

## **ClaimPT Annotation Guidelines**

Version 1.2.0

September 2025

Purificação Silvano<sup>1,3</sup>, Raquel Sequeira<sup>2</sup>, Sara Nerea<sup>2</sup>, Inês Cantante<sup>1</sup>, Diogo Folques<sup>2</sup>, Ricardo Campos<sup>2,3</sup>

<sup>1</sup> University of Porto, Porto, Portugal

<sup>2</sup> University of Beira Interior, Covilhã, Portugal

<sup>3</sup> INESC TEC, Porto, Portugal

## Abstract

Nowadays, disinformation has been gaining more and more ground in the virtual space and media ecosystem. Fact-checking is therefore becoming an indispensable activity. For this reason, numerous researchers have attempted to understand how fact-checking can be automated through the use of techniques based on Natural Language Processing to automatically predict the veracity of statements. Although efforts are being made to verify the truthfulness of various pieces of information, the truth is that this process is still very much concentrated on the English language. Moreover, for the automatic detection of this type of disinformation, the existence of annotated datasets is crucial. The ClaimPT project aims to develop a proposal for the detection of claims and non-claims in European Portuguese, starting with the creation of an annotated dataset. To this end, this document presents the annotation scheme and instructions for annotating these news articles. The annotation scheme was developed based on the article “NEWSCLAIMS: A New Benchmark for Claim Detection from News with Attribute Knowledge,”<sup>1</sup> taking into account elements such as topic, stance, claim object, and claimer, but with some additions, such as time, type of source, and link structures. At the same time, the article “Toward Automated Fact-Checking: Detecting Check-worthy Factual Claims by ClaimBuster”<sup>2</sup> was a reference, especially with regard to the claim and non-claim system, and to the strategy for resolving conflicts between annotators. The classification and determination of sources followed the proposals presented in the articles “Classification of News Sources” by Aldo António Schmitz<sup>3</sup> and the “Journalism Manual” by Anabela Gradim<sup>4</sup>.

Keywords: Fact-Checking, News Articles, Detection of Claims and Non-Claims, Disinformation.

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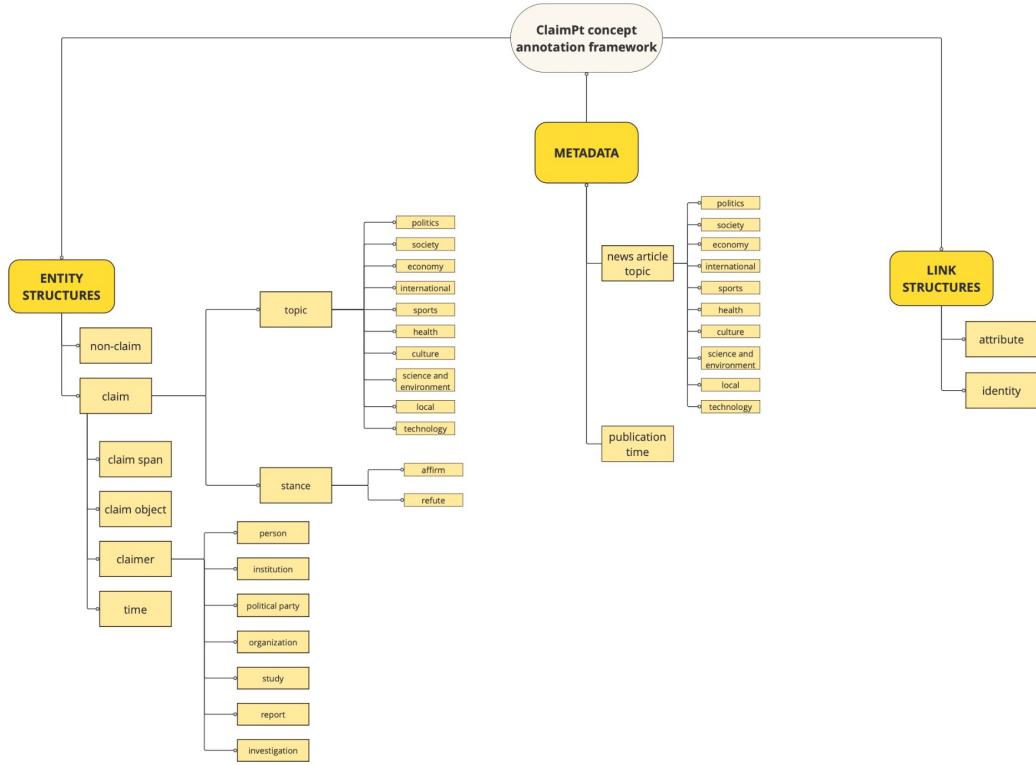
<sup>1</sup> Reddy, R. G., Chetan, S., Wang, Z., Fung, Y. R., Conger, K., Elsayed, A., ... & Ji, H. (2021). Newsclaims: A new benchmark for claim detection from news with attribute knowledge. *arXiv preprint arXiv:2112.08544*.

<sup>2</sup> Hassan, N., Li, C., Arslan, F., & Tremayne, M. (2017). Toward automated fact-checking: Detecting check-worthy factual claims by ClaimBuster. In Proceedings of the 23rd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (pp. 1803-1812). ACM.

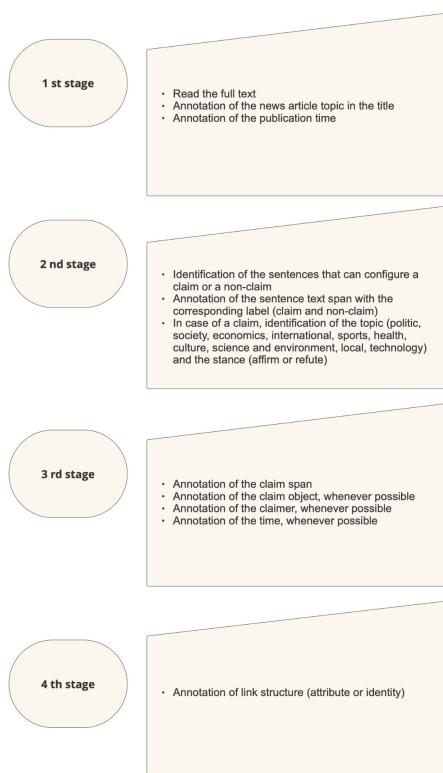
<sup>3</sup> Schmitz, A. A. (2011). Classification of News Sources. Florianópolis: UFSC.

<sup>4</sup> Gradim, A. (2000). Journalism Manual. Universidade da Beira Interior/Livros Labcom.

## I. Annotation scheme structure



## **II. Stages of the annotation process**



### **III. Annotation guidelines**

#### **Metadada**

When annotating the topic, annotators should choose only one topic or class for each article, based on the title, using the label “News Article Topic.” The choice of topic should be the one that best fits, taking into account the subject matter of the piece. In section A.1, we list the topics that can be chosen for the articles. Additionally, the date on which the article was published must be annotated using the label “Publication Time.”

#### **Definition of claim**

A claim is a factual statement containing an alleged fact about the real world, of public interest, which can be verified. In the context of this project, only declarative sentences in direct speech, uttered exclusively by agents other than the journalist (such as people, associations, organizations), are identified as claims. In this sense, these sentences often appear associated with reporting verbs, such as “affirm,” “emphasize,” or “refer,” which precede or follow the agent responsible for the quote (“claimer”).

The following list illustrates the notion of claim (identified in **bold**) as understood in this project.

1. “We began Internal Medicine month with the news that, unsurprisingly, **there were vacancies left to fill in the competition to choose specialties, and Internal Medicine was the hospital specialty with the most unfilled vacancies.**” (Text: Lusa 5)
  
2. “**This system worked until the spring of 2022 and worked well**, then it was changed by the European Commission and today truck drivers are blocking the border.” (Text: Lusa 12)

#### **Entity structures**

##### **A. Claim**

**Definition:** Factual statements that are of public interest. Generally, claims that contain information about health, politics, such as measures taken by the government, wars around the world, and climate change are of collective interest.

**Text segment:** Only text segments containing declarative sentences that occur in direct speech, with quotation marks and with complete meaning, will be noted. Quotation marks, periods, and commas before the end of the sentence should not be included in the text segment.

- Each quote must be analyzed individually (phrase by phrase).

In the example below, two claims are identified (one in **bold** and one in **blue bold**), as understood in this project.

Example: “**We are at the university station, which is the end of the line for the southern metro line of the Tagus, leaving thousands of people without alternative transportation.** **The government had promised to extend the light rail to Costa da Caparica.**” (Text: Lusa 60)

- Text segments corresponding to expressions or incomplete phrases that do not contain a meaningful statement will not be noted.

The following example illustrates an incomplete sentence (in **orange bold**).

Example: At the signing ceremony for the ‘Compromisso Visão Zero 2030’ the National Road Safety Authority and ‘Brisa Autoestradas’, part of the National Road Safety Strategy – Visão Zero 2030, José Luís Carneiro stated that the revenue from speed cameras, which is around 70 million to 80 million euros, “**will have been below forecasts.**” (Text: Lusa 13)

Example: The coordinator of the Bloco de Esquerda, Mariana Mortágua, said today that her party wants to “**heal the wounds of the socialist absolute majority**”, look at the problems, and provide solutions. (Text: Lusa 60)

- Sentences that are factual, common sense, objective, or merely informative statements without opinion should not be labeled as claims.

In the example below, one purely informative sentence that cannot be annotated (in **bold purple**) is identified.

Example: “**And from today, when the call opens, entities that are part of the Portuguese Contemporary Art Network will be able to apply for funding of two million euros,**” specified the Minister of Culture. (Text: Lusa 7)

- Some phrases could be claims, but as they are far removed from the Portuguese reality, it can be difficult for a journalist to verify them quickly. Additionally, phrases that indicate a future possibility or refer to the future should not be noted. In this case, the annotators should not annotate them as claims.

Example: “Approximately 25% of the minutes [excuses for overtime] will have an impact in December,” he explained. (Text: Lusa 5)

Example: “I am running out of water and having to ration it. **I know the emergency services are busy, but we are here without help.**” (Text: Lusa 226) (In this case, the claim is made about the Cumbria Fire and Rescue Service, and it would be difficult to verify this claim).

## A.1. Topic

**Definition:** The theme underlying the claim (Reddy et al., 2021). The annotator should analyze only the claim in question, and not the entire text, to define the topic that best fits the claim, even when the scope of the article may be another topic. Annotators should choose only one topic; if there is doubt between more than one, they should choose the one that is most salient in the claim.

The following topics are considered:

**Politics** - When claims are related to the government, political parties, and national politics (e.g., election candidacies, approval of bills).

Example: “**The government had promised to extend the light rail to Costa da Caparica, and that promise was not kept,**” Mortágua criticized yesterday. (Text: Lusa 60)

**Society** - When claims relate to issues in Portuguese society, such as justice, education, immigration, social protection, and accidents (e.g., changes in tuition fees, high-profile cases in the Portuguese justice system, cases of police violence).

Example: “**Regarding the number of promotions and career advances in recent years and how many workers have not moved up in more than 3, 5, and 10 years, it is clear that most workers have not had any professional advancement in the last 10 years.**” (Text: Lusa 25)

**Economy** - All claims related to the national economy, monetary policy, banking, public finances, labor and employment issues (e.g., approval of the state budget, changes to tax law, increase in public debt).

Example: “**Officials come to boast about budgetary achievements, but the CGE reveals that the real achievement belongs to taxpayers, and more than half of the surplus results from investment that was never executed,**” said. (Text: Lusa 536)

***International*** - Claims concerning other countries, conflicts, and organizations (e.g., NATO meetings, armed conflicts, natural disasters).

Example: “**The Israeli machine of death, destruction, and genocide has resumed the murder of children, women, and the elderly, ignoring all reason, conscience, and humanity.**”(Text: Lusa 91)

***Sports*** - When claims are about different sports and national athletes (e.g., refereeing issues, club management issues).

Example: “**There are still many drivers who have not signed a contract.**” (Text: Lusa 343)

***Health*** - About claims related to access to healthcare and discoveries in the field (e.g., closure of emergency rooms, changes in drug reimbursement, new medications and treatments for Alzheimer's disease).

Example: “**Not because they don't want to work in emergency services, but because these services are disorganized**”, pointing to the excess of patients in emergency rooms, “due to a lack of support in the community and institutions.” (Text: Lusa 5)

***Culture*** - Claims about various areas and industries of culture (e.g., state support for the arts).

Example: “**One-off support is not biennial, it does not provide the same stability that the minister talks so much about.**” (Text: Lusa 329)

***Science and environment*** - When claims are related to science, such as national or international scientific discoveries in a wide range of areas, such as genetics or archaeology, and environmental issues such as climate change (e.g., discoveries that change our understanding of history, scientific trials and research, measures to reduce greenhouse gas emissions, and climate change).

Example: “**Has started operating Europe's largest photovoltaic solar energy production unit for self-consumption (UPAC) with a power output of 19.6 MVA [megavolt-amperes], comprising 43,000 panels and an energy production capacity of over 40,000 MWh per year, representing a total investment of over €20 million.**” (Text: Lusa 179)

**Technology** - Claims related to new technologies, both national and international, such as social media, artificial intelligence, or the internet (e.g., new legislation on user privacy, cyber espionage, digital services).

Example: “**Portugal is at the forefront of this cutting-edge technology, with advantages for everyone.**” (Text: Lusa 705)

**Local** - Claims related to a specific part of the national territory (changes to public transport routes, cultural heritage issues, criminal cases).

Example: “**The interregional lines that AMP would contract were defined in the 2019 agreements, so CIM do Cávado would already have been aware that this line would be terminated.**” (Text: Lusa 95)

## A.2. Stance

**Definition:** The stance represents the position of the agent responsible for making the claim regarding the content of the claim. In this scheme, the stance annotation indicates whether the claimer (the person/entity associated with the claim) is affirming or refuting the content of the claim (Reddy et al., 2021).

The following examples illustrate the notion of claim (identified in **bold**) and stance, as understood in this project.

STANCE	EXAMPLES
AFFIRM	“ <b>There are about two million people living on less than 591 euros per month.</b> ” (Text: Lusa 187)
REFUTE	“ <b>One-off support is not biennial, it does not provide the same stability that the minister talks so much about.</b> ” (Text:Lusa 329)

## A.2. Non-claim

**Definition:** Sentences that contain subjectivity, such as opinions, beliefs, information, and personal positions (Arslan et al., 2020). In addition, sentences that have speculation, or future references, which are not possible to prove, therefore, they are not facts and do not constitute a claim.

**Text segment:** Text segments contained in declarative sentences that occur in direct speech and in quotation marks will be annotated. Quotation marks should not be included in the text segment, nor should periods and commas before the end of the sentence. The annotation must be done one sentence at a time.

The following list illustrates the notion of non-claim (in **red bold**), as understood in this project.

Example: "**Portugal is definitely the favorite to finish in first place,**" Erich Brabec said, adding: "**In every position, Portugal has two or three good players competing in Europe. They have a lot of quality in every position on the field.**" (Text: Lusa 70)

Example: "**I believe that the decision of the President of the Republic [of Guinea-Bissau] is not correct.** It is an unconstitutional decision because it violates Article 94 of the Constitution. The article states that parliament cannot be dissolved within one year of its election," Bacelar Gouveia (Constitutional law expert) told the Lusa news agency. (Text: Lusa 33)

Example: "**The real criminals are those who deserve to be in prison,**" he (Italian Deputy Prime Minister and Minister of Transport and Infrastructure, Matteo Salvini) added. (Text: Lusa 27)

- Claims (in bold) and non-claims (in red) can exist simultaneously in the same quote.

Example: "In response, Al-Jaber stated: "**I agreed to come to this meeting to have a sober and mature conversation. I am not in any way subscribing to any alarmist discussion. There is no science, or no scenario, that says phasing out fossil fuels is what will achieve [the target assumed in the Paris Agreement of] 1.5°C.**" (Text: Lusa 251)

## B. Claim Span

**Definition:** Within the claim (sentence), it is possible to identify the exact boundaries of the claim (Reddy et al., 2021).

**Text segment:** The claim span must be noted within the claim. The claim span must present a complete statement with the information necessary for a full interpretation. Quotation marks, as well as periods and commas before the end of the sentence, should not be included in the textual segment. Each claim span should be annotated individually.

In the example below, the claim (in **bold**), the claim span (in **turquoise bold**), the topic, and the stance are identified, as understood in this project.

Example: "**Housing support is essential for teachers who, given their salaries, cannot afford housing costs,**" stated Mário Nogueira". (Text: Lusa 105)

*In this example, the topic is society, and the stance is affirm.*

Example: "**The Foupana dam, or potential dam, and the banks of the Foupana stream have no protection status, therefore they fall within the area designated as a possible prospecting area,**" stated the deputy mayor, emphasizing that in the public consultation, entities could only "issue opinions based on the territorial management instruments currently in force". (Text: Lusa 34)

*In this example, the topic is local, and the stance is affirm.*

- A sentence can only contain one claim, but it may present more than one claim span, representing more than one aspect that must be verified.

Example: "**What we know from an internal perspective is that our candidacy has managed to mobilize the overwhelming majority of our supporters, but we also know, from the most scientific methods at our disposal, that the majority of Portuguese people prefer our candidacy and our project,**" he pointed out. (Text: Lusa 190)

*In this example, the topic is politics, and the stance is affirm.*

### C. Claim object

**Definition:** The claim object refers to the target, the main point of the claim, taking into account its topic. Thus, the claim object seeks to identify what is being portrayed in the topic of the claim. The object must always be within the claim span and, whenever possible, the most specific term should be annotated to provide more context. It can refer to both words and verbs, depending on the article. When the claim object is incomplete within the claim span, the link identity must be used to link it to the expression outside the claim span that provides better context. Determiners are not included.

**Text segment:** The claim object must be annotated within the claim span. The claim object can correspond to one or more words, or even an expression, but it must be as succinct as possible. A claim object must be annotated for each claim span. For two claim spans, there must be two claim objects. Basically, annotators must ask themselves what is at stake in the claim to find the claim object. Quotation marks, periods, and commas should not be annotated.

The following examples illustrate the notion of claim (identified in **bold**), claim span (identified in **turquoise bold**), claim object (identified in **pink bold**), topic, and stance, as understood in this project.

Example: “**In a context of worsening living conditions for most of the population, multinational energy companies have seen their profits increase scandalously,**” the communists note in the request.” (Text: Lusa 38)

*In this example, the topic is economy, and the stance is affirm.*

- There can be two claim spans with two claim objects.

The following example illustrates the concept of claim (identified in **bold**), claim span (identified in **turquoise bold**), claim object (identified in **pink bold**), topic, and stance, as understood in this project.

Example: “**We began Internal Medicine month with the news that, unsurprisingly, there were unfilled vacancies in the competition to choose specialties, and Internal Medicine was the hospital specialty with the most unfilled vacancies,**” laments the president of SPMI.

(Text: Lusa 5)

*In this example, the topic is health, and the stance is affirm.*

- Whenever the claim object has any anaphoric reference (through pronouns such as: *this*, *that*, *that one*), that is, whenever understanding the claim object requires referring to information from the previous context, the expression within the claim is annotated as a claim object and linked via an Identity link to the expression in the previous context, which should also be annotated as a claim object..

The following example illustrates the notion of claim (identified in **bold**), claim span (identified in **turquoise bold**), claim object (identified in **pink bold**), topic, and stance, as understood in this project.

Example: The Polish prime minister today called for the restoration of the **European licensing system for Ukrainian transport companies sending trucks to Poland**, after a month of border blockades by Polish truck drivers.

**“This system worked until spring 2022 and worked well, then it was changed by the European Commission and today truck drivers are blocking the border,”** he added. (Text: Lusa 12)

*In this example, the topic is international, and the stance is affirm.*

#### D. Claimer

**Definition:** These are entities that can be, for example, public figures such as congressmen, ministers, presenters, or former presidents (people in the media sphere); an expert in a particular field, such as doctors or economists; or institutions, such as a foundation, association, organization, or an official representative of the institution. Identifying the claimer may be relevant in determining whether or not the statement corresponds to a claim.

Indeed, there is a difference between a claim being made by a user of a social network, such as Facebook, or being made by a member of the House of Representatives. However, even political, business, and institutional sources can be called into question because of the content they assert.

Several entities associated with different claims may appear in the article. Whenever a claim is identified, the person making it must be identified. Once the claimer has been identified, they should be noted as: person, institution, political party, organization, study, report, or investigation.

**Text segment:** Names of individuals, such as Luís Montenegro, or political positions, such as Prime Minister, should both be annotated. Political, social, cultural, and academic institutions, political parties, organizations, unions, foundations, or their representatives should also be annotated. The determinant should also be noted in cases where the claimer is associated with a company or a lawyer, for example, without any additional identifying name. In the case of studies, reports, and investigations, annotators should determine whether or not they are reliable documents from reliable sources. If the sources of the statements raise doubts, they should be noted as claimers. It is important to note that the claimer closest to the claim should be noted, and when the claimer appears, for example, in relation to their professional title in another sentence that provides more context about the claimer, there must be an *Identity link* connecting the closest name to the other.

In the examples below, the claim (in **bold**), the non-claim (in **red bold**), the claim span (in **turquoise bold**), the claim object (in **pink bold**), and the claimer (in **green**) are identified as understood in this project.

Example: “**In a context of worsening living conditions for most of the population, multinationals in the energy sector have seen their profits increase scandalously,**” said the PCP. (Text: Lusa 38)

*In this example, the topic is economy, and the stance is affirm. The claimer is classified as a political party.*

- The claimer can be referred to throughout the article in different ways, such as by name or by position. The claimer must be identified by the name given in the article that best identifies the entity, position, or person to whom the claim is associated.

In the examples below, the claim (in **bold**), any non-claim (in **red bold**), the claim span (in **turquoise bold**), the claim object (in **pink bold**), and the claimer (in **green**) are identified as understood in this project.

Example: **The Altice Group Workers' Union in Portugal (STPT)** said today that the company's proposal in the collective bargaining agreement (CBA) negotiations leaves all workers “with a loss of purchasing power.”

**The union** recalled that, “**when it presented its proposal at the meeting on November 24, the Executive Committee stated that, with that proposal and what had been negotiated for 2023, it would be compensating Altice group workers, especially those who earn less, for the loss of purchasing power in 2022 and 2023.**” (Text: Lusa 25)

*In this example, the topic is society, and the stance is affirm. The claimer is classified as an organization.*

It should be noted that the claim is associated with the union specified in the first paragraph as the Altice Group Workers' Union in Portugal (STPT). The union is noted as the claimer and, through the Identity link, is linked to the more complete claimer, the Altice Group Workers' Union in Portugal (STPT), so that it is clear which union made the claim.

Example: “We begin Internal Medicine month with the news that, unsurprisingly, **there were unfilled vacancies in the competition to choose specialties, and Internal Medicine was the hospital specialty with the most unfilled vacancies**” laments the president of SPMI.

Lelita Santos argues that, “**since Internal Medicine is the specialty that sustains hospitals and, in turn, is central to the National Health Service, it is necessary for everyone, especially policy makers, to give due consideration to this issue**”. (Text: Lusa 5)

*In this example, the topic is health, and the stance is affirm. The claimer is classified as a person.*

- The claimer does not always appear before or after the claim. In these cases, the claimer can be found in paragraphs at the beginning of the article.

Example: **The coordinator of the Bloco de Esquerda, Mariana Mortágua**, said today that her party wants to “heal the wounds of the socialist absolute majority,” look at the problems, and provide solutions.

“**The moment we are living in now is one of departure from a socialist absolute majority that left hospitals in chaos, housing as an impossibility for the majority of the population, and determined that many people who work have lost purchasing power**,” said. (Text: Lusa 60)

*In this example, the topic is politics, and the stance is affirm. The claimer is classified as a person.*

- If the citations refer to entities that are considered official sources and, therefore, credible and that produce factual and substantiated statements, such as police or government sources, they are not considered claims and, thus, are not annotated.

The following example illustrates a credible source that cannot be annotated (in **burgundy**), as understood in this project.

Example: In a report issued today, the **ECA (European Court of Auditors)** emphasizes that “competition levels in public procurement contracts for works, goods, and services have declined over the past decade in the EU single market.” (Text: Lusa 1)

- Claims will also not be noted when citations refer to reports, letters, decrees, or any type of document associated with a claimer considered to be a credible and qualified source.

The following example illustrates the source (in **gray**), the report, which is not considered a claimer in this project.

Example: “The short-term outlook points to a slight acceleration in inflation in the fourth quarter of 2023,” according to **the Economic Outlook and Inflation Prospects report**, completed this month by the Bank of Mozambique and to which Lusa had access today. (Text: Lusa 50)

- In this project, sources/entities that are credible and whose citations cannot be questioned are not annotated. According to Gradim (2000), these sources are competent, qualified, and authorized to provide information that is reliable and trustworthy. If the source is dubious, raises suspicions, and calls into question the truthfulness of the information, it is considered in the annotation.

Thus, there are several types of sources that can be taken into account in the annotation process. It is important to note that, in certain situations, the source may be anonymous because the people or organizations do not want to be identified. There are cases where these sources establish a privacy and source preservation agreement with the journalist, and in this case, they will not be considered for annotation.

1. According to Schmitz (2011), a source can be an official entity. This source refers to public figures with public functions or positions who are part of the State, such as the Assembly of the Republic, ministries, municipal councils, parish councils, police, and judicial forces, in addition to aggregated organizations such as the Institute of Registration and Notary Affairs, public companies, etc. These sources issue information of public interest and with the potential to be reported, usually through press releases. As mentioned earlier, in these situations, annotators must consider the trustworthiness and credibility of sources.
2. A source may, on the other hand, be unofficial. This is the case for all entities that are not related to the state, such as associations, companies, unions, and sports clubs.

3. The source may be a business, such as a representative of a particular industrial, commercial, or service company, or even the company itself.
4. There is also the institutional source, i.e., non-profit organizations or social groups. Generally, this source seeks to raise awareness and mobilize society on social or political causes.
5. A specialized source is a person or organization with in-depth knowledge in a certain area of expertise. This type of source is capable of analyzing events and deducing their possible consequences.
6. Ordinary people and artistic personalities can also be journalistic sources, provided they are not affiliated with organizations or social groups. They may be victims or witnesses of a particular action. This source is called an individual source.
7. Finally, there are reference sources such as documents, articles, press releases, reports, newspapers, magazines, audiovisuals, websites, and portals that journalists consult and use to support their narrative and journalistic content.

## E. Time

**Definition:** Indication of the explicit, implicit, or relative date associated with the statement of the claim. Even if this is not expressly identified, annotators should pay attention to the entire text to understand the time associated with the claim, through relative expressions such as “today,” “yesterday,” “last week,” explicit dates, such as “November 19,” or an implicit date, such as “Christmas” (December 25). The time is only linked when it is directly connected to the moment of the claim.

**Text segment:** The temporal expression (explicit, implicit, and relative) associated with the claim must be annotated and can be found after, before, or in the claim. Time can be found in the context surrounding the claim that the journalist writes or in the claim itself.

The following examples illustrate the notion of claim (identified in **bold**), the claim span (in **turquoise bold**), the claim object (in **pink bold**), the claimer (in **green**), and the time (in **yellow**), as understood in this project.

Example: **On December 29**, Nuno Dias, a resident of Almada, questioned **the mayor, Inês de Medeiros**, about "the indiscriminate felling of stone pines," indicating that it was allegedly for timber sales, and also referenced the construction of boardwalks, considering they would have an environmental impact on the reserve.

"**Trees at risk of falling were cut down**," **Inês de Medeiros** explained, adding that the intervention is not the municipality's responsibility, but that the Almada City Council, in the Setúbal district, "supports everything that is done to protect the Mata dos Medos." (Text: 877)

*In this example, the topic is science and environment, and the stance is affirm. The claimer is classified as a person.*

Example: The coordinator of the Bloco de Esquerda, Mariana Mortágua, said today that her party wants to "heal the wounds of the Socialist absolute majority," look at the problems, and provide solutions.

"**The absolute majority closed hospitals and emergency rooms, left Portugal in a housing crisis, and was responsible for impoverishing a vast segment of the population that lost purchasing power,**" Mariana Mortágua emphasized in statements to journalists in Almada, in the Setúbal district.

(Text: Lusa 60)

*In this example, the topic is politics, and the stance is affirm. The claimer is classified as a person.*

Example: "**Russia has once again violated the laws and customs of war, as well as the norms of international law,**" accused Ukraine's military strategic communications center on Saturday, referring to an "execution video." (Text: Lusa 299)

*In this example, the topic is internacional, and the stance is affirm. The claimer is classified as an institution.*

- If there is no date associated with the claim, the label Time isn't assigned.
- The date of publication (month/day/year) must be labeled as *Publication Time* by the annotators. When it is possible to annotate the Time label, annotators must link it to the *Publication Time* using the identity link structure, which will be explained below.

The following examples illustrate the time (in yellow) and the publication time (in orange), as understood in this project.

Example: Bissau, December 4, 2023 (Lusa) – The President of Guinea-Bissau, Umara Sissoco Embaló, decided today to dissolve the parliament, following the clashes on Thursday and Friday between security forces, which he considered to be an attempted coup. (Text: Lusa 85)

## Link structures

### A. Attribute

Elements such as claim span, claim object, claimer, and time are characteristics of the claim. Through linking structures, we can understand which claim a particular claimer belongs to, the object being

described, and the time at which it was said. These links allow the claim to be linked to its respective claimer, which may be in previous paragraphs, for example, and enable a complete categorization of each claim.

Example:

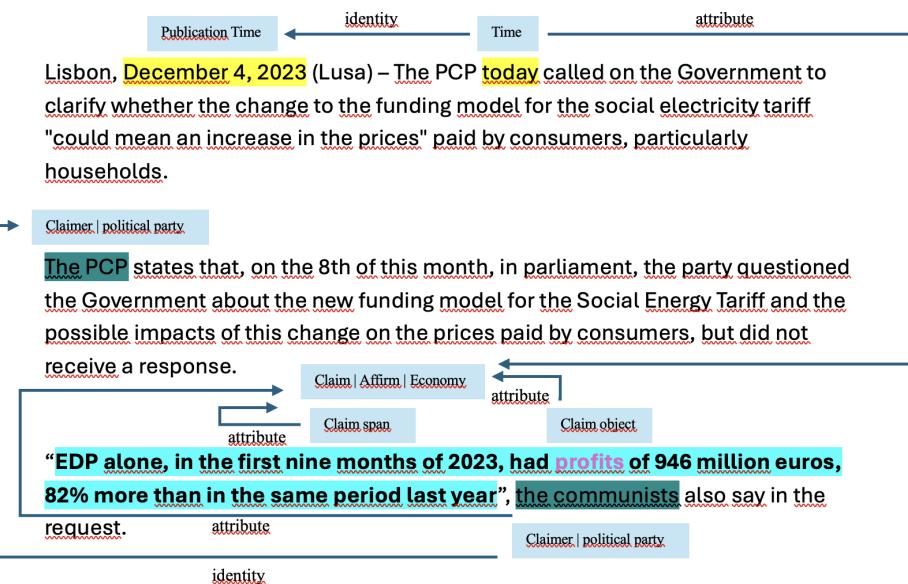


(Text: Lusa 38)

## B. Identity

Identity serves as a connecting element to maintain relationships between entities. For example, this link allows the connection of anaphoric pronouns to previous terms or expressions, directly or indirectly. This link is essential to understand these connections.

This structure establishes the link between the time and the date of publication of the article; a claim object that is outside the claim span; and the claimer if it is found in previous paragraphs.



(Text: Lusa 38)