

CORPORART_GRAMM_PT_1.0

CORPORART Semantic Word Sketch Grammar for European Portuguese - Nouns, verbs & adjective CQL expressions for semantic relations extraction

Version 1.0

Portuguese FreeLing part-of-speech tagset (<https://www.sketchengine.eu/portuguese-freeling-part-of-speech-tagset/>)

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More info: Barbero, C. (2022). CQL Grammars for Lexical and Semantic Information Extraction for Portuguese and Italian. In:

Pinheiro, V., et al. Computational Processing of the Portuguese Language. PROPOR 2022. Lecture Notes in Computer Science, vol

13208. Springer, Cham. https://doi.org/10.1007/978-3-030-98305-5_35

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URL: https://clunl.fcsh.unl.pt/en/online-resources/outros/corporart_gramm_pt_1-0/

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*STRUCTLIMIT s

*DUAL

="%w" is troponym of/"%w" has troponym

#1 VERB_INFINITIVE_allcaps is VERB_INFINITIVE_allcaps

1:[word="[A-Z]*r"& tag="V.*"] [word="é"] 2:[word="[A-Z]*r"& tag="V.*"]

*DUAL

="%w" is troponym of/"%w" has troponym

#2 VERB_INFINITIVE is VERB_INFINITIVE

1:[word="[a-zA-Z]*r"& tag="V.*"] [word="é"] 2:[word="[a-zA-Z]*r"& tag="V.*"]

*DEFAULTATTR tag

*DUAL

="%w" is hyponym of.../"%w" is hyperonym of...

#3 HYPONYM é um/uma HYPERONYM

[tag="D.*"] 1:"N.*"

[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?[lemma="ser"] [tag="DI.*"] 2:"N.*"

*DUAL

="%w" is hyponym of.../"%w" is hyperonym of...

#4 HYPONYM é, portanto |então um tipo |exemplo |forma de HYPERONYM

1:"N.*"

[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?[lemma="ser"] [tag="F.*"]?[word="portanto | então"]?[tag="F.*"]?[tag="DI.*"]?[lemma="tipo | exemplo | forma"] [lemma="de"]?[tag="D.*"]? 2:"N.*"

*DUAL

="%w" is hyponym of.../"%w" is hyperonym of...

#5 HYPONYM enquanto HYPERONYM

1:"N.*"

[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?[tag="F.*"]?[word="enquanto"] 2:"N.*" [tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?

*DUAL

="%w" is hyponym of.../"%w" is hyperonym of...

#6 HYPONYM ou seja HYPERONYM

1:"N.*"

[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?[tag="C.*"]?[tag="F.*"]?[word="ou"]?[word="seja"]?[tag="F.*"]?[tag="D.*"]? 2:"N.*" [tag="A.*"]?

*DUAL

="%w" is hyponym of.../"%w" is hyperonym of...

#7 declarative verb HYPONYM como HYPERONYM

[tag="V.*"]?[tag="S.*"]?[tag="D.*"]? 1:"N.*"

[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?[tag="F.*"]?[word="como"]?[tag="F.*"]?[tag="D.*"]? 2:"N.*" [tag="A.*"]?[tag="S.*"]?[tag="N.*"]?

[lemma="apontar|apresentar|definir|descrever|identificar|indicar"]?[tag="D.*"]? 1:"N.*"

[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?[word="como"]?[tag="D.*"]? 2:"N.*" [tag="A.*"]?[tag="S.*"]?[tag="N.*"]?

[lemma="classificar|conceber|considerar|entender|qualificar"]?[tag="D.*"]? 1:"N.*"

[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?[word="como"]?[tag="D.*"]? 2:"N.*" [tag="A.*"]?[tag="S.*"]?[tag="N.*"]?

[lemma="tomar"]?[tag="D.*"] 1:"N.*"

[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?[word="como"]?[tag="D.*"]? 2:"N.*" [tag="A.*"]?[tag="S.*"]?[tag="N.*"]?

[lemma="aludir|confirmar|consagrar|reconhecer"][tag="S.*"][tag="D.*"]? 1:"N.*"
[tag="A.*"][tag="S.*"][tag="N.*"][tag="S.*"][tag="N.*"][tag="A.*"][word="como"][tag="D.*"]? 2:"N.*" [tag="A.*"][tag="S.*"][tag="N.*"]?

[lemma="estabelecer|impor|instituir|proclamar"][tag="D.*"]? 1:"N.*"
[tag="A.*"][tag="S.*"][tag="N.*"][tag="S.*"][tag="N.*"][tag="A.*"][word="como"][tag="D.*"]? 2:"N.*" [tag="A.*"][tag="S.*"][tag="N.*"]?

*DUAL

="%w" is hyperonym of.../"%w" is hyponym of...

#8 HYPERNYM especialmente | nomeadamente HYPONYM

1:"N.*"
[tag="A.*"][tag="S.*"][tag="N.*"][tag="S.*"][tag="N.*"][tag="A.*"][tag="F.*"][word="especialmente|nomeadamente"][tag="D.*"]? 2:"N.*"
[tag="A.*"][tag="S.*"][tag="N.*"][tag="S.*"][tag="N.*"][tag="A.*"]?

*DUAL

="%w" is hyperonym of.../"%w" is hyponym of...

#9 HYPERNYM em particular HYPONYM

1:"N.*"
[tag="A.*"][tag="S.*"][tag="N.*"][tag="S.*"][tag="N.*"][tag="A.*"][tag="C.*"][tag="F.*"]?
[word="em"][word="particular"][tag="D.*"]? 2:"N.*" [tag="A.*"]?

*DUAL

="%w" is hyperonym of.../"%w" is hyponym of...

#10 HYPERONYM ou seja HYPONYM

1:"N.*"
[tag="A.*"][tag="S.*"][tag="N.*"][tag="S.*"][tag="N.*"][tag="A.*"][tag="C.*"][tag="F.*"]?
[word="ou"][word="seja"][tag="F.*"][tag="D.*"]? 2:"N.*" [tag="A.*"]?

*SYMMETRIC

="%w" is synonym of...

#11 SYNONYM também dito | chamado | designado | denominado de | como SYNONYM

1:"N.*" [tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?
[tag="F.*"]?[word="também"][[lemma="dizer | chamar | designar | denominar"]][lemma="de | com
o"]?[tag="D.*"]? 2:"N.*"

*SYMMETRIC

="%w" is synonym of...

#12 SYNONYM (N) equivale a SYNONYM (N)

1:"N.*"
[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?[lemma="equivaler"][[
lemma="a"]][tag="S.* | D.*"]? 2:"N.*"
[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?

*SYMMETRIC

="%w" is synonym of...

#13 SYNONYM (V) equivale a SYNONYM (V)

1:"V.*"
[tag="N.* | V.*"]?[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?[lem
ma="equivaler"][[lemma="a"]][tag="S.* | D.*"]? 2:"V.*"
[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?

*SYMMETRIC

="%w" is co-hyponym of...

#14 CO-HYPONYM e outro CO-HYPONYM

1:"N.*" [tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?
[word="e"][lemma="outro"] 2:"N.*"
[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?

*SYMMETRIC

="%w" is co-hyponym of...

#15 CO-HYPONYM e|ou CO-HYPONYM são...

1:"N.*" [tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?
[tag="F.*"]?[lemma="e|ou"]?[tag="D.*"]? 2:"N.*"
[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?[lemma="ser"]?[tag="D.*|S.*|R.*|Z.*"]{0,2}[tag="N.*"]

*SYMMETRIC

="%w" is co-hyponym of...

#16 CO-HYPONYM ,|e CO-HYPONYM

1:"N.*" ([tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[lemma=","]){1,5}[word="e"] 2:"N.*"
[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?

*DUAL

="%w" is meronym of.../"%w" is holonym of...

#17 MERONYM pertence à categoria|família|espécie|classe|grupo HOLONYM

1:"N.*"
[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?[lemma="pertencer"]
[lemma="a"]?[tag="D.*"]?[tag="S.*"]?[lemma="categoria|família|espécie|classe|grupo"]?[tag="S.*"]?[tag="D.*"]? 2:"N.*"

*DUAL

="%w" is meronym of.../"%w" is holonym of...

#18 MERONYM faz parte de HOLONYM

1:"N.*"

[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?[lemma="fazer|ser"]
[lemma="parte"]?[lemma="de"]?[tag="D.*"]?[tag="S.*"]? 2:"N.*"

*DUAL

="%w" is meronym of.../"%w" is holonym of...

#19 MERONYM integra | insere-se | compõe | constituir | forma HOLONYM

1:"N.*" [tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?
[tag="F.*"]?[lemma="integrar|inserir|incluir|compor|constituir|formar"]?[tag="D.*"]? 2:"N.*"
[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?

*DUAL

="%w" is meronym of.../"%w" is holonym of...

#20 MERONYM forma | faz | é

parte | peça | fração | componente | constituinte | porção | percentagem de HOLONYM

1:"N.*"

[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?[lemma="formar|faz
er|ser"]?[tag="D.*"]?[lemma="parte|peça|fração|componente|constituinte|porção|percenta
gem"]?[tag="A.*"]?[lemma="de"] 2:"N.*"

[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?

*DUAL

="%w" is holonym of.../"%w" is meronym of...

#21 HOLONYM é | está constituído | composto | feito de | com | por MERONYM

1:"N.*"

[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?[tag="F.*"]?[lemma="ser|estar"]
[lemma="constituir|compor|fazer"]?[lemma="de|com|por"]?[tag="D.*"]? 2:"N.*"
[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?

*DUAL

="%w" is holonym of.../"%w" is meronym of...

#22 dividir HOLONYM em MERONYM

[lemma="dividir"][tag="D.*"] 1:"N.*"
[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?[lemma="em"][tag="D.*|Z.*"]? 2:"N.*" [tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?

*DUAL

="%w" is holonym of.../"%w" is meronym of...

#23 HOLONYM é o | um conjunto de MERONYM

[tag="D.*"] 1:"N.*"
[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?[lemma="ser"][tag="D.*"]?[lemma="conjunto"]?[lemma="de"] 2:"N.*"

*DUAL

="%w" causes.../"%w" is caused by-effect of...

#24 CAUSE causa | provoca RESULT-EFFECT

1:"N.*" [tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?
[lemma="ser"]?[lemma="causar|provocar"][tag="S.*|D.*"]{0,2} 2:"N.*"
[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?

*DUAL

="%w" causes.../"%w" is caused by-effect of...

#25 CAUSE resulta em RESULT-EFFECT

1:"N.*"
[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?[lemma="resultar"]?[lemma="em"][tag="D.*"]? 2:"N.*"
[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?

*DUAL

="%w" is caused by-effect of.../"%w" causes...

#26 RESULT-EFFECT resulta de CAUSE

1:"N.*"

[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?[lemma="resultar"]|[lemma="de"]?[tag="D.*"]? 2:"N.*"

[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?

*DUAL

="%w" is caused by-effect of.../"%w" causes...

#27 RESULT-EFFECT deve-se a CAUSE

1:"N.*" [tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?

[lemma="dever"]|[lemma="a"]?[tag="D.*"]? 2:"N.*"

[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?

*DUAL

="%w" is instrument for.../"%w" results from the use of...

#28 INSTRUMENT que é | tem utilizado | servido para EVENT

1:"N.*"

[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?[lemma="que"]?[lemma="ter | ser"]?[lemma="utilizar | servir"]|[lemma="para"] 2:"V.*"

*DUAL

="%w" is instrument for.../"%w" results from the use of...

#29 INSTRUMENT que é | tem utilizado | servido para RESULT

1:"N.*"

[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?[lemma="que"]?[lemma="ter | ser"]?[lemma="utilizar | servir"]|[lemma="para"] 2:"N.*"

*DUAL

="%w" is instrument for.../"%w" results from the use of...

#30 INSTRUMENT tem como | por função | objetivo | resultado | papel EVENT

1:"N.*"

[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"][[lemma="ter"]][lemma="como | por"][[lemma="função | objetivo | resultado | papel"] 2:"V.*"
[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?

*DUAL

="%w" is instrument for.../"%w" results from the use of...

*DUAL

="%w" is instrument for.../"%w" results from the use of...

#31 INSTRUMENT tem como | por função | objetivo | resultado | papel RESULT

1:"N.*"

[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"][[lemma="ter"]][lemma="como | por"][[lemma="função | objetivo | resultado | papel"]][tag="A.*"]?[tag="D.*"]? 2:"N.*"
[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?

*DUAL

="%w" is instrument for.../"%w" results from the use of...

#32 OBJETO/PACIENTE funciona como INSTRUMENTO

1:"N.*"

[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"][[lemma="funcionar"]
[lemma="como"] 2:"N.*"
[tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?

*DUAL

="%w" results from the use of.../"%w" is instrument for...

#33 EVENT implica|envolve INSTRUMENT

1:"V.*"

[tag="S.*"?[tag="N.*"?[tag="S.*"?[tag="N.*"?[tag="A.*"?[lemma="implicar|envolver"]][tag="D.*|Z.*"? 2:"N.*" [tag="A.*"?[tag="S.*"?[tag="N.*"?[tag="S.*"?[tag="N.*"?[tag="A.*"?]

*DUAL

="%w" results from the use of.../"%w" is instrument for...

#34 RESULT implica|envolve INSTRUMENT

1:"N.*"

[tag="A.*"?[tag="S.*"?[tag="N.*"?[tag="S.*"?[tag="N.*"?[tag="A.*"?[lemma="implicar|envolver"]][tag="D.*|Z.*"? 2:"N.*"

[tag="A.*"?[tag="S.*"?[tag="N.*"?[tag="S.*"?[tag="N.*"?[tag="A.*"?]

*DUAL

="%w" results from the use of.../"%w" is instrument for...

#35 EVENT usar|precisar|requerer|utilizar|necessitar|empregar INSTRUMENT

1:"V.*"

[tag="S.*"?[tag="N.*"?[tag="S.*"?[tag="N.*"?[tag="A.*"?[lemma="usar|precisar|requerer|utilizar|necessitar|empregar"]][tag="S.*"?[tag="D.*|Z.*"? 2:"N.*"

[tag="A.*"?[tag="S.*"?[tag="N.*"?[tag="S.*"?[tag="N.*"?[tag="A.*"?]

*DUAL

="%w" results from the use of.../"%w" is instrument for...

#36 RESULT usar|precisar|requerer|utilizar|necessitar|empregar INSTRUMENT

1:"N.*"

[tag="A.*"?[tag="S.*"?[tag="N.*"?[tag="S.*"?[tag="N.*"?[tag="A.*"?[lemma="usar|precisar|requerer|utilizar|necessitar|empregar"]][tag="S.*"?[tag="D.*|Z.*"? 2:"N.*"

[tag="A.*"?[tag="S.*"?[tag="N.*"?[tag="S.*"?[tag="N.*"?[tag="A.*"?]

*DUAL

="%w" has as characteristic.../"%w" is a characteristic of...

#37 SOMETHING é CHARACTERISTIC

1:"N.*" [tag="A.*"]?[tag="S.*"]?[tag="N.*"]?[tag="S.*"]?[tag="N.*"]?[tag="A.*"]?
[lemma="ser"][tag="R.*"]? 2:"A.*"