Text2Story Lusa

A Dataset for Narrative Analysis in European Portuguese News Articles

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Narratives have been the subject of extensive research across various scientific fields such as linguistics and computer science. However, the scarcity of freely available datasets remains a significant obstacle.

To address this gap, we developed the Text2Story Lusa datasets, which consist of two independent datasets:

Text2Story Lusa and the **Text2Story Lusa Annotated Corpus**.

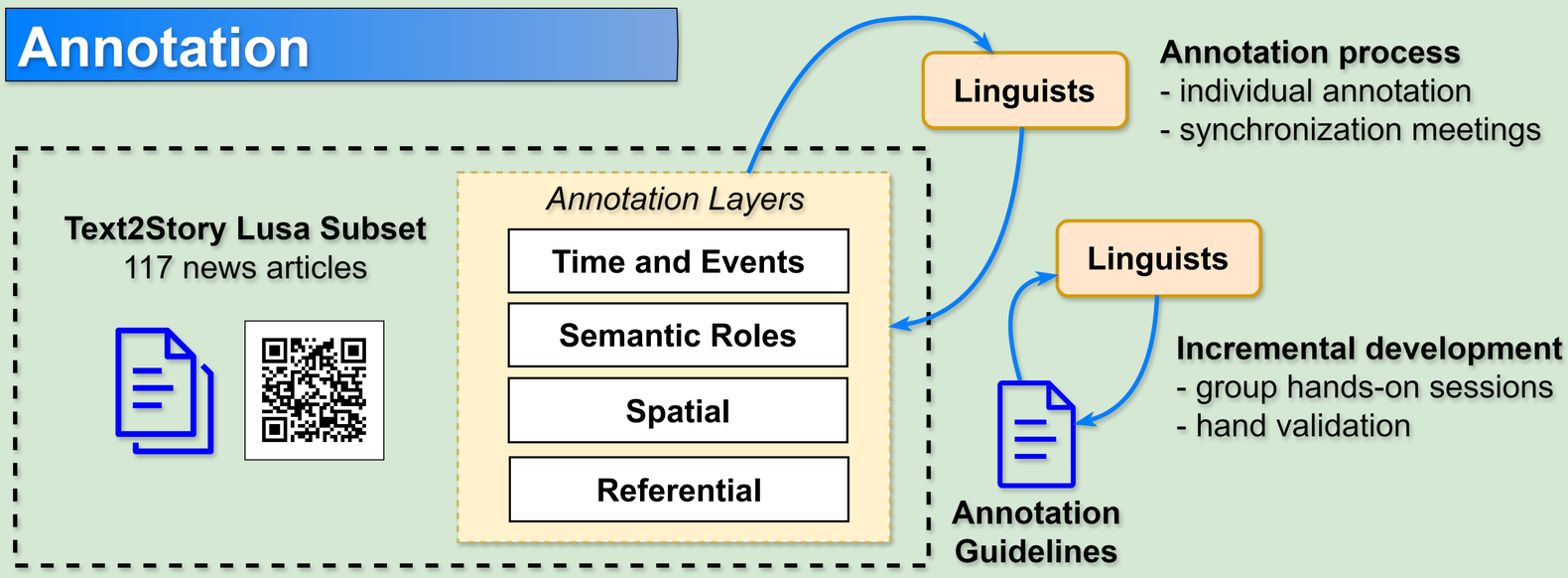
Construction

1st selection criteria:
- size (50 to 200 words)
- language (PT only)
- no repetitions

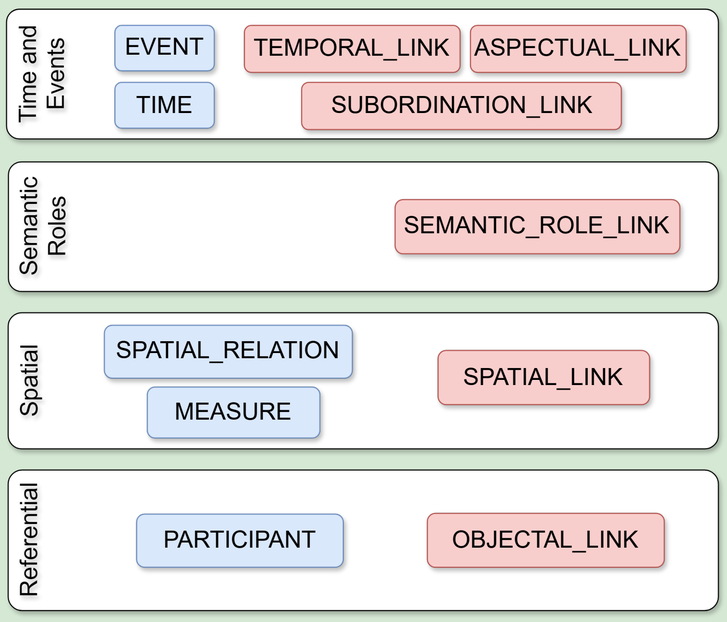
2nd selection criteria:
+ set of keywords

Text2Story Lusa
357 news articles

Annotation



Annotation Scheme



Examples

```
{
  "articles": [
    {
      "id": "102",
      "location": "Lisboa",
      "publication_time": "2020-12-12",
      "headline": "Homem socorrido no Rio Tejo está livre de perigo",
      "content": "Um homem de 68 anos caiu hoje no Rio Tejo, junto ao Cais das
↪  Colunas, […] onde ainda se encontra internado, mas livre de perigo."
    }
  ]
}
```

Listing 1: Text2Story Lusa news article example.

```
T64    Event 930 937 Segundo
A91    Class T64 Reporting
T53    Participant 938 943 a PSP
A286   Lexical_Head T53 Noun
A287   Individuation_Domain T53 Individual
A288   Participant_Type_Domain T53 Org
A289   Involvement T53 1
T54    Participant 945 953 o detido
A290   Lexical_Head T54 Noun
A291   Individuation_Domain T54 Individual
A292   Participant_Type_Domain T54 Per
A293   Involvement T54 1
T21    Time 956 960 hoje
A145   Time_Type T21 Date
A146   TemporalFunction T21 Publication_Time
T22    Event 961 996 presente às Autoridades Judiciárias
A147   Class T22 Occurrence
A148   Event_Type T22 Transition
A149   Pos T22 Verb
A150   Tense T22 Present
A154   Polarity T22 Pos
R86    SRLINK_agent Arg1:T53 Arg2:T64
R67    TLINK_after Arg1:T22 Arg2:T64
R78    SRLINK_patient Arg1:T22 Arg2:T54
R19    TLINK_isIncluded Arg1:T22 Arg2:T21
```

Listing 2: An annotation excerpt, in the BRAT standoff format, from the Text2Story Lusa Dataset. The complete annotated sentence is “Segundo a PSP, o detido é hoje presente às Autoridades Judiciárias.” (Translated: “According to the PSP, the detainee is present today at the Judicial Authorities”).

Characterization

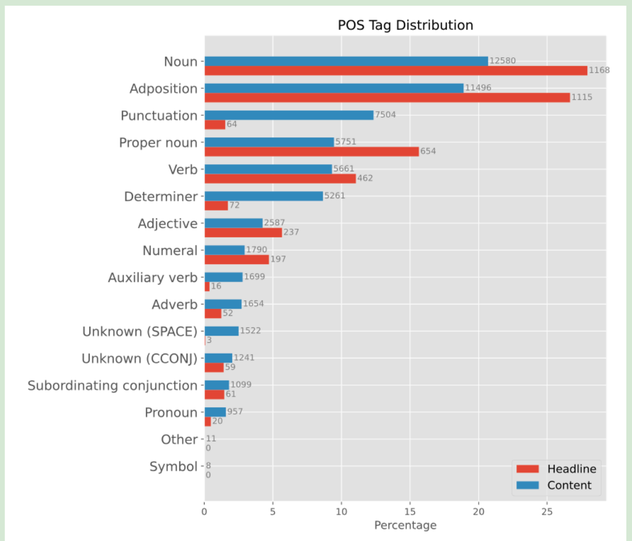


Figure 3: Distribution of POS types in the ‘headline’ and the ‘content’ fields.

Narrative Component	Frequency
Participants	3,530
Events	3,027
Spacial Relations	512
Times	438
Measure	9
Semantic Role Links	4,764
Temporal Links	3,522
Objectal Links	2,224
Qualitative Spatial Link	927
Subordination Link	429
Movement Link	125
Aspectual Link	18

Table 1: Frequency of each narrative component in the Text2Story annotated corpus.

Conclusions

Text2Story Lusa is a linguistic resource comprised of two datasets developed to support research in various fields.

Text2Story Lusa includes a manually curated collection of news articles written in European Portuguese, obtained from the Lusa news agency.

Text2Story Lusa Annotated Corpus includes manual annotations for a subset of the original articles. The annotation adopts a multilayer semantic scheme comprising entity structures and link structures.

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