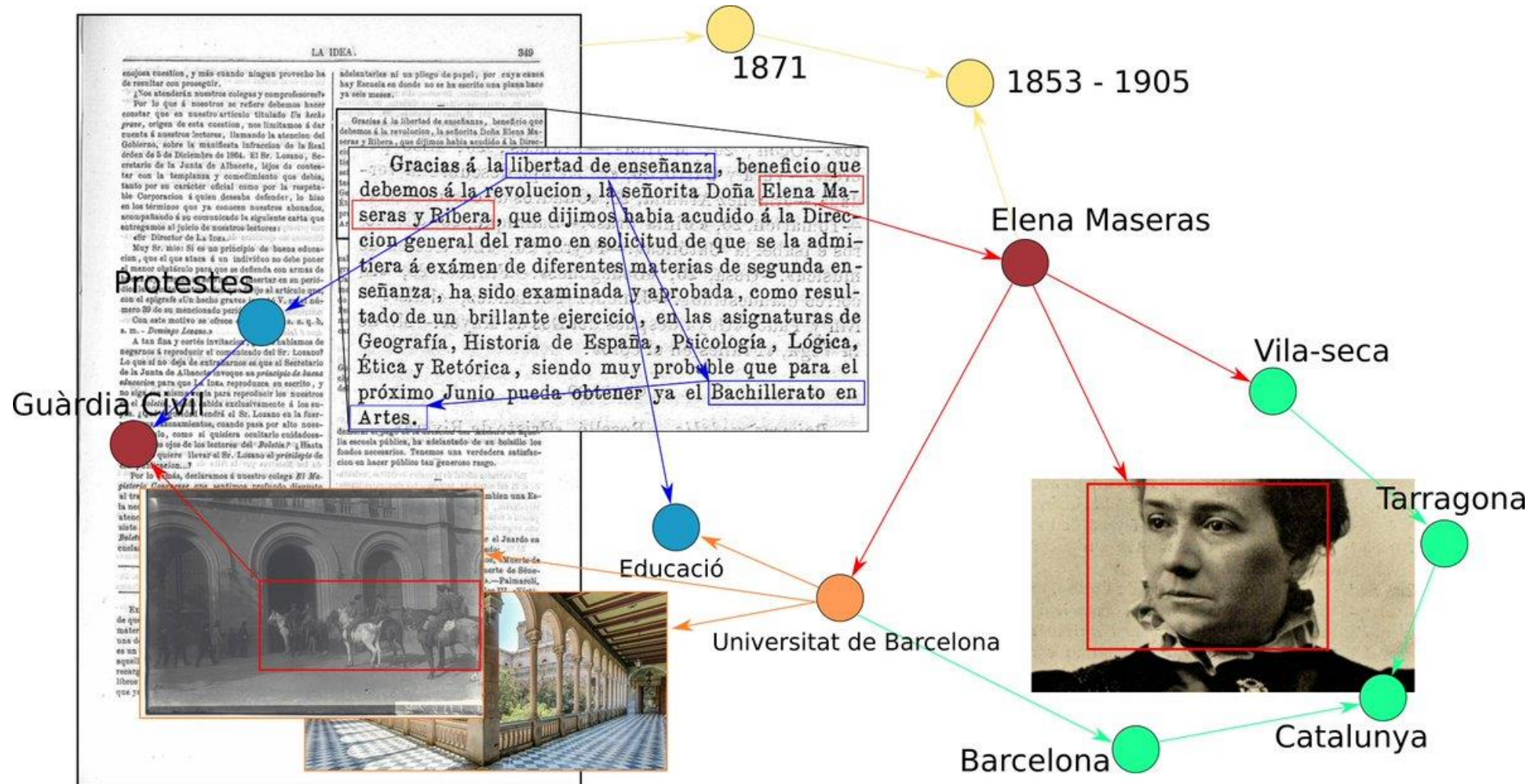
Qui és la persona de la fotografia?



La persona a la fotografia és **Dolores Ibárruri**, també coneguda com "La Pasionaria". Era una destacada líder comunista espanyola i figura important durant la Guerra Civil Espanyola i la postguerra, coneguda pel seu fervent discurs i la seva defensa dels drets dels treballadors i contra el règim franquista.

🔊 📄 🔄 🗨️ 🔊 40

Deep learning cares too little about facts



Xarxes: A digital twin for our history

Marriage records

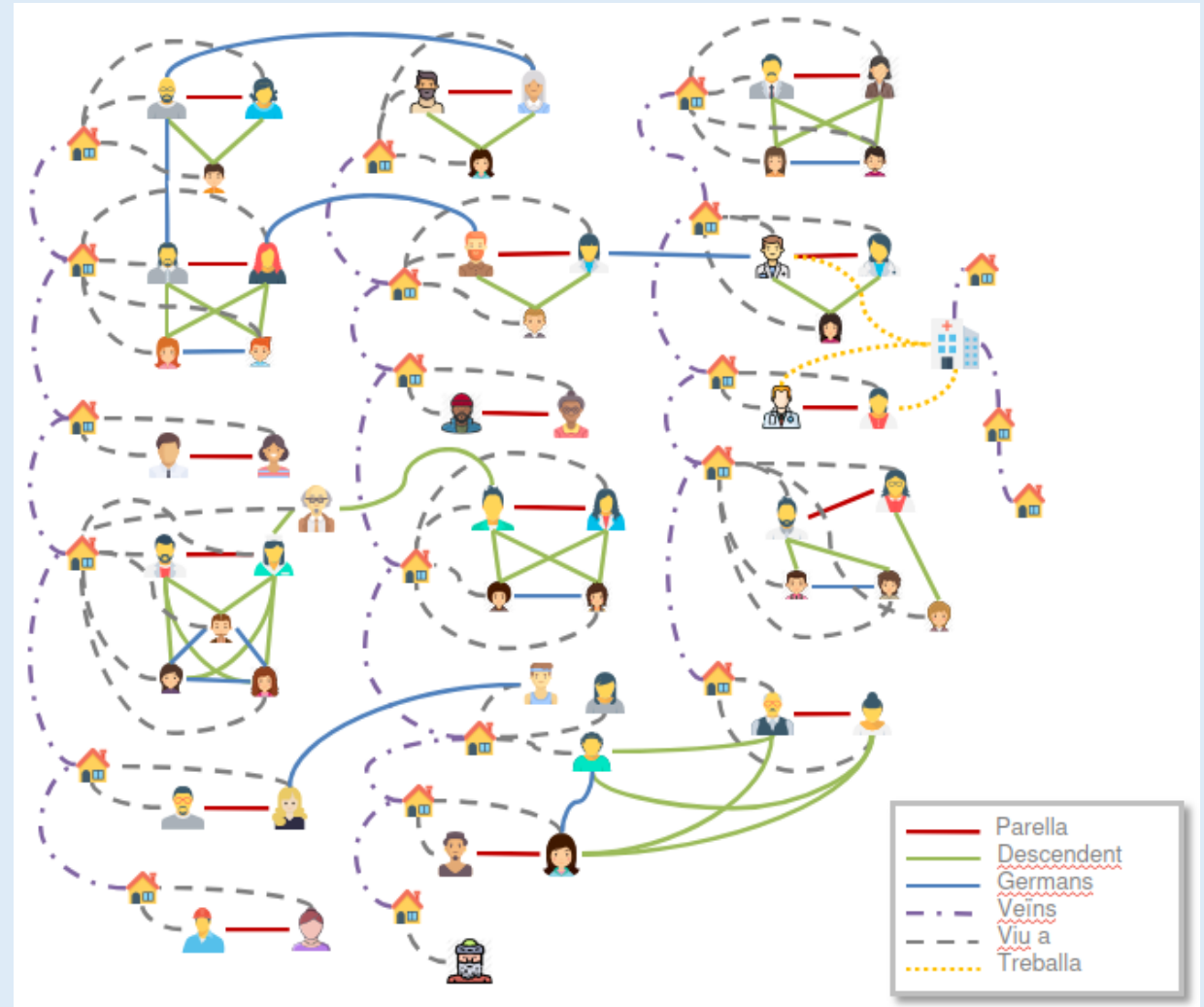
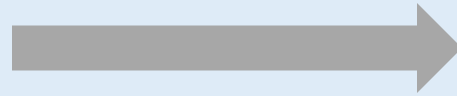


Local census

NÚMERO		Calle, plaza, poseso, caserio, cortijado, etc.	NOMBRES Y APELLIDOS	Fecha del nacimiento	Parentesco o grado de consanguinidad con el cónyuge de familia
De orden	De las hojas				
165	3	C/ de Sanville 209	Gertraud Parrella Puigventós	18-10-1888	Esposa
			Juan Juli -Llo	05-1-1888	Hijo
			Josefa Parrella Arbes	04-7-1888	Esposa
			Paulina Juli Parrella	01-8-1888	Hija
166	1	id.	Jose Xarfe Fils	7-3-1888	Hijo
167	3	id.	Juan Blado Xarfe	7-6-1888	Hijo
			Gertraud Parrella Puigventós	18-10-1888	Esposa
			Andreu Blado Parrella	16-6-1888	Hijo
168	3	id.	Manuel Parrella Puigventós	18-10-1888	Hijo



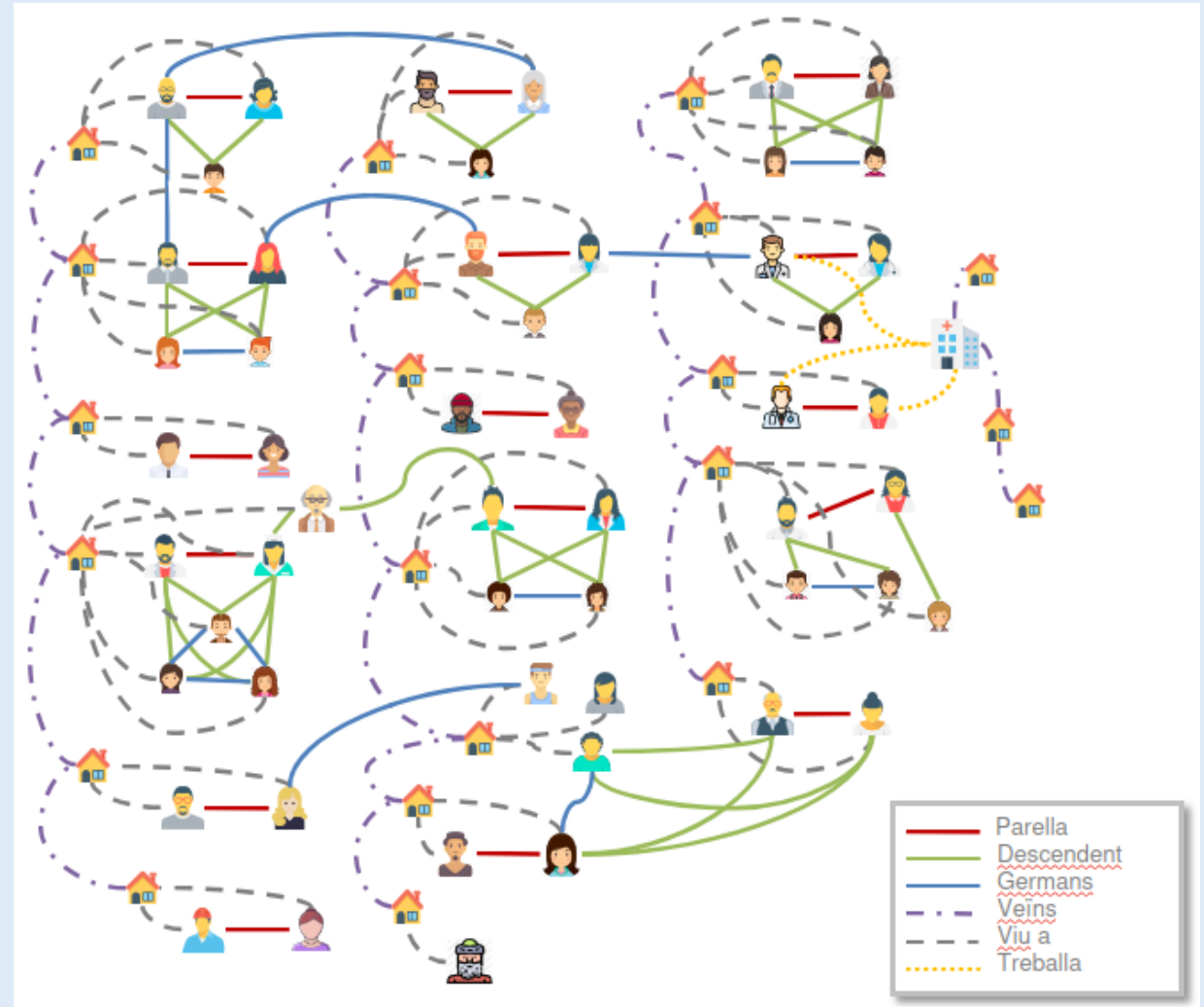
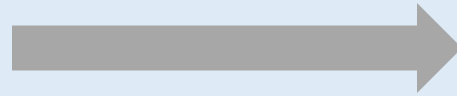
Photographies



Xarxes: A digital twin for our history

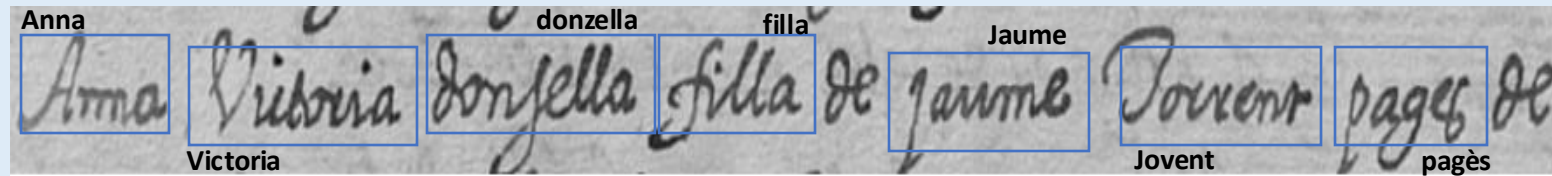
Local census

NÚMERO		Calle, plaza, paseo, caserio, cortijado, etc.	NOMBRES Y APELLIDOS	Fecha del nacimiento	Parentesco o razón de convivencia con el cabeza de familia
De orden	De las hojas				
165	3	C/ de Sanalle 205	García Parella Puigventós Bones Juda Juli Gos Eugenia Parella Arcega Paulina Juli Gavarró	1872-10-21 1873-1-22 1874-7-29 1875-5-24	hija hija esposa hija
166	1	id.	Hora Xarfe Fels	1877-2-27	esposa
167	3	id.	Juan Baldo Xarfe Germán Campsuh Borrell Andreu Baldo Campsuh	1877-4-26 1878-12-26 1878-8-23	esposa hijo hijo
168	3	id.	Manuel Rosell Rovira Jana Mica Rovira Rosell	1878-6-28 1878-6-28 1878-7-27	esposa hija esposa
169	1	id.	Bartolomé de Sigala	1879-7-26	esposa
170	3	id.	Francés Martí Orosa Carmela Martí Jorri Teresa Martí Orosa	1880-5-28 1880-6-28 1880-7-28	esposa esposa hija



Handwritten Text Recognition (HTR)

- The task of **automatically transcribe** handwritten fragments of texts



- What should you provide your local engineer with?

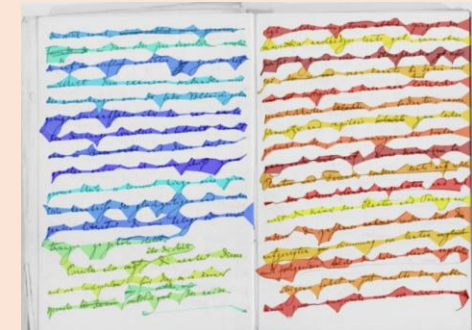
Document images



Corresponding *literal* text (*.txt)

```
Open [icon]
1 csg562-003-01 v-e-r-s-a-t-i-o|p-e-r|o-m-n-e-m|h-
  veluti|BREAK
2 csg562-003-02 d-i-d-u-m|i-g-n-e-i|s-o-l-i-s|i-u-
  BREAK
3 csg562-003-03 r-et|a-m-o-r-e-m-pt|s-i-c-u-t-i|d-
4 csg562-003-04 l-i-b-e-r|g-e-s-t-o-r-u-m|i-p-s-i-
  BREAK
5 csg562-003-05 m-a|v-i-r-t-u-t-u-m|e-i-u-s|a-t-t-
6 csg562-003-06 r-e-l-i-g-i-o-s-i-pt|s-e-c-u-n-d-u-
7 csg562-003-07 t-i-s|f-l-o-r-e|n-i-t-e-n-t-e-m|c-
  BREAK
8 csg562-003-08 g-i-s-t-e-r-i-o|c-o-m-m-e-n-d-a-v-
9 csg562-003-09 d-i-s-c-i-p-l-i-n-a-pt|et|i-n-t-e-
  sectores|BREAK
10 csg562-003-10 d-i-e-n-t-i-a-e|et|a-r-c-t-i-o-r-i-
11 csg562-003-11 b-o-n-a-e|i-n-d-o-l-i-s|v-i-r-pt|c-
12 csg562-003-12 c-r-e-v-i-t|a-u-g-m-e-n-t-o-pt|S-u-
13 csg562-003-13 t-a-n-t-o|s-t-u-d-i-o|i-d-i-v-i-n-a-
14 csg562-004-01 n-o-v-a|p-r-o-f-e-r-r-el|p-o-s-s-et
```

(optional) Line / Word Level Annotations.



Kurar B. et.al. 2020

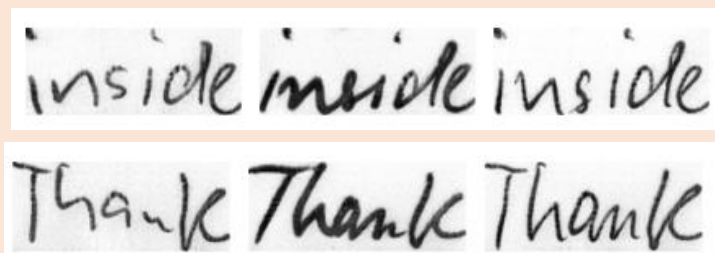
Handwritten Text Recognition (HTR)

- The task of **automatically transcribe** handwritten fragments of texts



- Challenges of HTR:

Writer variance: We can't rely on absolute patterns



Kang L. et.al. 2020

Historical variance: Dictionaries are not good

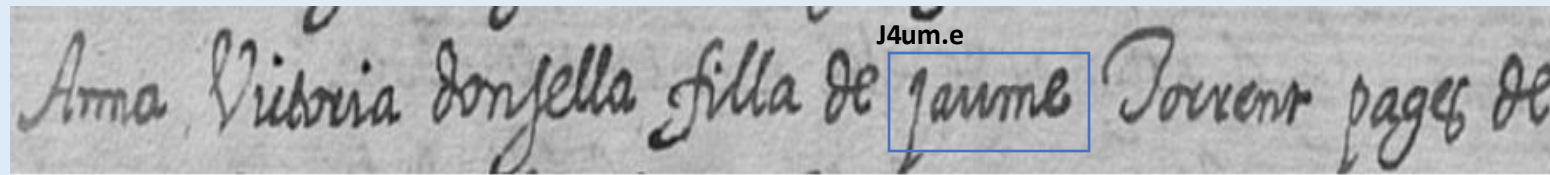


Inconsistent transcriptions: Due to noise and damage in the historical documents.



Word Spotting

- The task of **searching for specific words** in a database, overcoming inexactitude of HTR



- What should you provide your local engineer with?

Query: great							
LSDE [8]	<i>great</i> ED = 0	<i>great</i> ED = 0	<i>greater</i> ED = 2	<i>greatly</i> ED = 2	<i>greatly</i> ED = 2	<i>least</i> ED = 3	<i>gene</i> ED = 3
S-MAP	<i>great</i> ED = 0	<i>great</i> ED = 0	<i>what</i> ED = 3	<i>What</i> ED = 3	<i>what</i> ED = 3	<i>what</i> ED = 3	<i>greatly</i> ED = 2
S-NDCG	<i>great</i> ED = 0	<i>great</i> ED = 0	<i>get</i> ED = 2	<i>Bread;</i> ED = 2	<i>meet</i> ED = 3	<i>least</i> ED = 3	<i>What</i> ED = 3
Join	<i>great</i> ED = 0	<i>great</i> ED = 0	<i>get</i> ED = 2	<i>Bread;</i> ED = 2	<i>least</i> ED = 3	<i>greater</i> ED = 2	<i>meet</i> ED = 3
Query: recruits							
LSDE [8]	<i>Recruits</i> ED = 0	<i>Recruits</i> ED = 0	<i>Recru</i> ED = 3	<i>recruit</i> ED = 1	<i>Review;</i> ED = 5	<i>recruiting</i> ED = 3	<i>circum</i> ED = 7
S-MAP	<i>Recruits</i> ED = 0	<i>Recruits</i> ED = 0	<i>recruiting</i> ED = 3	<i>recruit</i> ED = 1	<i>Returns</i> ED = 4	<i>remains</i> ED = 4	<i>readings</i> ED = 6
S-NDCG	<i>Recruits</i> ED = 0	<i>Recruits</i> ED = 0	<i>recruit</i> ED = 1	<i>recruiting</i> ED = 3	<i>receipt</i> ED = 4	<i>necessaries</i> ED = 7	<i>readings</i> ED = 6
Join	<i>Recruits</i> ED = 0	<i>Recruits</i> ED = 0	<i>recruit</i> ED = 1	<i>recruiting</i> ED = 3	<i>receipt</i> ED = 4	<i>readings</i> ED = 6	<i>Rendezvous</i> ED = 7

Document images



The position of important words

```

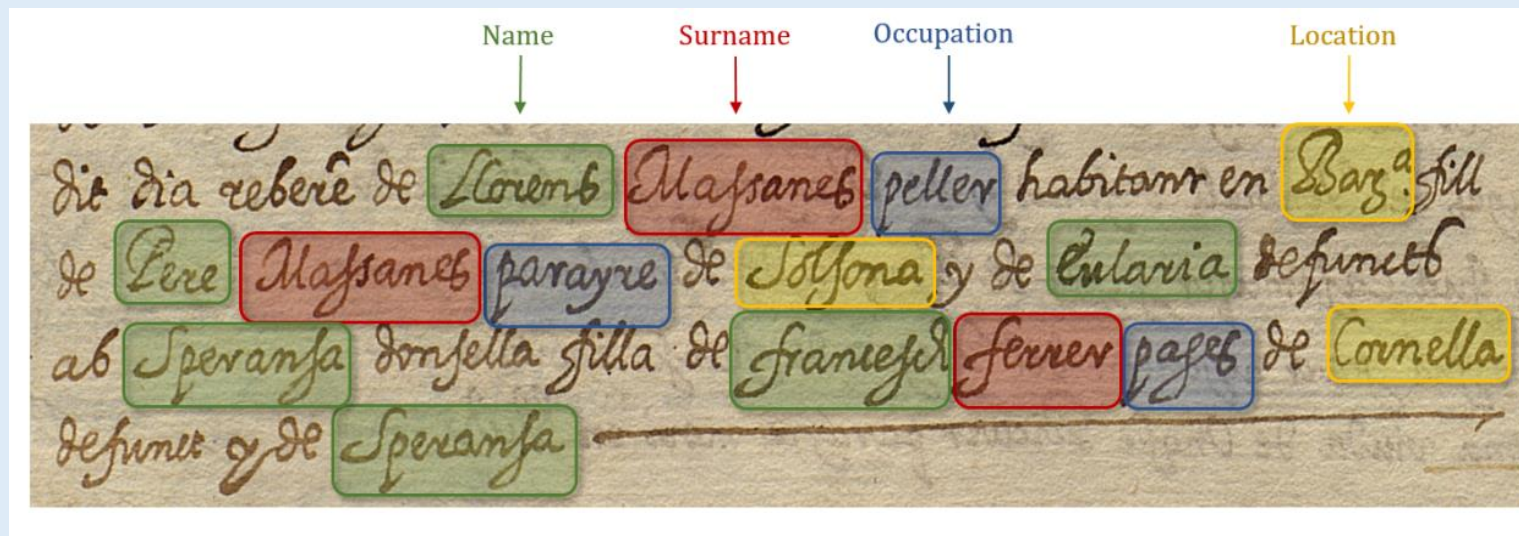
{
  "text": "Piedra",
  "items": [
    {
      "text": "Piedra",
      "points": [
        [
          1805.0,
          649.0
        ],
        [
          1820.0,
          744.0
        ],
        [
          1848.0,
          739.578947368421
        ],
        [
          1833.0,
          644.578947368421
        ]
      ]
    }
  ]
}

```

Riba P. et.al 2021

Named Entity Recognition

- Once one can extract the literal transcription of the text, we need to structure the data.
- Named Entity Recognition is the task of **structuring textual data by functionality** of the contained named entities.



Carbonell, M et.al. 2018

Named Entity Recognition

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- What should you provide your local engineer with?

HTR

+

Word-Level Categories: We need to assign a named entity type for each recognized word

habitat	en	Bara	ab	Elisabeth	Juana	donsella	filla	de	Bernat	Prats
other	other	location	other	name	name	state	other	other	name	surname
none	none	husband	none	wife	wife	wife	none	none	wife's father	wife's father

Named Entity Recognition

- Once one can extract the literal transcription of the text, we need to structure the data.
- **Challenges of Named Entity Recognition**

Polysemics:

FERRER

|| 1. *adj.* (f. -ERA) Pertanyent al ferro; propi del ferro, o que en produeix.

|| 2. *m.* Home que fabrica objectes de ferro o que treballa el ferro; cast. *herrero*. Seria semblant cosa del ferrer qui feés la espaa per auciere altre e si metex ensems, Lluïll Cont. 340, 29. Lo ferrer no pogra fer lo coltell sens ferre, Lluïll Felix, pt. i, c. 6. Los ferrers no feyen als mas ancores, Muntaner Cròn., c. 44. Te'n pren axí com lo ferrer, que si no us crema la roba dóna-us enuig ab lo fum, Tirant, c. 343. Lo acostumat al foch ferrer de Júpiter e fabricantor dels vibrants lamps, Fiameta 32. **Ferrer de gros**: el qui fa balcons, arades i altres peces grosses i no de precisió. **Ferrer de tall**: el qui fa coltells i altres eines tallants. **Ferrer negre**: el qui fa rodes i eixos de carro (Cerdanya). **Ferrer d'encant**: el qui adoba i ven ferros vells.

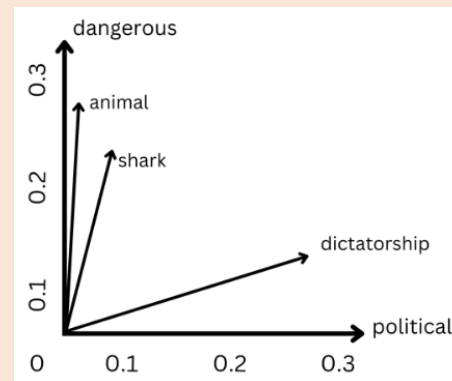
Anar a ferrer: anar a l'obrador del ferrer a portar-hi eines a adobar (Empordà).

|| 3. *m.* Ocell de la família dels pàrids, espècie *Parus major* (Men.); cast. *carbonero*. (V. [FERRERET](#)).

Ferrer: ant. nom d'home, i avui cognom molt estès per tot el territori de la llengua, tant continental com insular. Del seu ús antic com a nom de fonts, tenim documents com aquests: Signum Ferrer de Caseles, doc. a. 1162 (Priv. Ordin. Valls Pir. 390); En Ferrer Dez Carrof, doc. a. 1283 (RLR, iv, 59); Lo segon fonch don Ferrer, Comalada Pierres Prov. 35. En un document de l'any 1303 apareix el nom d'home *Ferrer*, i el de *feraria* (=Ferrer) aplicat a la seva dona, i el de *fereromus* (=Ferreró) donat a llur fill (arx. parr. de Sta. Col. de Q.). El llinatge *Ferrer* apareix escrit sovint *Farré* en català oriental per la confusió de la *a* i la *e* àtones, i en català occidental per la tendència que té aquest dialecte a convertir en *a* la *e* pretònica.

<https://dcvb.iec.cat/>

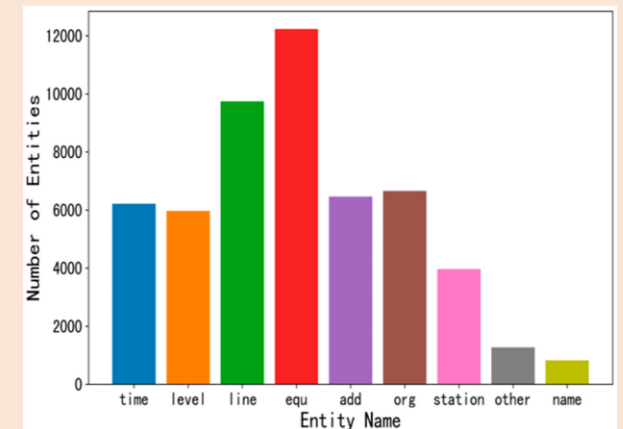
Frequentist approach



The **distributional semantics hypothesis** does not hold for named entities!

One should then **rely on grammar and structures!**

Unbalance



Chen, Y. et.al. 2023

Entity Linking

- The task of **linking functional relationships** of the entities in a document

NEW COMPETITIVE PRODUCTS IT&A

REPORTED BY: BOBBY MILLS, REGIONAL SALES MGR., INDIANAPOLIS, IN

DATE: 9/10/90 TIME: _____

SOURCE OF INFORMATION: HALL RODCAP, NOBLESVILLE, IN

MANUFACTURER: S & M

BRAND NAME: VICEROY KING BOX AND VICEROY LIGHTS KING BOX

TYPE OF PRODUCT: _____

SIZE OR SIZES: _____

LIST PRICE: _____

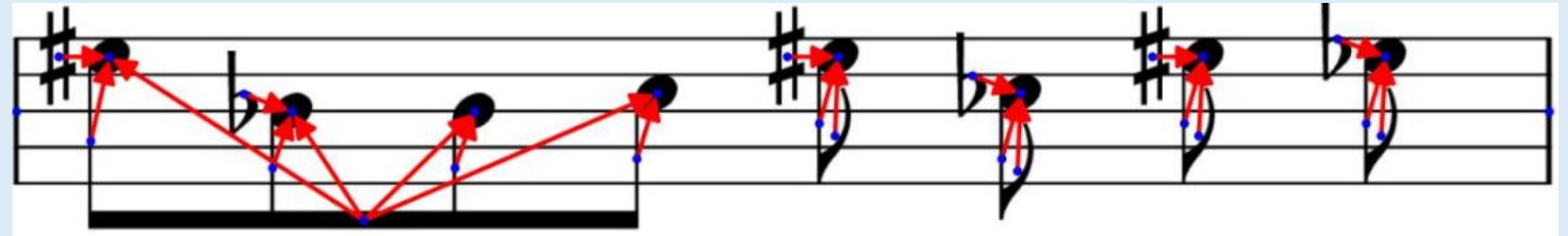
EXTENT OF DISTRIBUTION: _____

OTHER INFORMATION: SEE ATTACHED INFORMATION SHEET

cc:

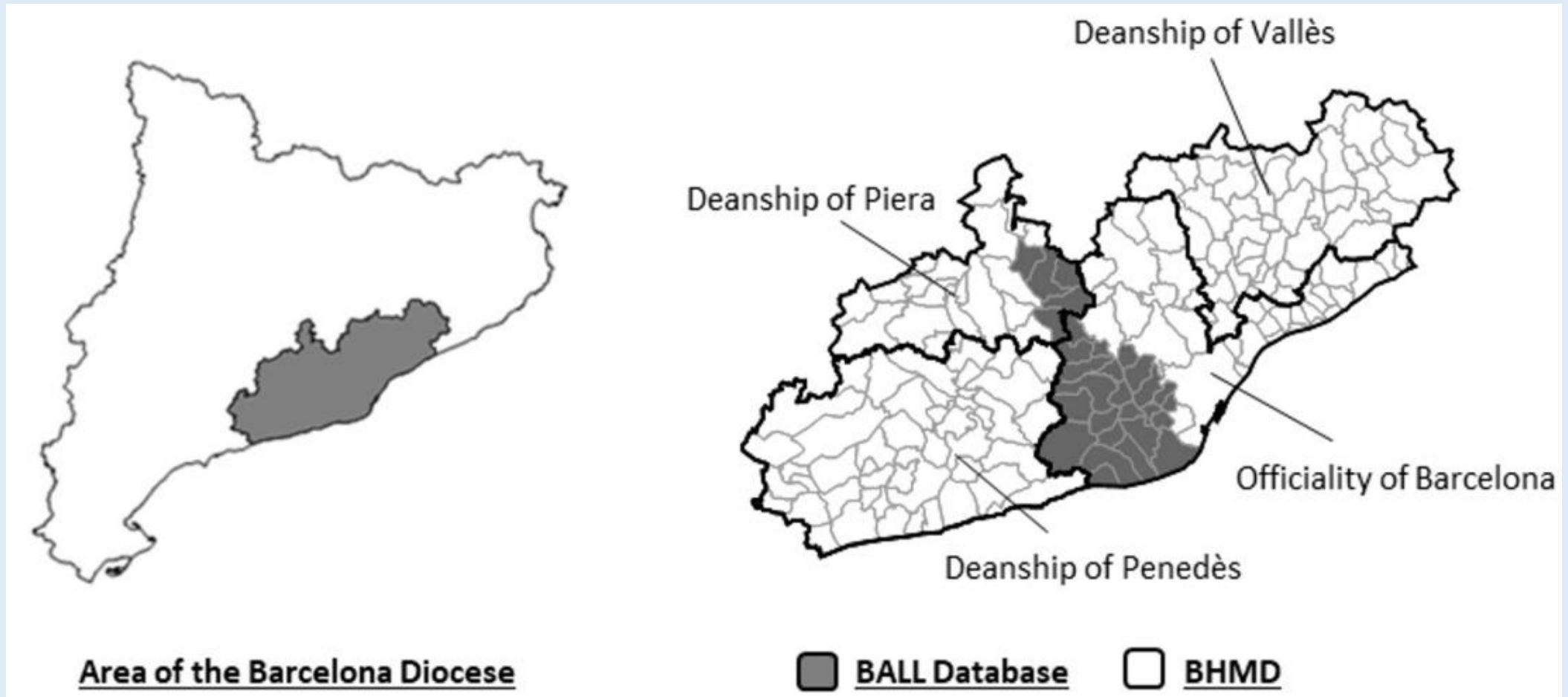
A. H. Tisch	G. Telford	J. J. Tesuli
R. H. Orcutt	F. J. Schultz	L. H. Kersh
M. A. Peterson	A. W. Spears	J. R. Slater
T. H. Mac	N. P. Ruffalo	
E. Gordon	T. L. Achey	S. T. Jones
J. P. Mastandrea	P. J. McCann	R. S. Goldbrenner
	A. J. Giacolo	E. R. Harrow

82897252



Carbonell, M. et.al. 2020
Baró, A. et.al. 2022

Record Linkage: The BALL Database



Pujadas-Mora, Joana Maria, et al. 2020

Record Linkage: The BALL Database

Maria, 1906, lives in N119

PADRÓN LABITANTES Folio 16.

N.º de Hoja	NOMBRE Y APELLIDOS	Fecha del nacimiento	Naturalidad	Estado	Profesión	Residencia	Tiempo de residencia en esta localidad		Clasificación como habitante	Calle ó sitio en que habita	Edad	Contribución	Jefe de familia	OBSERVACIONES
							Hes	Mes						
119	Maria Garcia	1875	...	...	...	...	...	...	...	...	...	...	...	...
120	Maria Garcia	1875	...	...	...	...	...	...	...	...	...	...	...	...
121	Maria Garcia	1875	...	...	...	...	...	...	...	...	...	...	...	...
122	Maria Garcia	1875	...	...	...	...	...	...	...	...	...	...	...	...
123	Maria Garcia	1875	...	...	...	...	...	...	...	...	...	...	...	...
124	Maria Garcia	1875	...	...	...	...	...	...	...	...	...	...	...	...
125	Maria Garcia	1875	...	...	...	...	...	...	...	...	...	...	...	...
126	Maria Garcia	1875	...	...	...	...	...	...	...	...	...	...	...	...
127	Maria Garcia	1875	...	...	...	...	...	...	...	...	...	...	...	...
128	Maria Garcia	1875	...	...	...	...	...	...	...	...	...	...	...	...
129	Maria Garcia	1875	...	...	...	...	...	...	...	...	...	...	...	...
130	Maria Garcia	1875	...	...	...	...	...	...	...	...	...	...	...	...

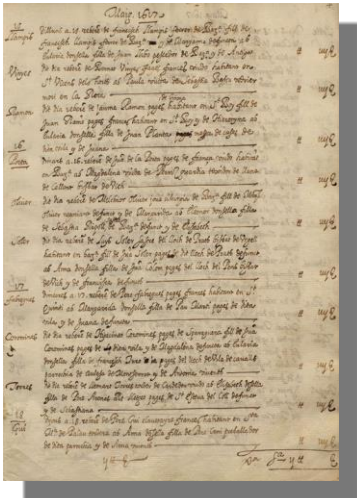
???

Maria, 1925, lives in N14

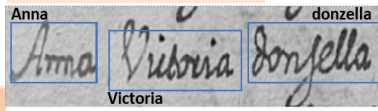
PADRÓN LABITANTES Folio 21.

N.º de Hoja	NOMBRE Y APELLIDOS	Fecha del nacimiento	Naturalidad	Estado	Profesión	Residencia	Tiempo de residencia en esta localidad		Clasificación como habitante	Calle ó sitio en que habita	Edad	Contribución	Jefe de familia	OBSERVACIONES
							Hes	Mes						
123	Maria Garcia	1875	...	...	...	...	...	...	...	...	...	...	...	...
124	Maria Garcia	1875	...	...	...	...	...	...	...	...	...	...	...	...
125	Maria Garcia	1875	...	...	...	...	...	...	...	...	...	...	...	...
126	Maria Garcia	1875	...	...	...	...	...	...	...	...	...	...	...	...
127	Maria Garcia	1875	...	...	...	...	...	...	...	...	...	...	...	...
128	Maria Garcia	1875	...	...	...	...	...	...	...	...	...	...	...	...
129	Maria Garcia	1875	...	...	...	...	...	...	...	...	...	...	...	...
130	Maria Garcia	1875	...	...	...	...	...	...	...	...	...	...	...	...

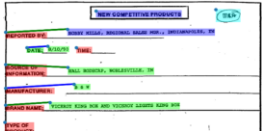
Record Linkage: The BALL Database



Transcribe via HTR

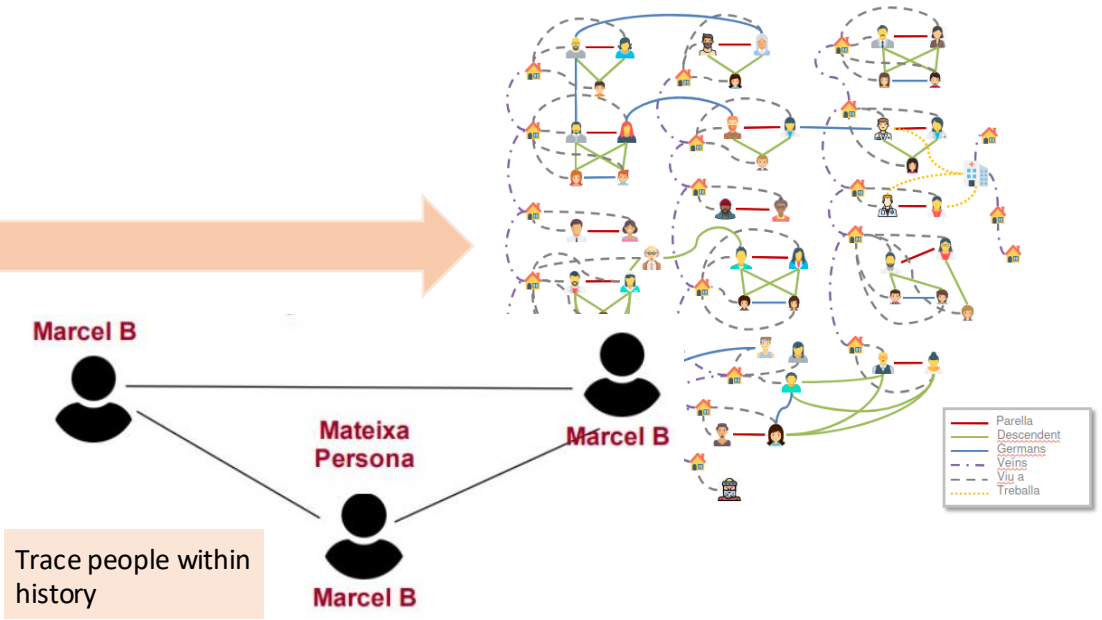


Link entities by relation



Detect functional categories

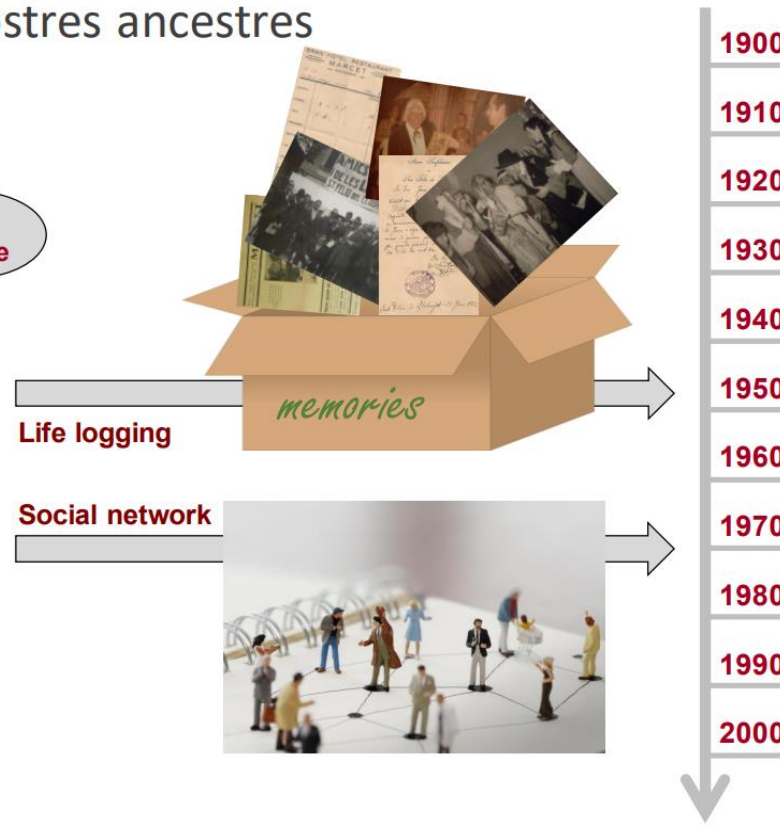
Enjoy your historical digital twin



Trace people within history

Record Linkage: The BALL Database

El llegat històric dels nostres ancestres



<http://dag.cvc.uab.es/xarxes/>


Record Linkage: The BALL Database

Where?

Xarxa de padrons històrics

Benvingudes i benvinguts a la xarxa de padrons històrics. Aquesta col·lecció engloba documents de padrons d'habitants des de 1828 del fons d'Ajuntaments del Baix Llobregat que es conserven a l'Arxiu Comarcal. Amb aquest aplicatiu podreu accedir a la informació de les persones que vivien en aquestes poblacions en un moment donat. L'Aplicatiu us permetrà fer la cerca mitjançant el nom i/o cognoms de las persones així com del carrer on vivien o del seu ofici. En aquest cercador no només tindreu accés a la informació textual sinó que hi podreu accedir a la versió digital del full del padró corresponent. Per a qualsevol dubte o suggeriment contacteu-nos a aines@cvc.uab.es

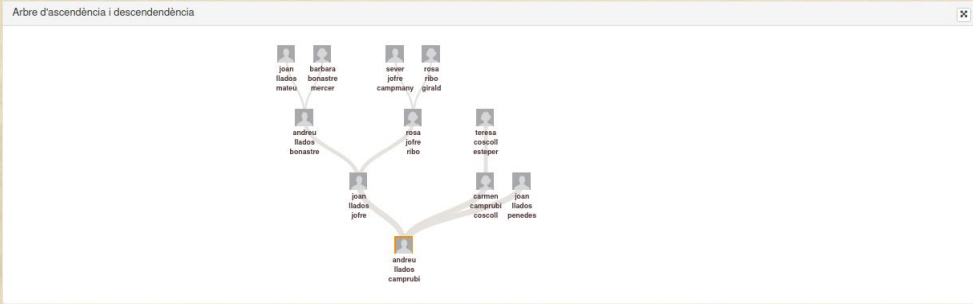
Map Satellite



Cercador

Nom Cognom Població

Arbre d'ascendència i descendència



```
graph TD; A[Andreu Ildico Campubert] --- B[Joan Ildico Jofre]; A --- C[Joan Ildico Campubert]; B --- D[Joan Ildico Campubert]; B --- E[Joan Ildico Campubert]; C --- F[Joan Ildico Campubert]; C --- G[Joan Ildico Campubert]; D --- H[Joan Ildico Campubert]; D --- I[Joan Ildico Campubert]; E --- J[Joan Ildico Campubert]; E --- K[Joan Ildico Campubert]; F --- L[Joan Ildico Campubert]; F --- M[Joan Ildico Campubert]; G --- N[Joan Ildico Campubert]; G --- O[Joan Ildico Campubert]; H --- P[Joan Ildico Campubert]; H --- Q[Joan Ildico Campubert]; I --- R[Joan Ildico Campubert]; I --- S[Joan Ildico Campubert]; J --- T[Joan Ildico Campubert]; J --- U[Joan Ildico Campubert]; K --- V[Joan Ildico Campubert]; K --- W[Joan Ildico Campubert]; L --- X[Joan Ildico Campubert]; L --- Y[Joan Ildico Campubert]; M --- Z[Joan Ildico Campubert]; M --- AA[Joan Ildico Campubert]; N --- AB[Joan Ildico Campubert]; N --- AC[Joan Ildico Campubert]; O --- AD[Joan Ildico Campubert]; O --- AE[Joan Ildico Campubert]; P --- AF[Joan Ildico Campubert]; P --- AG[Joan Ildico Campubert]; Q --- AH[Joan Ildico Campubert]; Q --- AI[Joan Ildico Campubert]; R --- AJ[Joan Ildico Campubert]; R --- AK[Joan Ildico Campubert]; S --- AL[Joan Ildico Campubert]; S --- AM[Joan Ildico Campubert]; T --- AN[Joan Ildico Campubert]; T --- AO[Joan Ildico Campubert]; U --- AP[Joan Ildico Campubert]; U --- AQ[Joan Ildico Campubert]; V --- AR[Joan Ildico Campubert]; V --- AS[Joan Ildico Campubert]; W --- AT[Joan Ildico Campubert]; W --- AU[Joan Ildico Campubert]; X --- AV[Joan Ildico Campubert]; X --- AW[Joan Ildico Campubert]; Y --- AX[Joan Ildico Campubert]; Y --- AY[Joan Ildico Campubert]; Z --- AZ[Joan Ildico Campubert]; Z --- BA[Joan Ildico Campubert]; AA --- BB[Joan Ildico Campubert]; AA --- BC[Joan Ildico Campubert]; AB --- BD[Joan Ildico Campubert]; AB --- BE[Joan Ildico Campubert]; AC --- BF[Joan Ildico Campubert]; AC --- BG[Joan Ildico Campubert]; AD --- BH[Joan Ildico Campubert]; AD --- BI[Joan Ildico Campubert]; AE --- BJ[Joan Ildico Campubert]; AE --- BK[Joan Ildico Campubert]; AF --- BL[Joan Ildico Campubert]; AF --- BM[Joan Ildico Campubert]; AG --- BN[Joan Ildico Campubert]; AG --- BO[Joan Ildico Campubert]; AH --- BP[Joan Ildico Campubert]; AH --- BQ[Joan Ildico Campubert]; AI --- BR[Joan Ildico Campubert]; AI --- BS[Joan Ildico Campubert]; AJ --- BT[Joan Ildico Campubert]; AJ --- BU[Joan Ildico Campubert]; AK --- BV[Joan Ildico Campubert]; AK --- BW[Joan Ildico Campubert]; AL --- BX[Joan Ildico Campubert]; AL --- BY[Joan Ildico Campubert]; AM --- BZ[Joan Ildico Campubert]; AM --- CA[Joan Ildico Campubert]; AN --- CB[Joan Ildico Campubert]; AN --- CC[Joan Ildico Campubert]; AO --- CD[Joan Ildico Campubert]; AO --- CE[Joan Ildico Campubert]; AP --- CF[Joan Ildico Campubert]; AP --- CG[Joan Ildico Campubert]; AQ --- CH[Joan Ildico Campubert]; AQ --- CI[Joan Ildico Campubert]; AR --- CJ[Joan Ildico Campubert]; AR --- CK[Joan Ildico Campubert]; AS --- CL[Joan Ildico Campubert]; AS --- CM[Joan Ildico Campubert]; AT --- CN[Joan Ildico Campubert]; AT --- CO[Joan Ildico Campubert]; 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```


Avui complien anys... (39)

- gabriel galopa estape Any naix.: 1920 Sant Feliu de Llobregat
- joaquim pi burull Any naix.: 1935 Torrelles de Llobregat
- maria ramosleda casals Any naix.: 1886 Sant Feliu de Llobregat
- juan casas deu Any naix.: 1898 Torrelles de Llobregat
- encarnacion sancho casanolas Any naix.: 1882 Santa Coloma de Cervello
- rosa campama capdevila Any naix.: 1865 Torrelles de Llobregat

Persones destacades (3)

- pedro dot martinez Any naix.: 1895 Sant Feliu de Llobregat
- juana raspall juanola Any naix.: 1913 Sant Feliu de Llobregat
- juan badia tarres Any naix.: 1870 Sant Feliu de Llobregat

Fotografies



- 1930: A man in a suit reading a newspaper.
- 1900: A group of people sitting outdoors.
- 1918: A group of people with a horse-drawn cart.
- 2006: A woman in a patterned shirt.
- 1925: A group of people sitting outdoors.

reCERCaixa ACCP

Record Linkage: The BALL Database

Xarxa de padrons històrics

Benvingudes i benvinguts a la xarxa de padrons històrics. Aquesta col·lecció engloba documents de padrons d'habitants des de 1828 del fons d'Ajuntaments del Baix Llobregat que es conserven a l'Arxiu Comarcal. Amb aquest aplicatiu podreu accedir a la informació de les persones que vivien en aquestes poblacions en un moment donat. L'Aplicatiu us permetrà fer la cerca mitjançant el nom i/o cognoms de las persones així com del carrer on vivien o del seu ofici. En aquest cercador no només tindreu accés a la informació textual sinó que hi podreu accedir a la versió digital del full del padró corresponent. Per a qualsevol dubte o suggeriment contacteu-nos a aines@cvc.uab.es



Genealogy

Avui complien anys... (39)

- gabriel galopa estape
Any naix.: 1920
Sant Feliu de Llobregat
- joaquim pi burull
Any naix.: 1935
Torrelles de Llobregat
- maria ramosleda casals
Any naix.: 1886
Sant Feliu de Llobregat

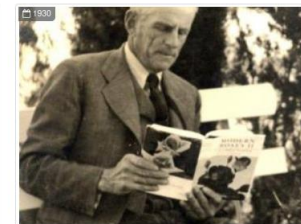
- juan casas deu
Any naix.: 1898
Torrelles de Llobregat
- encarnacion sancho casanolas
Any naix.: 1882
Santa Coloma de Cervello
- rosa campans capdevila
Any naix.: 1865
Torrelles de Llobregat

Persones destacades (3)

- pedro dot martinez
Any naix.: 1895
Sant Feliu de Llobregat
- juana raspall juanola
Any naix.: 1913
Sant Feliu de Llobregat

- juan badia tarres
Any naix.: 1870
Sant Feliu de Llobregat

Fotografies



Record Linkage: The BALL Database

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Cercador

Nom: Cognom: Població:

Arbre d'ascendència i descendència

Avui complien anys... (39)

	gabriel galopa estape Any naix.: 1920 Sant Feliu de Llobregat		juan casas deu Any naix.: 1898 Torrelles de Llobregat
	joaquim pi burull Any naix.: 1835 Torrelles de Llobregat		encarnacion sancho casanolas Any naix.: 1882 Santa Coloma de Cervello
	maria ramosleda casals Any naix.: 1886 Sant Feliu de Llobregat		rosa campans capdevila Any naix.: 1865 Torrelles de Llobregat

Persones destacades (3)

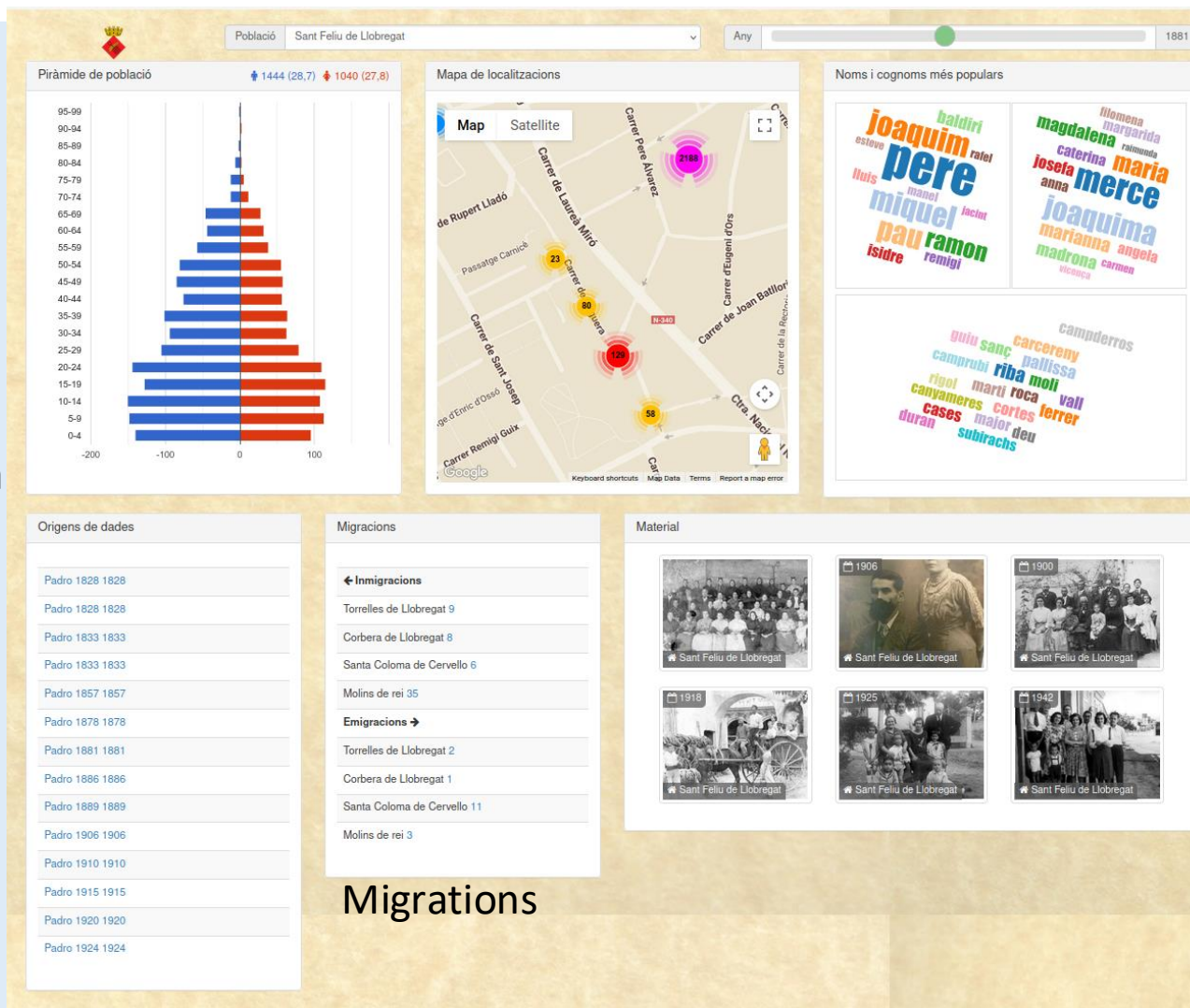
	pedro dot martinez Any naix.: 1895 Sant Feliu de Llobregat		juan badia tarres Any naix.: 1870 Sant Feliu de Llobregat
	juana raspall juanola Any naix.: 1913 Sant Feliu de Llobregat		

Fotografies

Memories

Record Linkage: The BALL Database

Population data



Aggregated insights

Record Linkage: The BALL Database

Filtres

Nom

Cognom

Vista Taula Mapa

Població

Any 1800 - 1970

Resultats

Nom	Cognoms	Data naix.	Població
joan	hernandez baños		Sant Feliu de Llobregat (1955)
isabel	pelaez baños		Sant Feliu de Llobregat (1955)
maria	fernandez baños	1851	Sant Feliu de Llobregat (1930)
maria	fernandez baños	1860	Sant Feliu de Llobregat (1930)
aquili	fernandez banus	1872	Sant Feliu de Llobregat (1930)
aquili	fernandez baños	30/6/1872	Sant Feliu de Llobregat (1945,1950,1955)
felip	baños ramirez	1892	Sant Feliu de Llobregat (1924)
concepcio	baños gaminal	20/10/1897	Sant Feliu de Llobregat (1950)
antoni	baños perello	14/5/1898	Sant Feliu de Llobregat (1924,1950)
pere	baños ramirez	14/8/1900	Sant Feliu de Llobregat (1955)
isabel	baños muñoz	25/9/1903	Sant Feliu de Llobregat (1955)
ferran	baños baños	1914	Sant Feliu de Llobregat (1936)
carne	pelaez baños	10/4/1923	Sant Feliu de Llobregat (1950,1955)
isabel	ramirez baños	27/2/1926	Sant Feliu de Llobregat (1950,1955)
joana	ramirez baños	20/7/1928	Sant Feliu de Llobregat (1955)
antoni	baños lorente	14/1/1930	Sant Feliu de Llobregat (1955)
elladia	pelaez baños	5/1/1931	Sant Feliu de Llobregat (1950)
maria	baños ramirez	26/1/1932	Sant Feliu de Llobregat (1950)
dolors	baños lorente	17/8/1934	Sant Feliu de Llobregat (1955)
joana	baños sánchez	20/5/1934	Sant Feliu de Llobregat (1950)
miquel	pelaez baños	23/3/1935	Sant Feliu de Llobregat (1950)
felip	baños sánchez	9/12/1936	Sant Feliu de Llobregat (1950)
josep	baños ramirez	25/7/1937	Sant Feliu de Llobregat (1950)
pere	baños lorente	1/8/1943	Sant Feliu de Llobregat (1955)
luis	crochet baños	18/6/1945	Sant Feliu de Llobregat (1955)

Filtres

Nom

Cognom

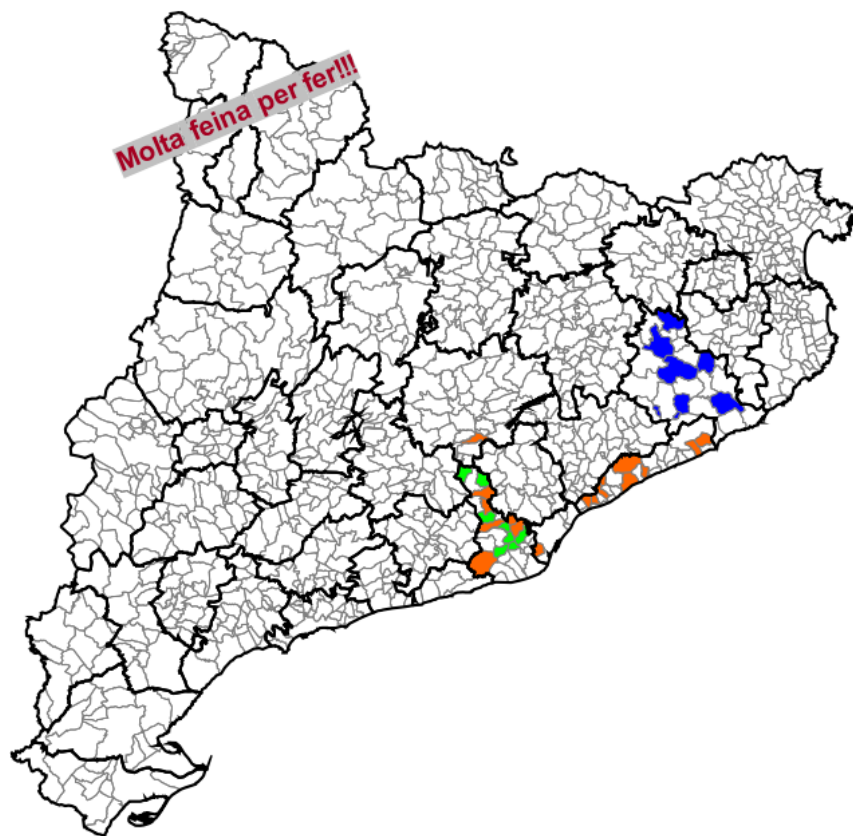
Vista Taula Mapa

Població

Any 1800 - 1970

Resultats

A lot of work to do!



BAIX LLOBREGAT

ABRERA
BEGUES
CASTELLVÍ DE ROSANES
COLLBATÓ
CORBERA DE LLOBREGAT
EL PAPIOL
MARTORELL
MOLINS DE REI
OLESA DE MONTSERRAT
PALLEJÀ
SANT FELIU DE LLOBREGAT
SANT VICENÇ DELS HORTS
SANTA COLOMA DE CERVELLÓ
TORRELLES DE LLOBREGAT

LA SELVA

AMER
BREDÀ
HOSTALRIC
MASSANES
OSOR
SANT MIQUEL DE CLADELLS
SANTA COLOMA DE FARNERS
VIDRERES
VILOBÍ D'ONYAR

MARESME

ALELLA
CALDES D'ESTRAC
MATARÓ
ORRIUS
PALAFOLLS
SANT VICENÇ DE MONTALT
SANTA SUSANNA
TEIÀ
VILASSAR DE DALT

BAGES

SANT VICENÇ DE CASTELLET

BARCELONÈS

HOSPITALET DE LLOBREGAT



Citizen science

Participació Ciutadana

Voluntaris ens ajuden a transcriure la documentació!



Sant Feliu de Llobregat



Collbató



Santa Coloma de Cervelló



Castellví de Rosanes



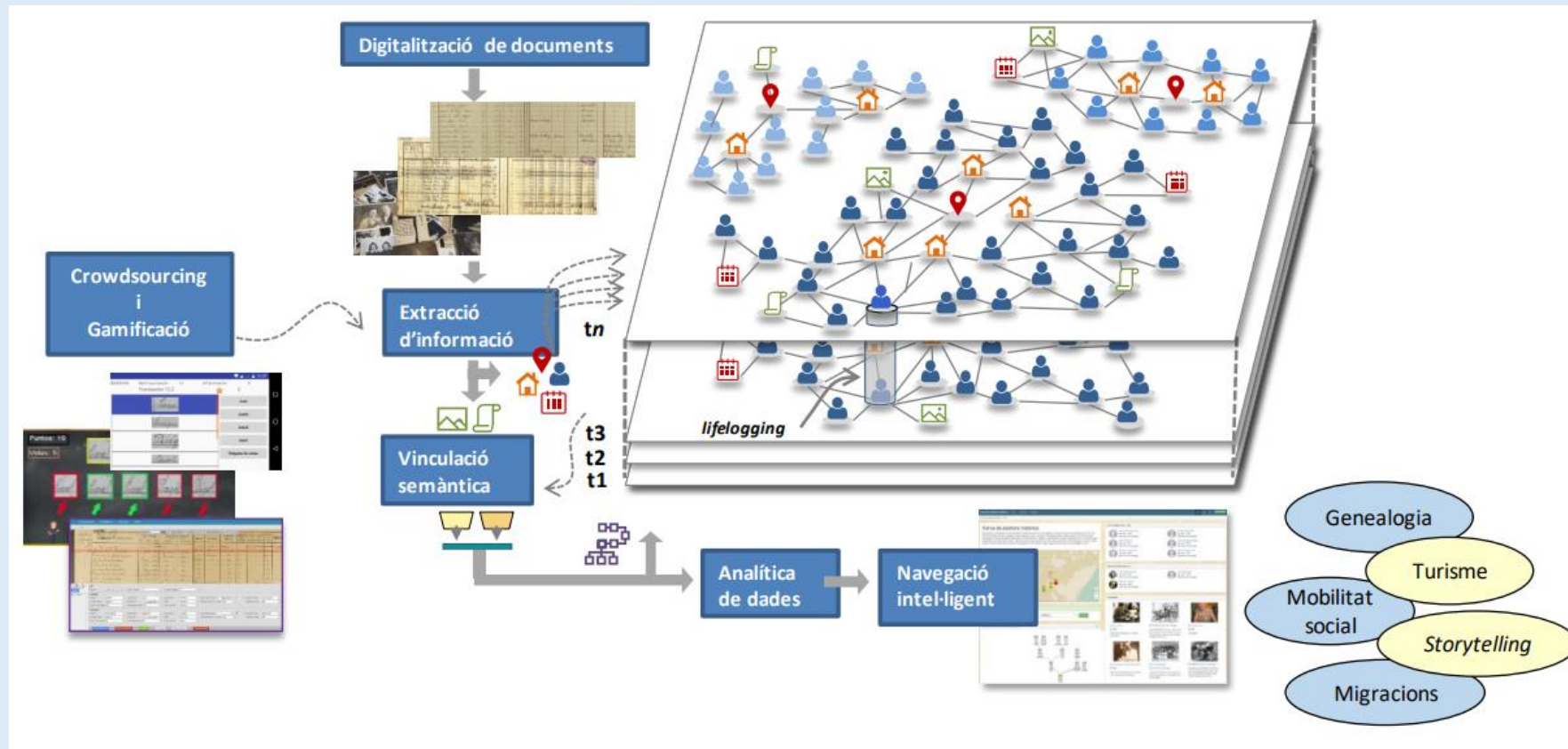
Molins de Rei



Corbera de Llobregat



Wrapping up



Thanks!