



# Framing situations in the Dutch Language

from structured data to text  
and back from text to structured data on situations

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<http://dutchframenet.nl>

eLexicography between Digital Humanities and Artificial Intelligence:  
Complexities in Data, Technologies, Communities  
9th July, Utrecht



# Language as data

- Empirical approach to language (science, education, technology)
  - Language use defines the problem space rather than theoretical models
- How to properly sample language use:
  - data biases, data dynamics, capture all variation and ambiguity, capture the context
- Annotation is an interpretation of language use —> annotated corpora
- Lexical resources and ontologies are structured abstractions (or generalisations) from these interpretations (annotations)
- This traditional process can be described as *text-to-data*
- *We propose a new method: data-to-text, which helps us to get from text-to-data*

# A text tells a story

A murder and conviction: *what, who, when and where*

- Jury **convicts** man in woman's death Saturday , 28 September 2013 01 : 43. A jury in eastern Oklahoma has **convicted** a Spiro man of two counts of first - degree **murder** in the 2012 **shooting death** of his **pregnant** girlfriend . The jury **deliberated** almost seven hours Thursday before **convicting** 27 - year - old Christopher Kenyon Simpson in the death of 20 - year - old Ka'loni Flynn , of Fort Smith , Ark . The jury **recommended** the maximum **sentence** of life in prison without parole.

# FrameNet

- Charles Fillmore, The case for case (1968):
  - abstract semantic roles (agent, patient, instrument) in addition to syntactic relations (subject, object)
- Baker, Collin F., Charles J. Fillmore, and John B. Lowe. "The berkeley framenet project." 1998.
  - situation dependent roles  
Perpetrator, Crime, Victim, Offense, Verdict, Sentence
  - words **evoked** a situational Frame with encyclopaedic knowledge



Do case roles define the predicate or does the predicate define the case roles?

# A text tells a story

## *what, who, where, when*

Subject

Verb

Object

Adjunct

Syntactic function

- **Jury** **convicts** **man** **in woman's death** Saturday ,  
28 September 2013 01 : 43.

# A text tells a story

## *what, who, where, when*

Agent	Predicate	Patient		Semantic roles
Subject	Verb	Object	Adjunct	Syntactic function

- **Jury** **convicts** **man** **in woman's death** Saturday ,  
28 September 2013 01 : 43.

# A text tells a story

## *what, who, where, when*

Judge	Verdict	Defendant	Charges	FrameNet situation
Agent	Predicate	Patient		Semantic roles
Subject	Verb	Object	Adjunct	Syntactic function

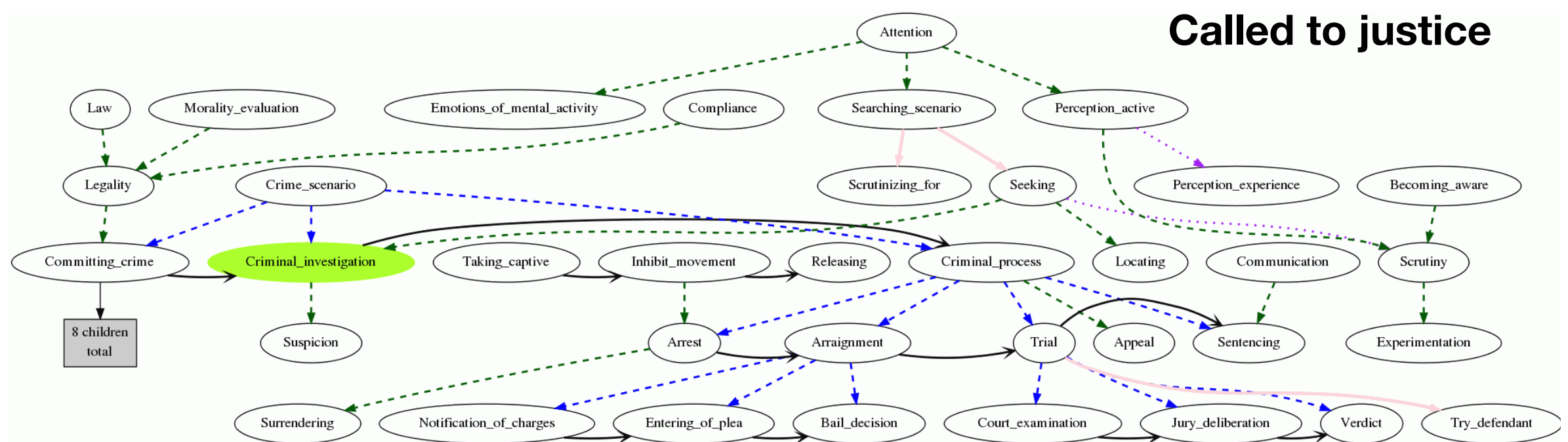
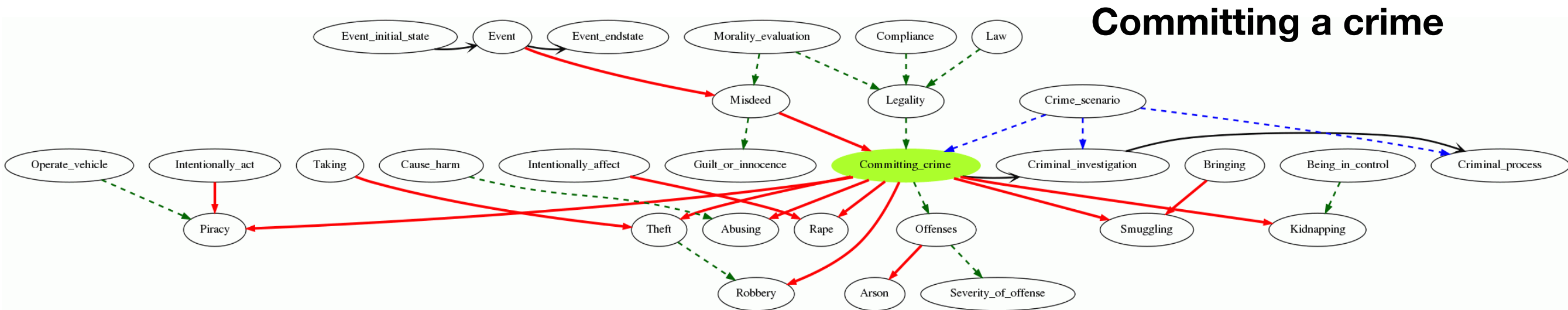
- **Jury** **convicts** **man** **in woman's death** Saturday ,  
28 September 2013 01 : 43.

# FrameNet data structure

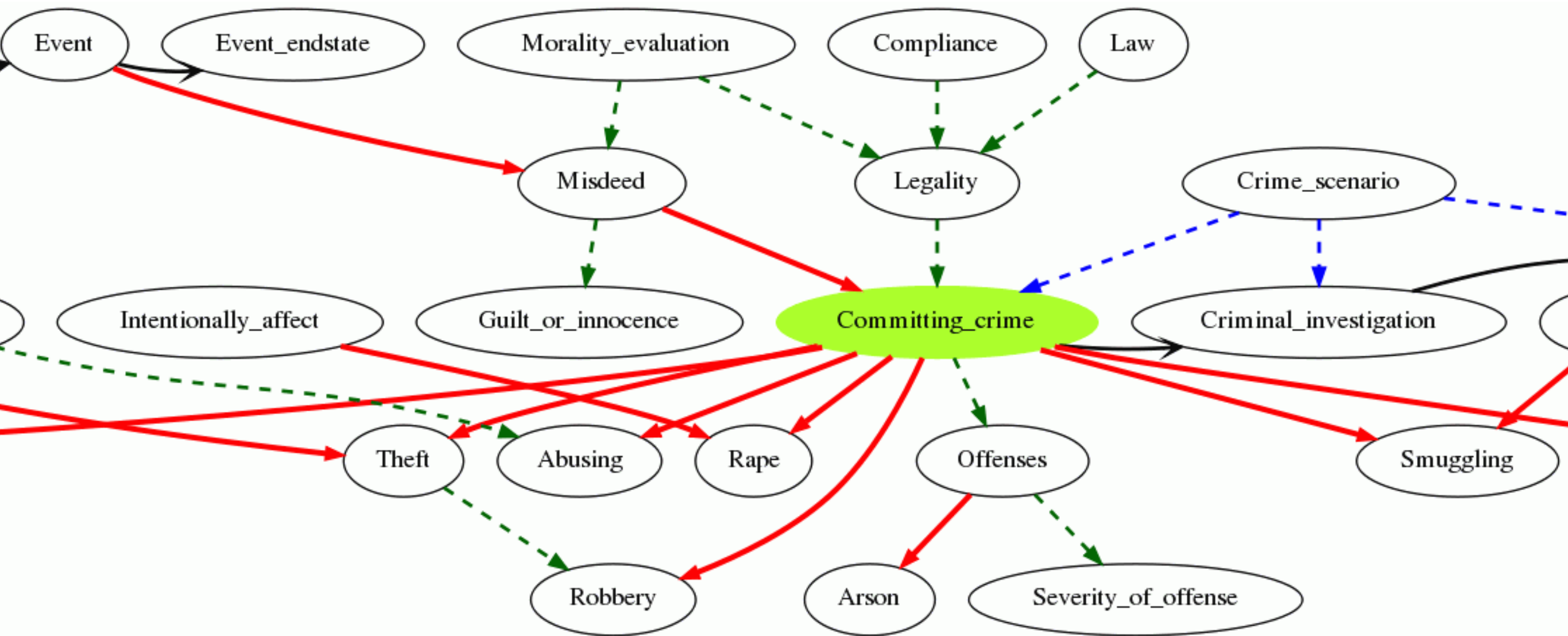
- **Frame:** **Verdict**
- **Frame Elements:** **Case, Charges, Defendant, Finding, Judge**
- **Lexical Units:** **verdict.n, ruling.n, pronounce.v, not guilty.a, guilty.a, finding.a, find.v, conviction.n, convict.v, clear.v, acquittal.n, acquit.v**
- **Frame:** **Offense**
- **Frame Elements:** **Perpetrator, Victim**
- **Lexical Units:** **arson.n, assault.n, battery.n, burglary.n, child abuse.n, conspiracy.n, copyright infringement.n, felony.n, fraud.n, hijacking.n, homicide.n, indecent assault.n, kidnapping.n, larceny.n, manslaughter.n, murder.n, negligence.n, possession.n, rape.n, robbery.n, sabotage.n, sexual assault.n, sexual harassment.n, statutory rape.n, theft.n, treason.n**
- **Frame:** **Arson** — inherits-from —> **Offense**
- **Lexical Units:** **arson.n, arsonist.n**
- **Definition:** A Perpetrator intentionally sets fire to his own or someone else's property, often in order to collect an insurance payment on this property.
- **Example:** Two men were charged with ARSON.



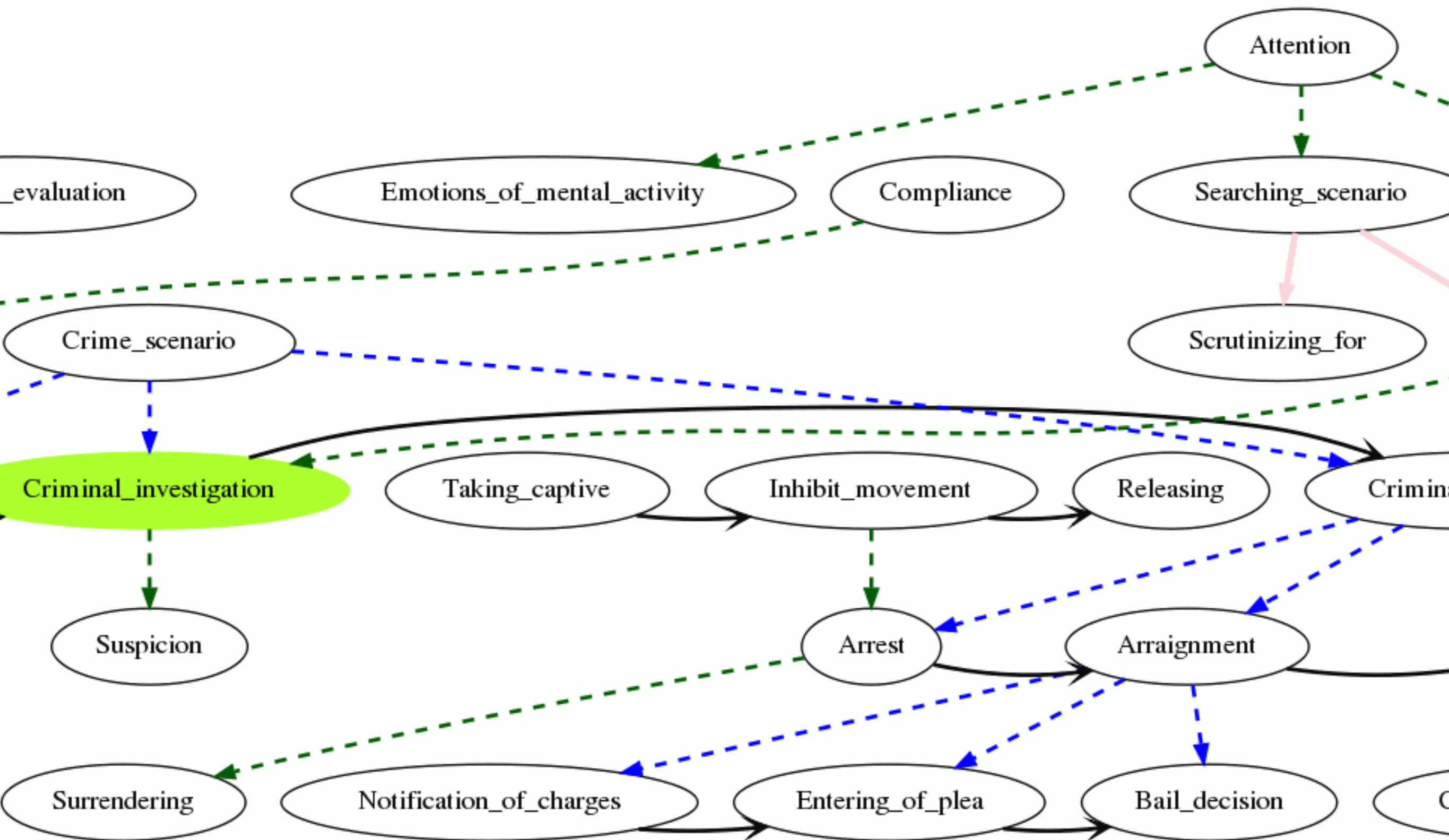
# Frame relations



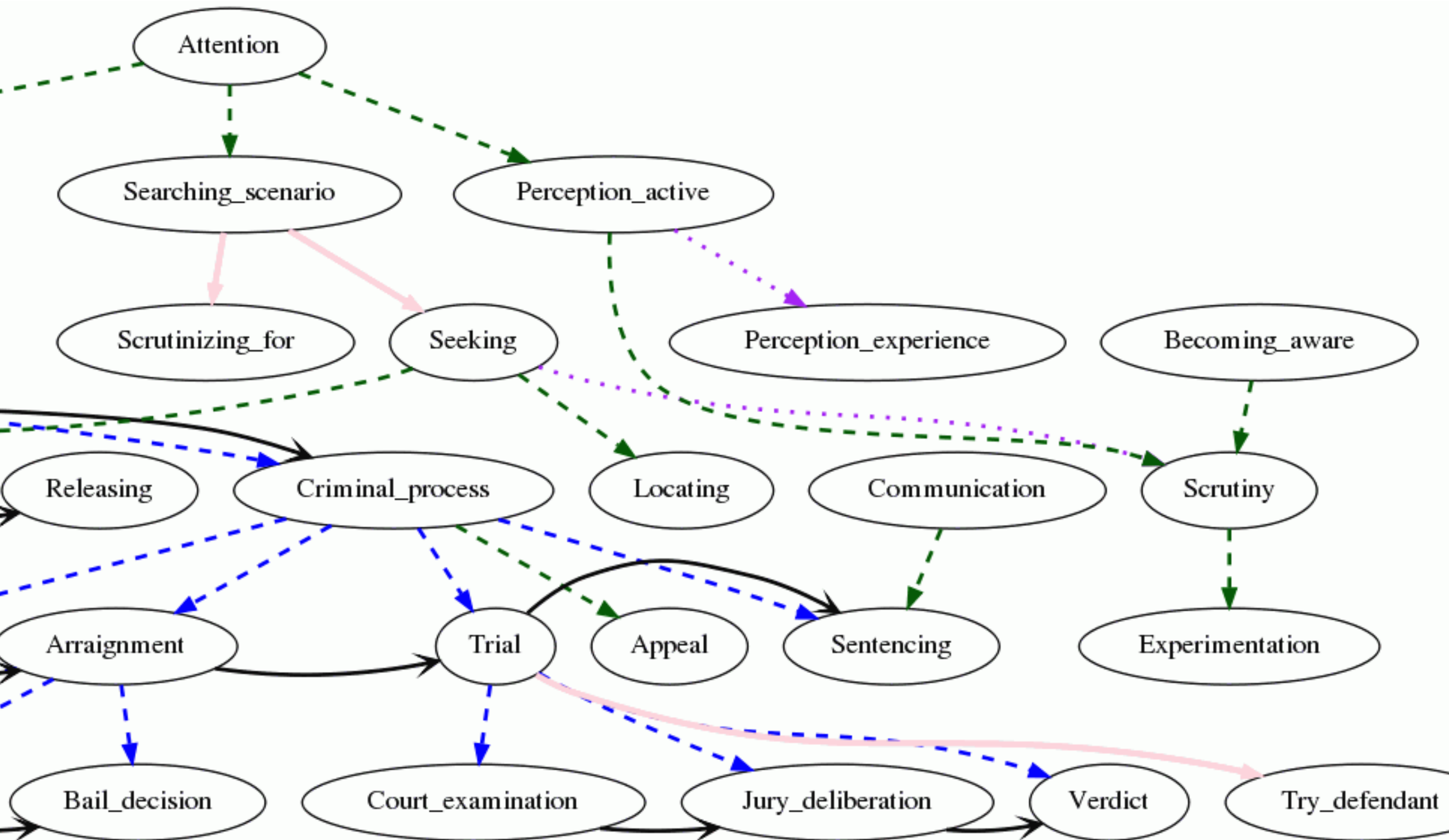
# Frame relations 1



# Frame relations 2



# Frame relations 3



# FrameNet Status

- 1,087 lexicalised frames
- 10,542 frame elements
- 13,640 lexical units in English
- 202,232 annotations in English texts
- FrameNet in other languages: French, Swedish, Japanese, Portuguese, Chinese, German, Spanish, Korean
- Global fragment project: <https://www.globalframenet.org>



# FrameNet annotation

The screenshot shows the FrameNet annotation interface. On the left is a list of frames and elements. The main area displays five sentences with words highlighted in different colors. Below the sentences is a table mapping these words to FrameNet frames and elements.

	Hook	tries	to	avenge	himself	on	Peter Pan	by	becoming	a	secon
FE	Agent				Injured		Victim		Reaction		
GF	Ext				Obj		Comp		Comp		
PT	NP				NP		PP		PPing		
Other											
Verb											

Figure 3.14: Annotation window with target LU *avenge.v*

- If you have a lexicon, you can lookup the frames and elements
- If NOT, you need to consider all possible relevant frames and elements in each sentence



# Some issues

- Coverage is low: frames, lexical units and annotations are unbalanced or even absent (30% frames, 10% lexical units, 50% of the words lack annotations in test data set, Palmer & Sporleder 2010)
- Frames do not form an ontology and lexical units **evoke** a frame: *arson* & *arsonist*
- Annotation is expensive, slow, incomplete and inconsistent:
  - 20 years to build the English FrameNet AND still not sufficient
  - annotations fit the frames instead of fitting the frames to the texts
- Sentence-based and not Document-based, Syntax-based and not SITUATION-BASED
- There is no FrameNet lexicon for Dutch (!!!)

# ANNOTATING DUTCH CORPUS WITH FRAMES AND ELEMENTS

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4 student assistants worked for 6 months (8 hours/week), supervised by a PostDoc

Nr. of files	116
Annotated verb tokens	5,250
Annotated verb types	1,335
Unique frames	671
Unique lexical units (lemma-frame combinations)*	4,755
Average nr. lexical units per frame	7

Agreement		Percentage
Strict frame agreement		47%
Lenient frame agreement	hierarchical relations	51%
	all relations	54%
Frame element agreement for same frame		79%

*\* double annotations, not resolving disagreements*



# FROM-DATA-TO-TEXT INSTEAD OF FROM-TEXT-TO-DATA

---

- Annotating situations in text is expensive, slow and difficult and there is no guarantee that the different text that describe the same situation will get the same annotation
- Our solution:
  - Start from a registration of situations
  - Find texts that report on the same situation
  - Annotate these texts together given the knowledge of the situation
- Vossen, Piek, Filip Ilievski, Marten Postma, and Roxane Segers. "Don't Annotate, but Validate: a Data-to-Text Method for Capturing Event Data." LREC-2018.

# FROM-TEXT-TO-DATA: HOW TO KNOW THAT TEXTS ARE ABOUT THE SAME EVENT?

## News texts

The  
New York  
Times

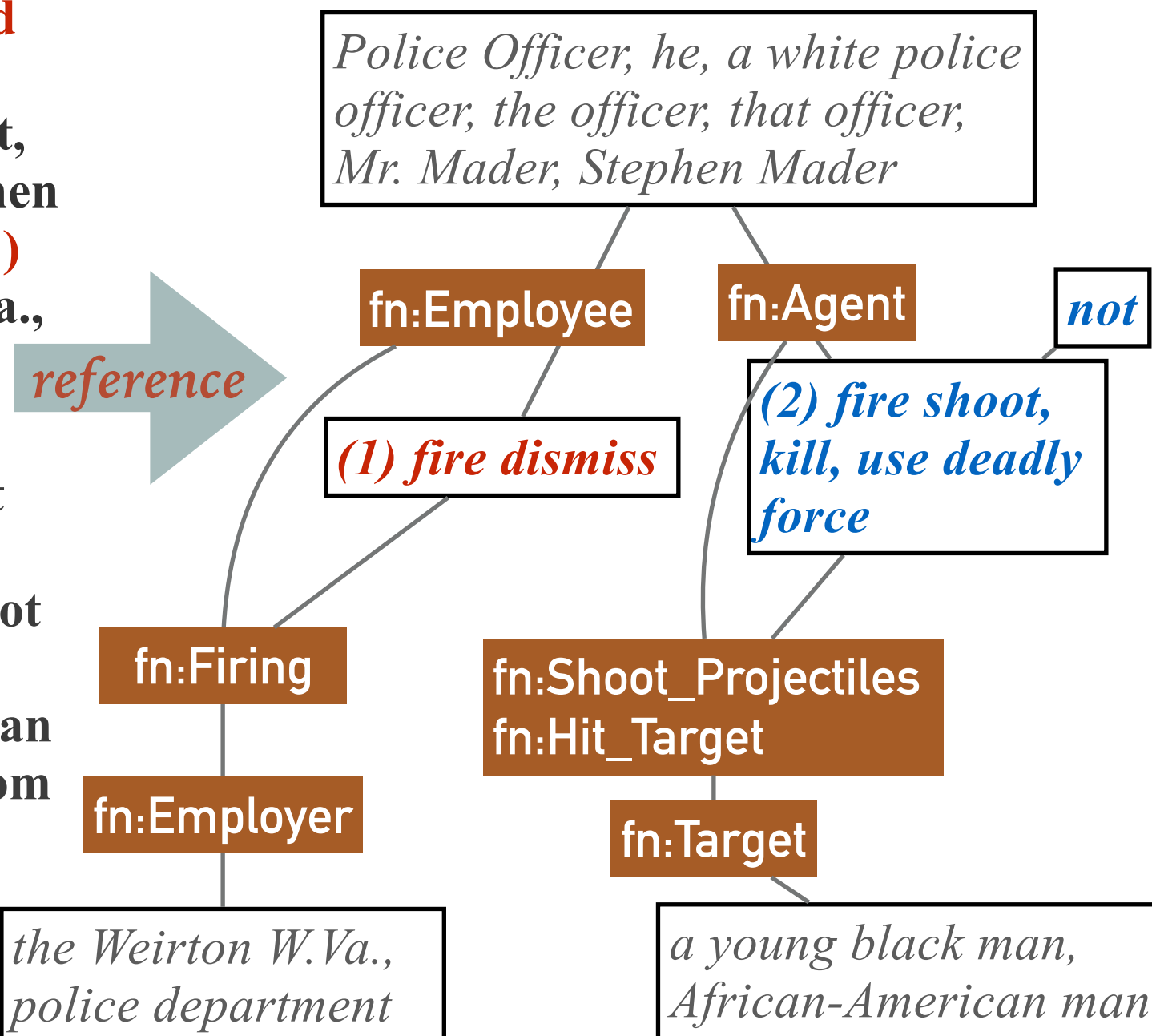


Police Officer Says He Was **Fired (1)** for Not **Shooting (2)**. .. The officer could have **fired (2)** a shot, but he didn't. That officer, Stephen Mader, now 26, was **dismissed (1)** weeks later by the Weirton, W.Va., police department.

Newsweek

The Weirton Police Department **terminated (1)** Mr. Mader's **employment** because he chose not to use deadly force to **shoot (2)** and **kill (2)** and African-American man, who was suicidal, and whom Mr. Mader reasonably believed did not pose a risk of death or serious bodily injury,

## Event-Graph



# FROM-TEXT-TO-DATA: HOW TO KNOW THAT TEXTS ARE ABOUT THE SAME EVENT?

## News texts

The  
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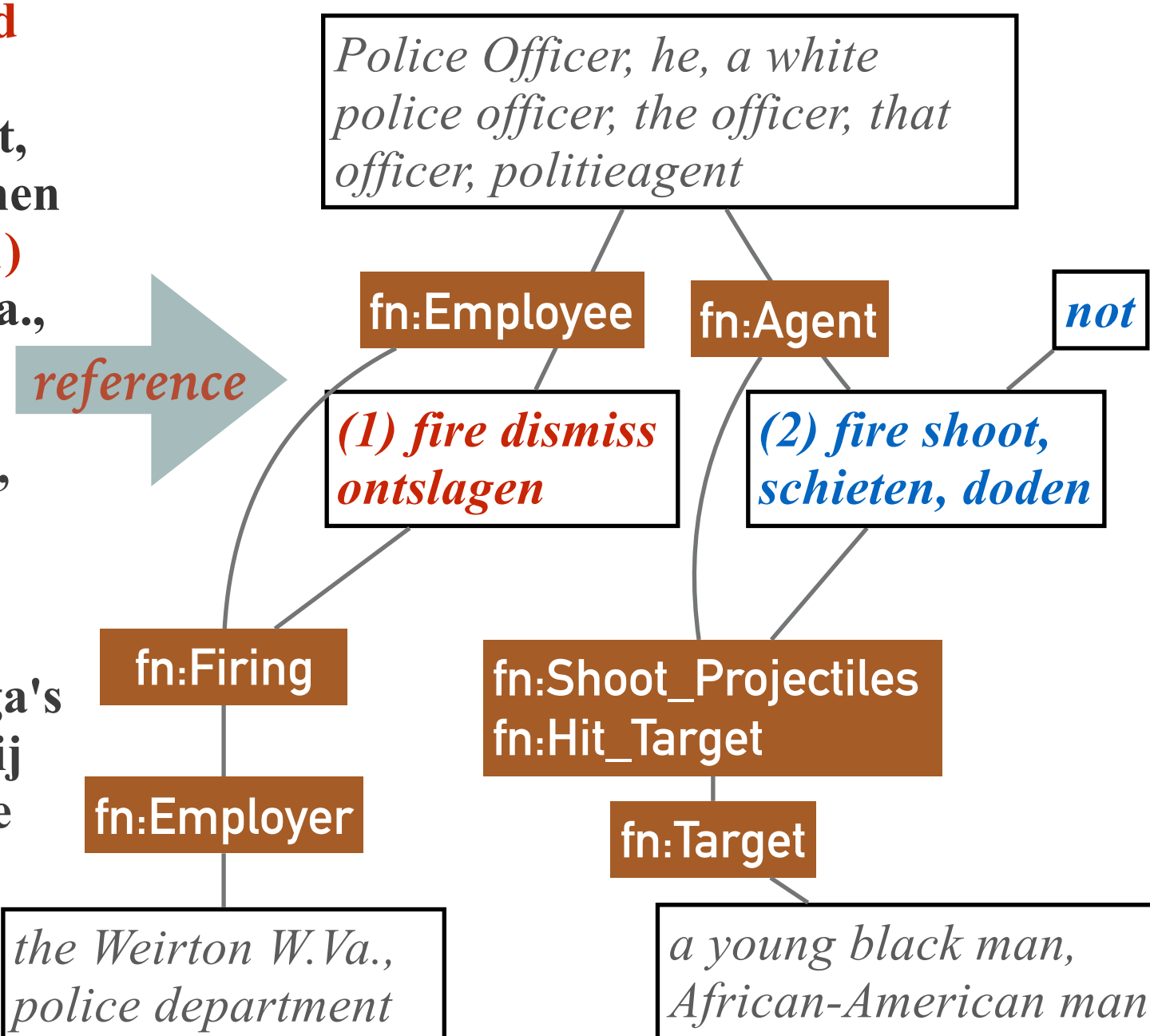
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nl.upost  
.info



Een voormalige Weirton, W.Va., politieagent heeft woensdag een rechtszaak tegen de stad ingediend. Hij beweerde dat hij werd **ontslagen** omdat hij collega's in gevaar had gebracht nadat hij ervoor gekozen had geen man te **schieten** en te **doden** die tijdens een huiselijk geschil een wapen had gezet.

## Event-Graph



# FROM-DATA-TO-TEXT FOR A GIVEN TYPE OF EVENT

accidents, legal, sports, business, social protests, calamities

Event registry

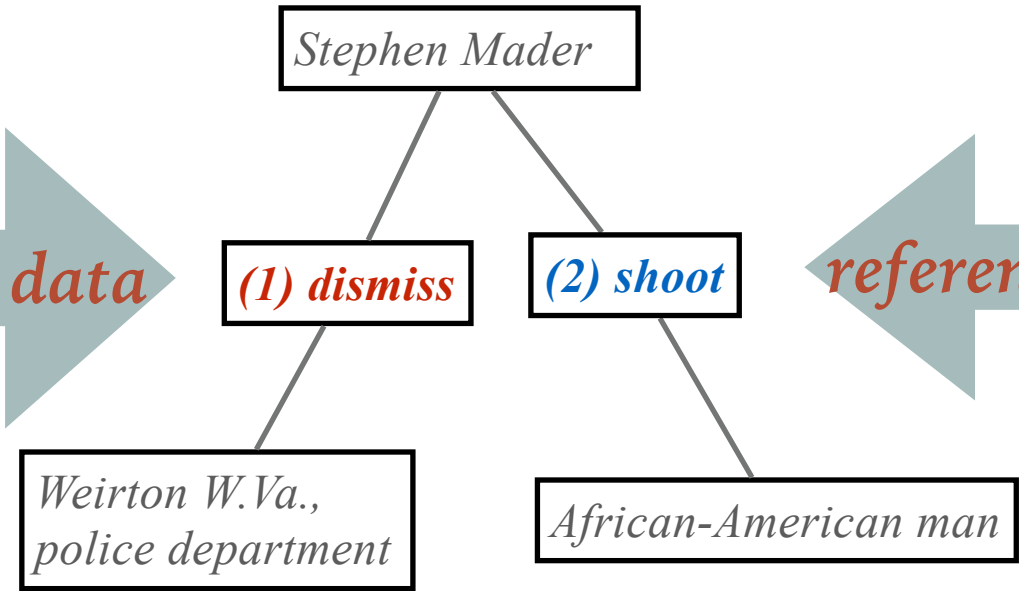
Microworld

Reference text

www.gunviolencearchive.org

GUN VIOLENCE Archive 2017	
Total Number of Incidents	44,092
Number of Deaths <sup>1</sup>	10,996
Number of Injuries <sup>1</sup>	
Number of Children (age 0-11) Killed or Injured <sup>1</sup>	517
Number of Teens (age 12-17) Killed or Injured <sup>1</sup>	2,305
Mass Shooting <sup>2</sup>	257
Officer Involved Incident Officer Shot or Killed <sup>2</sup>	212
Officer Involved Incident Subject-Suspect Shot or Killed <sup>2</sup>	1,460
Home Invasion <sup>2</sup>	1,760
Defensive Use <sup>2</sup>	1,439
Unintentional Shooting <sup>2</sup>	1,432

structured data



reference

incident specific frame

fn:Firing

fn:Shoot\_Projectiles  
fn:Hit\_Target

fn:Employer

fn:Agent

fn:Employee

fn:Target

Police Officer Says He Was **Fired (1)** for Not **Shooting (2)**. .. The officer could have **fired (2)** a shot, but he didn't. That officer, Stephen Mader, now 26, was **dismissed (1)** weeks later by the Weirton, W.Va., police department<sup>+</sup>

The New York Times

The Weirton Police Department **terminated (1)** Mr. Mader's **employment** because he chose not to **use deadly force** to **shoot (2)** and **kill** and African-American man, who was suicidal, and whom Mr. Mader reasonably believed did not pose a risk of death or serious bodily injury,

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nl.upost.info

# FROM-DATA-TO-TEXT

---

## ➤ Advantages:

- Structured information for establishing reference is already given
- Everything that is related to the type of incident needs to be annotated but the set of frames and elements is small and coherent
- Everything that is not related to the type of incident can be ignored (speech acts, cognitive verbs, side-stories)
- less conservative annotations, more (true) variation
- faster, higher agreement
- better starting point for cross-lingual interoperability





## Query Helper



+ Filter

instance of any subclass of crime



+ Show

Limit 90



```
1 #SELECT (count(distinct ?event) as ?cnt)
2 SELECT ?event ?eventLabel
3 WHERE
4 {
5     # find events
6     ?event wdt:P31/wdt:P279* wd:Q83267.
7     #?event wdt:P31 wd:Q83267.
8     # with a point in time or start date
9     OPTIONAL { ?event wdt:P585 ?date. }
10    OPTIONAL { ?event wdt:P580 ?date. }
11    # but at least one of those
12    FILTER(BOUND(?date) && DATATYPE(?date) = xsd:dateTime).
13    # not in the future, and not more than 31 days ago
14    BIND(NOW() - ?date AS ?distance).
15    FILTER(0 <= ?distance && ?distance < 36500).
16    # and get a label as well
17    OPTIONAL {
18        ?event rdfs:label ?eventLabel.
19        FILTER(LANG(?eventLabel) = "en").
20    }
21 }
22 # limit to 10 results so we don't timeout
23 LIMIT 90
```

Table

90 Results in 367 ms

Download

Link

event	eventLabel
<a href="#">wd:Q211087</a>	Pan Am Flight 103
<a href="#">wd:Q217528</a>	Oklahoma City bombing
<a href="#">wd:Q244941</a>	Xi'an Incident
<a href="#">wd:Q429524</a>	2011 Iranian embezzlement scandal
<a href="#">wd:Q460731</a>	Sinking of the Rainbow Warrior
<a href="#">wd:Q536935</a>	1986 West Berlin discotheque bombing
<a href="#">wd:Q569287</a>	Bologna massacre
<a href="#">wd:Q590776</a>	Invergordon Mutiny

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Q590776	

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structured data for crime incident

Baby Bones case (Q4838217)

No description defined

In more languages

Configure

Language	Label	Description	Also known as
English	Baby Bones case	No description defined	
Dutch	No label defined	No description defined	
German	No label defined	No description defined	
French	No label defined	No description defined	

Statements

instance of

murder

0 references

+ add reference

+ add

country

United States of America

0 references

+ add reference

+ add

point in time

15 August 2002

link to Wikipedia

Wikipedia (1 entry)

en Murder of Jon-Niece Jones

Wikibooks (0 entries)

Wikinews (0 entries)

Wikiquote (0 entries)

Wikisource (0 entries)

Wikiversity (0 entries)

Wikivoyage (0 entries)

Wiktionary (0 entries)

Other sites (0 entries)

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structured data for crime incident

Baby Bones case

(Q4838217)

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+ add

point in time

15 August 2002

link to Wikipedia

Wikipedia

(1 entry)

en

Murder of Jon-Niece Jones

Wikibooks

(0 entries)

Wikinews

(0 entries)

Wikiquote

(0 entries)

Wikisource

(0 entries)

Wikiversity

(0 entries)

Wikivoyage

(0 entries)

Wiktionary

(0 entries)

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Murder of Jon-Niece Jones

From Wikipedia, the free encyclopedia

Jon-Niece Jones

(previously known as "Baby Bones") was an American girl whose unidentified skeletal remains were found near the gated forest of New Jersey's Six Flags Great Adventure theme park, by a hunter in search of deer.<sup>[2][3]</sup> The case was showcased by *America's Most Wanted* in 2009 in hopes of generating leads for the unsolved case.<sup>[4]</sup> Jones was identified in October 2012. Her mother had already died; yet her aunt, her aunt's boyfriend and an uncle were charged with concealing evidence of the child's death, believed to have been the result of abuse suffered from her mother.<sup>[5]</sup>

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Jon-Niece Jones

COMPOSITE

NATIONAL CENTER FOR MISSING & EXPLOITED CHILDREN

Reconstruction of the victim by the National Center for Missing & Exploited Children

News.

6.

<sup>^</sup>

<sup>abc</sup>

Zezima, Katie (11 October 2012). "Jon-Niece Jones' Body Found: 3 Charged As 'Baby Bones' Victim Identified As Child In New Jersey". *Huffington Post*. Retrieved 21 July 2015.

7.

<sup>^</sup>

<sup>ab</sup>

"Wrist-slap sentences for 'Baby Bones' death cover-up". *Post Wire Services*. *New York Post*. March 2, 2014. Retrieved 21 July 2015.

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<sup>abcde</sup>

"Case File 479UFNJ". *The Doe Network*. 9 November 2012. Retrieved 21 July 2015.

9.

<sup>^</sup>

Baxter, Christopher (10 October 2012). "3 New Yorkers charged in connection with grisly N.J. 'Baby Bones' case". Retrieved 21 July 2015.

10.

<sup>^</sup>

<sup>ab</sup>

"3 Plead Guilty Related to 'Baby Bones' Case". *NBC New York*. NBC. 19 December 2013. Retrieved 21 July 2015.

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<sup>^</sup>

"Nine-year-old whose skeletal remains were found in the woods is identified as three charged with covering up her death". *Daily Mail*. Associated Press. 10 October 2012. Retrieved 21 July 2015.

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<sup>^</sup>

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<sup>^</sup>

<sup>ab</sup>

"'Baby Bones' suspects plead guilty in Jon-Neice Jones death". *Asbury Park Press*. Gannett. 20 December 2013. Retrieved 21 July 2015.

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<sup>^</sup>

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<sup>^</sup>

Mongelli, Tom (20 December 2013). "Guilty Pleas in 'Baby Bones' Case". *WOBM*. Retrieved 21 July 2015.



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instance of any subclass of crime

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Discovery

2

Investigation

3

Identification and convictions

References

link to References

Jon-Niece Jones



COMPOSITE

NATIONAL CENTER FOR MISSING & EXPLOITED CHILDREN

Reconstruction of the victim by the National Center for Missing & Exploited Children

WIKIDATA

Main page

Community portal

Project chat

Create a new item

Recent changes

Random item

Query Service

Nearby

Help

Donate

Tools

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Related changes

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Permanent link

Page information

Concept URI

Cite this page

structured data for crime incident

link to Wikipedia

Baby Bones case

(Q4838217)

No description defined

In more languages

Configure

Language	Label	Description	Also known as
English	Baby Bones case	No description defined	
Dutch	No label defined	No description defined	
German	No label defined	No description defined	
French	No label defined	No description defined	

Statements

instance of

murder

0 references

+ add reference

+ add

country

United States of America

0 references

+ add reference

+ add

point in time

15 August 2002

+ edit

Wikipedia

(1 entry)

+ edit

en

Murder of Jon-Niece Jones

Wikibooks

(0 entries)

+ edit

Wikinews

(0 entries)

+ edit

Wikiquote

(0 entries)

+ edit

Wikisource

(0 entries)

+ edit

Wikiversity

(0 entries)

+ edit

Wikivoyage

(0 entries)

+ edit

Wiktionary

(0 entries)

+ edit

Other sites

(0 entries)

+ edit

News.

6.

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abc

Zezima, Katie (11 October 2012). "Jon-Niece Jones' Body Found: 3 Charged As 'Baby Bones' Victim Identified As Child In New Jersey" *Huffington Post*. Retrieved 21 July 2015.

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"Wrist-slap sentences for 'Baby Bones' death cover-up" *Post Wire Services. New York Post*. March 2, 2014. Retrieved 21 July 2015.

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"Case File 479UFNJ" *The Doe Network*. 9 November 2012. Retrieved 21 July 2015.

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Baxter, Christopher (10 October 2012). "3 New Yorkers charged in connection with grisly N.J. 'Baby Bones' case" *USA Today*. Retrieved 21 July 2015.

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abc

"3 Plead Guilty Related to 'Baby Bones' Case" *NBC New York*. NBC. 19 December 2013. Retrieved 21 July 2015.

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"Nine-year-old whose skeletal remains were found in the woods is identified as three charged with covering up her death" *Daily Mail*. Associated Press. 10 October 2012. Retrieved 21 July 2015.

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Flammia, Dino (10 October 2013). "Three Charged in Upper Freehold 'Baby Bones' Case" *New Jersey 101.5*. Retrieved 21 July 2015.

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abc

"'Baby Bones' suspects plead guilty in Jon-Niece Jones death" *Asbury Park Press*. Gannett. 20 December 2013. Retrieved 21 July 2015.

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abcde

Goodman, J. David (10 October 2012). "Remains Found in '05 Are of Harlem Girl, Authorities Say" *New York Times*. Retrieved 21 July 2015.

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Corley, Jacklyn (10 October 2012). "Trio Charged in Upper Freehold 'Baby Bones' Child Death Case" *New Jersey Patch*. Retrieved 21 July 2015.

Politics. Retrieved 21 July 2015.

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Villalva, Brittney R. (11 October 2012). "Baby Bones Victim Identified: 9-Year-Old Set on Fire by Aunt and Uncle" *Christian Post*. Retrieved 21 July 2015.

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Ross, David (2012). "3 arrested 7 years after finding child skeleton in New Jersey" *Today Breaking World News*. Retrieved 21 July 2015.

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Bellini, Danica (10 October 2012). "Baby Bones Victim Identified, 3 Charged in NJ for Covering up Abused Child's Death" *MStars News*. Retrieved 21 July 2015.

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Zezima, Katie (11 October 2012). "Jon-Niece Jones' Body Found: 3 Charged As 'Baby Bones' Victim Identified As Child In New Jersey" *Huffington Post*. Retrieved 21 July 2015.

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Warren, Matthew R. (10 October 2013). "3 Arrested in Connection with 'Baby Bones' Case" *NBC New York*. Retrieved 21 July 2015.

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"3 New Yorkers Indicted In 'Baby Bones' Case" *CBS New York*. CBS. 7 January 2013. Retrieved 21 July 2015.

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Key, Rosetta (25 February 2013). "Not Guilty Pleas Entered in Baby Bones Case" *WOBM*. Retrieved 21 July 2015.

27.

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"Suspects Plead Not Guilty In New Jersey 'Baby Bones' Case" *CBS New York*. CBS. 25 February 2014. Retrieved 21 July 2015.

28.

^

"Three people sentenced in 'Baby Bones' case" *Cape Cod Times*. 1 March 2014. Retrieved 21 July 2015.

29.

^

Mongelli, Tom (20 December 2013). "Guilty Pleas in 'Baby Bones' Case" *WOBM*. Retrieved 21 July 2015.

Reference text with mentions

Police in New Jersey have identified a child whose skeletal remains were found in 2005 as a New York City girl who was the victim of years of abuse. They also charged three people, including her aunt and uncle, with covering up her death.

A tip received within the last two months enabled authorities to identify the victim in what came to be known as the "Baby Bones" case as 9-year-old Jon-Niece Jones, of Harlem, Acting Monmouth County Prosecutor Christopher Gramiccioni said Wednesday.

The investigation found that the girl died at the Harlem home of her aunt, Likisha Jones, on Aug. 15, 2002, following years of abuse by the child's mother, Elisha Jones, the prosecutor said.

## 1. Sparql query for accidents

```
1 #SELECT (count(distinct ?event) as ?cnt)
2 SELECT ?event ?eventLabel
3 WHERE
4 {
5   # find events
6   ?event wdt:P31 wdt:P279* wd:Q171558.
7   #?event wdt:P31 wd:Q83267.
8   # with a point in time or start date
9   OPTIONAL { ?event wdt:P585 ?date. }
10  OPTIONAL { ?event wdt:P580 ?date. }
11  # but at least one of those
12  FILTER(BOUND(?date) && DATATYPE(?date) = xsd:dateTime).
13  # not in the future, and not more than 31 days ago
14  BIND(NOW() - ?date AS ?distance).
15  FILTER(0 <= ?distance && ?distance < 36500).
16  # and get a label as well
17  OPTIONAL {
18    ?event rdfs:label ?eventLabel.
19    FILTER(LANG(?eventLabel) = "en").
20  }
21 }
22 # limit to 10 results so we don't timeout
23 LIMIT 90
```

## 2. List of accidents

Q wd:Q223288

Q wd:Q265922

Q wd:Q275701

Q wd:Q282999

Q wd:Q308923

Q wd:Q314087

Q wd:Q320879

Q wd:Q335259

Q wd:Q337044

Q wd:Q346847

Q wd:Q348349

KLM Flight 867

2012 Trans Air Congo Ilushin Il-76 crash

Aero Caribbean Flight 883

Tenerife airport disaster

## 3. Structured data for accident

Tenerife airport disaster (Q223288)

Language	Label	Description	Also known as
English	Tenerife airport disaster	deadliest aviation accident ever	Tenerife Disaster
Dutch	Vliegtuigramp van Tenerife	No description defined	Vliegtuigramp Tenerife Teneriferamp
German	Flugzeugkatastrophe von Teneriffa	Flugzeugkollision im Jahr 1977	Flugzeugunglück von Teneriffa KLM-Flug 4805 PanAm-Flug 1736
French	catastrophe de Ténérife	accident d'avions le plus meurtrier de l'Histoire	Désastre de Tenerife Catastrophe de Tenerife Désastre de Ténérife Désastre de Ténériffe

instance of	aviation accident	<span>edit</span>
	<span>0 references</span>	<span>add reference</span> <span>add value</span>
image	KLM 747 (7491686916).jpg	<span>edit</span>
	<span>1 reference</span>	<span>add value</span>

## 4. Link to Dutch wikipedia

## 5. Dutch Wikipedia



Hoofdpagina  
Vind een artikel  
Vandaag  
Etalage  
Categorieën  
Recente wijzigingen  
Nieuwe artikelen  
Willekeurige pagina  
Informatie  
Gebruikersportaal  
Snelcursus  
Hulp en contact  
Donaties  
Hulpmiddelen  
Links naar deze pagina  
Verwante wijzigingen  
Bestand uploaden  
Speciale pagina's  
Permanente koppeling  
Paginagegevens  
Wikidata-item  
Deze pagina citeren  
Afdrukken/exporteren  
Boek maken  
Downloaden als PDF  
Printvriendelijke versie  
In andere projecten  
Wikimedia Commons  
In andere talen  
العربية  
Deutsch  
English

Artikel Overleg

## Vliegtuigramp van Tenerife

De **vliegtuigramp van Tenerife** vond plaats op zondag 27 maart 1977, toen op de **luchthaven Tenerife Noord** (destijds bekend als **Tenerife** twee vliegtuigen van het type **Boeing 747** – een van **Pan American World Airways** (*Pan Am*) en een van **KLM** – op elkaar boten. Het is daarmee de grootste ramp uit de geschiedenis van de luchtvaart. Slechts 61 inzittenden, allen aan boord van het vliegtuig van KLM, overleefden de ramp.

Inhoud [verbergen]

- Omstandigheden
- Fatale gebeurtenissen
  - Afslag gemist
  - Dichte mist
  - Overhaaste start, misverstand en radiostoring
  - Mislukte uitwijkmanoeuvres, botsing, en brand
- Onderzoek en maatregelen
- Monumenten en herdenking
- Varia
- Externe links

### Omstandigheden [bewerken]

Op 27 maart 1977 was de **Pan Am**-vlucht 1736 anderhalf uur te laat uit **Los Angeles** vertrokken naar de **Canarische Eilanden**, met aan boord 103 passagiers instapten. Aan boord waren in totaal 378 Amerikaanse passagiers voor een cruise op de **Middellandse Zee** eindbestemming **Las Palmas de Gran Canaria** naderde, kreeg gezagvoerder Victor Grubbs te horen dat de **luchthaven** tijdelijk was gesloten door een door **Antonio Cubillo** geleide afscheidingsbeweging en telefonische dreiging met een tweede aanslag. Grubbs wilde blijven wachten tot de vlucht open ging. Dit werd echter geweigerd en de vlucht werd omgeleid naar de luchthaven **Los Rodeos** op het 110 kilometer noordwestelijk van de hoofdstad **Santa Cruz de Tenerife**. Daar kwam het toestel aan rond 14.00 uur plaatselijke tijd. Het moest wachten tot er voldoende ruimte was voor de vlucht van KLM. Tenerife gingen twee personeelsleden van Pan Am als passagier aan boord; zij namen plaats in de cockpit.

**KLM**-vlucht 4805, een chartervlucht vol met vakantiegangers van Holland International, voornamelijk Nederlanders, was dezelfde dag nog op weg naar **Las Palmas**. Ook dit toestel, de KLM-Boeing *De Rijn*, moest uitwijken naar Tenerife. Het was daar circa 25 minuten vóór de Pan Am-Botsing.

Rond 15.00 uur werd Las Palmas weer vrijgegeven. Er waren geen andere bommen gevonden. Het probleem was nu dat een deel van de vlucht met toestellen die waren uitgeweken van Las Palmas. Daarom moest de **startbaan** ook als taxibaan gebruikt worden.

Het KLM-toestel stond om 16.50 uur op het punt om door te reizen naar Las Palmas. De gezagvoerder had het toestel laten voltankt, maar de tanken blokkeerde het KLM-toestel de doorgang van het vliegtuig van Pan Am. De Pan Am-Boeing zou direct daarna vertrekken. De instructies waren om te wachten tot de KLM-Boeing was vertrokken.

## 6. Links to reference texts

### Externe links [bewerken]

- (es)  Webversie van het officiële Spaanse rapport
- (en)  Engelse vertaling van het Spaanse rapport, inclusief commentaar hierop van de KLM
- Definitief rapport van de Raad voor de Luchtvaart:
  - Nederlands
  - Engels
- (en)  Definitief rapport van de Air Line Pilots Association
- International Tenerife Memorial
- Project Tenerife

### Bronnen

- ↑ International Tenerife Memorial, tenerife-memorial.org
- ↑ Afbeelding op project-tenerife.com
- ↑ (en)  Air Crash Investigation The Tenerife airport disaster op YouTube
- ↑ Volkscrant.nl Geboren voor het ongeluk



## 7. Reference text original

**[https://  
www.volkskrant.nl/  
archief/geboren-voor-  
het-ongeluk~a3307696/](https://www.volkskrant.nl/archief/geboren-voor-het-ongeluk~a3307696/)**



## 8. Reference text in the wayback machine

**[https://web.archive.org/web/  
20171012150057/https://  
www.volkskrant.nl/archief/  
geboren-voor-het-  
ongeluk~a3307696/](https://web.archive.org/web/20171012150057/https://www.volkskrant.nl/archief/geboren-voor-het-ongeluk~a3307696/)**



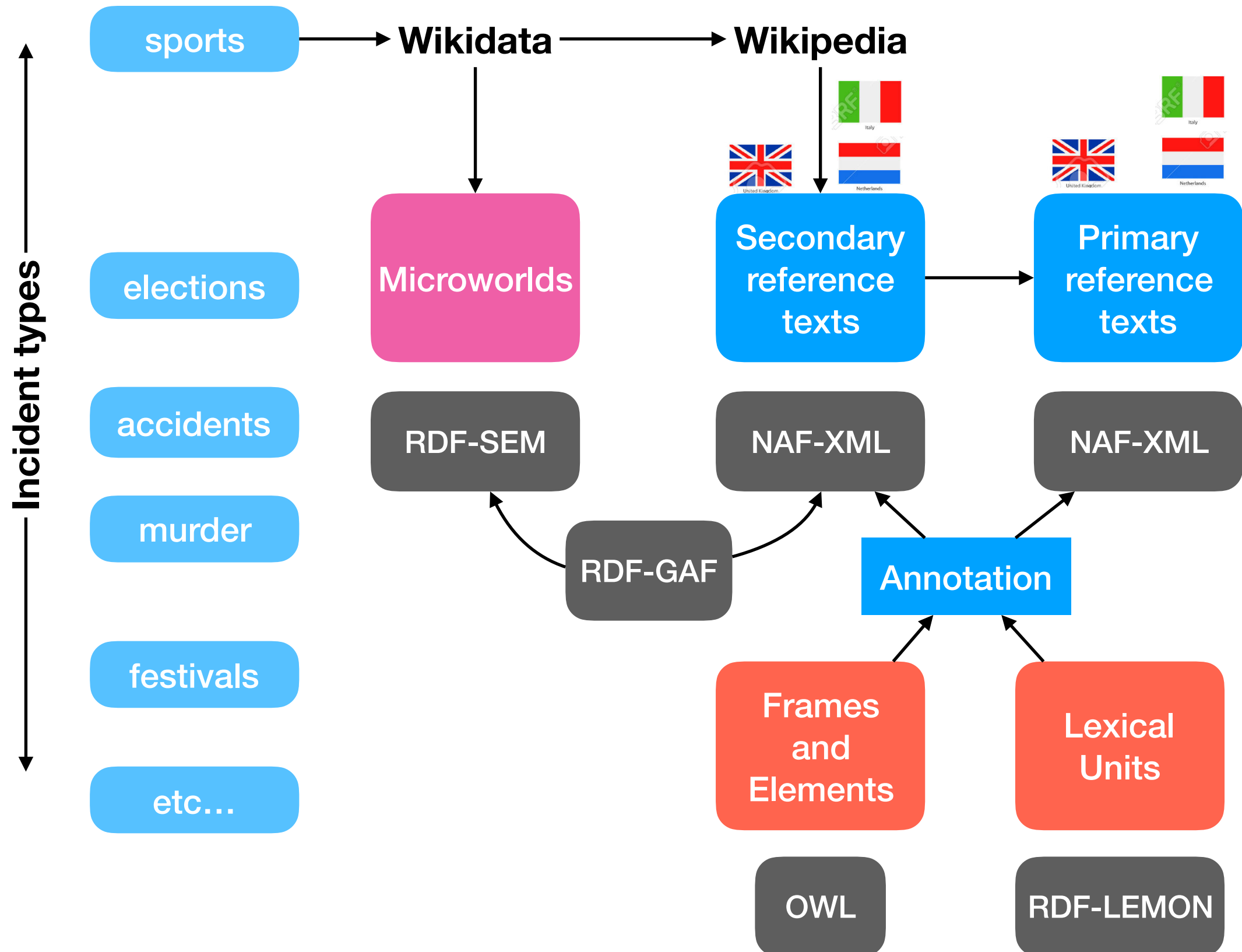
# STRUCTURED EVENT DATA

.....

*DBpedia (Knuth et al., 2015; Elbassuoni et al., 2010), Wikidata (Vrandečić and Krötzsch, 2014), and YAGO2 (Hoffart et al., 2013)*

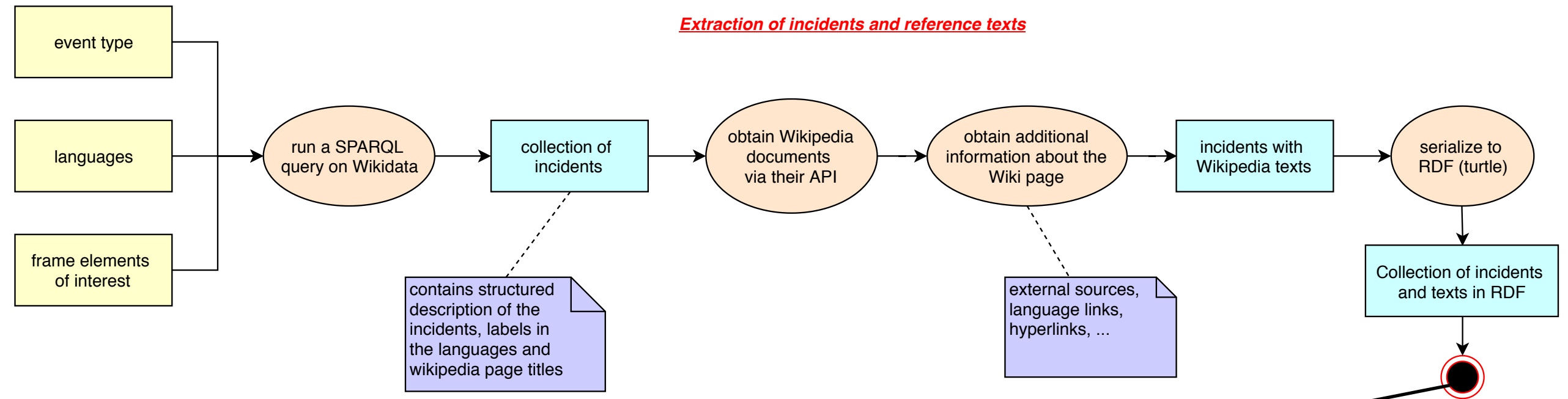
event class	wikidata ID	# events
explosion	Q179057	55
crime	Q83267	1.468
natural disaster	Q8065	1.160
accident	Q171558	2.126
sport competition	Q13406554	41.245
election	Q40231	8.178
referendum	Q43109	134
voting	Q189760	17.110
TOTAL		71.476

# Data-to-Text Platform

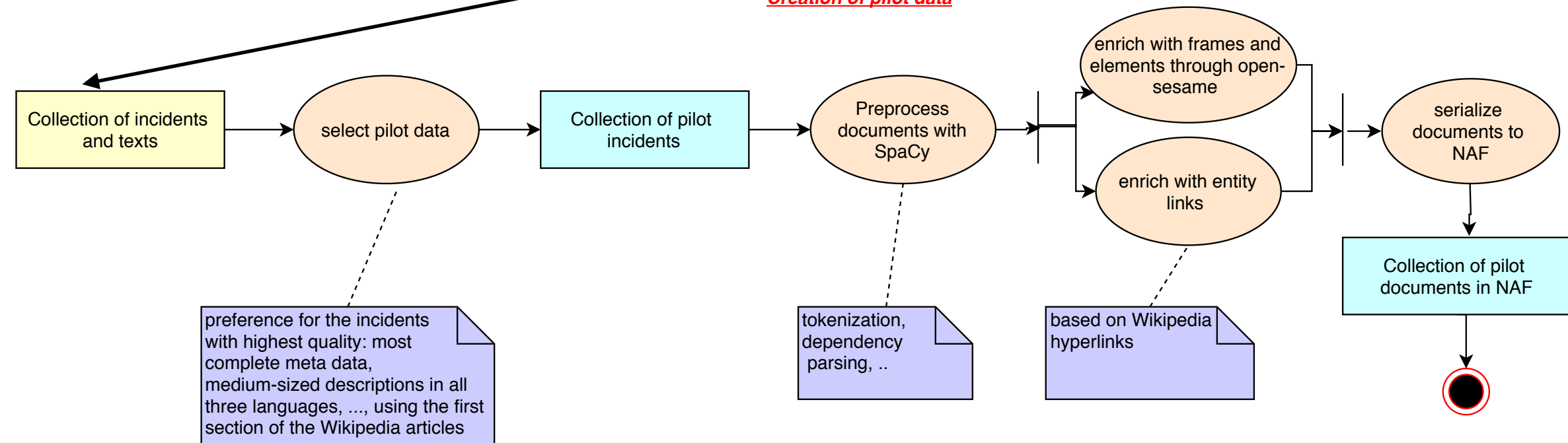


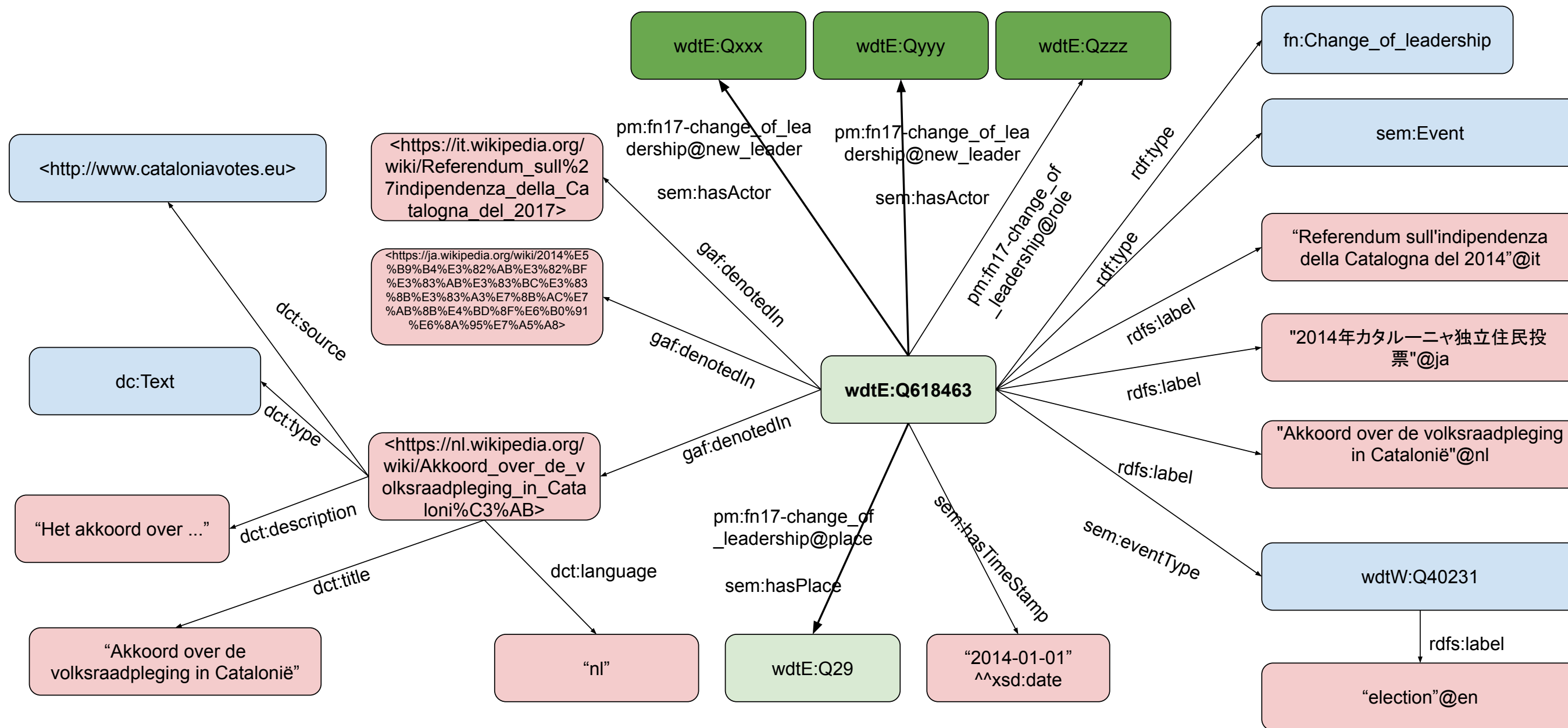
# Extraction Process

## Extraction of incidents and reference texts



## Creation of pilot data





Dublin Core (**dc**):

FrameNet (**fn**):

Simple Event Model (**sem**):

Grounded Annotation Framework (**gaf**):

Others (**rdfs**, **rdf**, **owl time**)

*meta data on sources*

*conceptual situational schema*

*events, participants, time and location relations*

*anchoring instances to mentions in sources*

# Pilot data

- number of incidents: 211
- event types: 175 elections, 36 murders
- total number of text files 633
- Files per language: {'en': 215, 'nl': 212, 'it': 212}
- about 12 hours to generate the data



# Initial statistics on elections

**Most common hyperlinks extracted from Wikipedia pages (we only use the first section)**

English	Entity	Freq
	Prime Minister	21
	Socialist Party	15
	National Assembly	14
	Fifth Republic	14
	President	14
	Sweden	13
	Chile	12
	François Mitterrand	11
	Labour Party	10
	Riksdag	10

Dutch	Entity	Freq
	parlement	25
	vijfde frans republiek	16
	chileens	15
	zweed	13
	2006	11
	presidentsverkiezing	10
	2011	10
	2004	9
	president	9
	2005	8

Italian	Entity	Freq
	Primo ministrare	57
	Presidente	19
	Cile	14
	Partito Socialdemocratico	14
	2007	14
	2011	13
	Primo Ministro	13
	Svezia	13
	2005	12
	2006	11

# Most dominant frames (using open-sesame)

<b>election</b>	<b>Frame</b>	<b>Freq</b>
	Change_of_leadership	686
	Leadership	443
	Interior_profile_relation	340
	Calendric_unit	280
	Ordinal_numbers	255
	Time_vector	211
	Aggregate	191
	Cardinal_numbers	183
	Getting	158
	Containing	155

<b>murder</b>	<b>Frame</b>	<b>Freq</b>
	Killing	129
	Attack	108
	Calendric_unit	95
	Cardinal_numbers	71
	Statement	61
	Leadership	60
	People	58
	Locale_by_use	52
	Weapon	50
	Time_vector	49

# Conclusion

- Data-to-text PLATFORM to create massive data on situations and there framing across languages
- All code, annotations and lexicons available as open source:
  - <http://dutchframenet.nl>
- Capture more variation and more representative data
- Supervised and unsupervised machine-learning on the data to create semantic role labellers
- Challenges:
  - cover all types of incidents and situations
  - speech-acts, cognitive events