From society to neology and lexicography
Relationships between morphology and dictionaries

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From society to neology and lexicography
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- Introduction
- Description of the morphemes: ciber-, e-, bio-, eco-, narco-
- Methodology
- Description of the dictionaries: Houaiss, Aulete, Michaelis
- Analysis of the data
- Final remarks
This paper aims at verifying if the most important online Brazilian Portuguese dictionaries include some of the neologisms identified in texts published from the 1990s until the 2000s, formed with the elements \textit{ciber-}, \textit{e-}, \textit{bio-}, \textit{eco-} and \textit{narco-}, which we refer to as fractomorphemes / fracto-morphèmes.

Three online Brazilian dictionaries were analyzed - \textit{Aulete}, \textit{Houaiss} and \textit{Michaelis}.
From society to neology and lexicography

Relationships between morphology and dictionaries

Objectives of this study

Our analysis takes into account these morphemes, observed since the 1990s, that have been reflecting new tendencies of contemporary global (and, in particular, Brazilian) society:

ciber-, e- (Information Technology, Computing);

bio-, eco- (healthy, sustainable life and society);

narco- (some of society problems).
From society to neology and lexicography
Relationships between morphology and dictionaries
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These morphemes have been termed differently.

Sometimes they are considered prefixes, because they occupy the first position in the word, but they have also received specific denominations. In English, they are referred to as *splinters*, a term thus defined by Bauer (2004, p. 95-96):

“A splinter is a fraction of a word, arising in a blend, then used as an affix to create more words, as *-nomics* in Reaganomics, Clintonomics, Thatchernomics and so on.”
According to Tournier (1985, p. 86), this term was first employed by Adams (1973, p. 188-98), in order to distinguish among affixes, compound elements and amalgamated elements. This author mentions, as an example, the word *microscope*, in which *-scope* is a splinter. Tournier termed them *fractomorphèmes*.

In this text, we have chosen to term these elements *fractomorfemas*, following the French tradition as well as some Portuguese and Brazilian authors, such as Lino (1990) and Bizzocchi (2021).
From society to neology and lexicography
Relationships between morphology and dictionaries
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Ciber-, e-, bio-, eco- and narco- represent different aspects of the society of this period and of the following decades:

- From the technological point of view, there is a development of already used technologies such as the Internet as well as the intensification of the use of mobile phones, which have become smaller.

- The possibilities of virtual communication are considerably expanded, which is expressed by the fractomorphemes ciber- (from Eng. Cybernetics (Houaiss)) and e- (< Eng. reduction of electronic (Houaiss)).
From society to neology and lexicography

Relationships between morphology and dictionaries

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- Regarding the environment, the 1990s were marked by the importance assumed by the Earth Summit, a conference organized by the UN in 1992, in Rio de Janeiro, also known as Eco 92, which was attended by members of several countries. The Eco 92 contributed to bringing together the concepts of society, economy and sustainability.

- This concern for the care of the environment was reflected in new usages of the elements *bio-* (< Greek *bíos*, ‘life’ (Houaiss)) and *eco-* (< Greek *oikos*, ‘house, household, family’ (Houaiss)).
From society to neology and lexicography
Relationships between morphology and dictionaries
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- The 1990s also saw a change in the relationship between drug trafficking and the policies of different nations regarding the circulation and use of drugs, which can explain the usage of *narco*.
From society to neology and lexicography
Relationships between morphology and dictionaries

Methodology

Our corpus of neologisms is based on the results of Project TermNeo (Observatório de neologismos do português brasileiro contemporâneo - Observatory of contemporary Brazilian Portuguese neologisms).

This is a project with the scope of collecting and investigating neologisms present in contemporary Brazilian press (newspapers and magazines) since January 1993.

This project was proposed, similarly to other neology observatories in the Romance languages, following the model of the Laboratoire d’Analyse Lexicologique du Centre d’Etudes de Linguistique Appliquée (University of Franche-Comté, Besançon, France), conceived by the lexicologist and lexicographer Bernard Quemada, in the early 1960s.
Similarly to other neology observatories in the Romance languages, Project TermNeo has considered the absence of a word in a set of contemporary lexicographic works and, more recently, online materials, as the most important criterion for a lexical unit to be classified as a neologism.

More recently, the development of Information Technology and Corpus Linguistics has allowed us to improve this methodology using automated techniques.
From society to neology and lexicography

Relationships between morphology and dictionaries

Methodology

Through the systematic observation of neologisms from 1993 onwards, we were able to identify the development of a recent pattern of word-formation in Brazilian Portuguese:

words formed with elements such as ciber-, e-, bio-, eco- and narco-, which share some traits with traditional prefixes, but nowadays are best described as fractomorphemes, as already mentioned in the introduction.

In this presentation, we will only study ciber-, eco- and narco-.
From society to neology and lexicography

Relationships between morphology and dictionaries

Methodology

In order to verify if contemporary Brazilian Portuguese dictionaries describe this new pattern, we chose three online dictionaries (described in the following section).

The following questions guided our research:

- Do the dictionaries include separate entries for these fractomorphemes? If so, do they mention their neological meanings?

- Do the dictionaries include neologisms formed with these fractomorphemes? If so, how do they describe their structure?
From society to neology and lexicography
Relationships between morphology and dictionaries
Description of the dictionaries

The three lexicographical works analyzed here, *Houaiss*, *Aulete* and *Michaelis*, are among the most important Brazilian Portuguese general dictionaries.

(i) they are among the largest dictionaries for Brazilian Portuguese which present more than 150,000 entries;

(ii) all three have online versions;

(iii) their latest versions include some neologisms.
From society to neology and lexicography

Relationships between morphology and dictionaries

Analysis of the data: ciber-

This morpheme has its own entry only in Houaiss (classified as a compounding element), which mentions many examples (some of them with their own entries): ciberataque, cibercafé, cibercolapso, ciberespacial (adjective), ciberespaço (noun), ciberpirata, ciberpiratária, ciberterrorismo, among others.

In Michaelis, the following words are included as entries: cibercriminoso, cibercultura, ciberdependência, ciberdependente, ciberespacial, cibermundo, among others.

Aulete includes, as entries, ciberespacial, ciberespaço, ciberladrão, cibermaníaco, ciberpornografia, ciberpropaganda, among others.
The morpheme **eco**- has a meaning close to that of **bio**-, referring to eco-friendly facts.

In neologisms formed with this morpheme, sometimes a playful aspect is also observed in words that suggest an exaggeration on environmental concerns: **ecobrigão** from **brigão** ‘a person who fights for anything’, **ecochato** from **chato** a ‘boring person’, **ecoxiita** from **xiita** ‘extremist, fundamentalist’…

It is included as an entry in Houaiss and Aulete. Houaiss describes its meaning as ‘house’, ‘habitat’, ‘family’; Aulete does the same, but also includes the neological meaning ‘ecological’, mentioning neologisms such as **ecoturismo** ‘ecotourism’ and **ecoturista** ‘ecotourist’.

All three dictionaries include entries for **ecoturismo** and **ecoturista**.
From society to neology and lexicography

Relationships between morphology and dictionaries

Analysis of the data: narco-

It is included as an entry in Houaiss and Aulete, but not in Michaelis.

Both dictionaries describe its meaning as ‘numbness’, but Aulete includes the neological meaning ‘related to narcotrafficking’.

All three dictionaries include an entry for narcotráfico ‘narcotrafficking’;

Houaiss and Aulete include also entries for narcoterrorismo and narcoterrorista;

Aulete also includes the neologism narcotúnel ‘narco-tunnel, tunnel used for drug trafficking’.
Now we are able to answer the questions we posed (1):

- Do the dictionaries include separate entries for these fractomorphemes? If so, do they mention their neological meanings?
- Houaiss and Aulete includes separate entries for all of them. Michaelis do not include separate entries for these fractomorphemes.

- Aulete is the only one that mentions the neological meaning of eco-:

  '(p.ext.) ecológico': ecobarreira, ecodesenvolvimento, ...
Now we are able to answer the questions we posed (2):

- Do the dictionaries include neologisms formed with these fractomorphemes? If so, how do they describe their structure?

All lexicographical works include at least one neologism for each fractomorpheme.
As already pointed out in Alves and Maroneze (2021), even though the dictionaries’ main goal is to describe individual lexical items, it does not prevent them from describing grammatical facts.

We conclude that the dictionaries here analyzed, while almost updated in terms of including neologisms, are still incomplete concerning the description of morphological elements.
From society to neology and lexicography
Relationships between morphology and dictionaries

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From society to neology and lexicography

Relationships between morphology and dictionaries

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