Text mining and defense inference in discourse analysis in psychology

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This study takes place in the context of the project of implementation of:

David Maldavsky's DLA methodology of discourse analysis
in
Horacio Saggion´s NLP GATE tool

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Subject of interest for the Argentine Secretary of Science and Technology which has subsidized this workshop

- Wishes and defenses in Freudian theory

- Operationalization of wishes and defenses in DLA method of discourse analysis

- Annotation of defenses in GATE NLP tool

CONTENTS

- Previously:
  discourse analysis was carried out in lineal fashion.
- Nowadays:
  because of the information overload, discourse analysis is selective
- The objective:
  a representative sample that complies with validity and reliability requirements

TEXT MINING in psychology discourse analysis

- Manual or IT supported
- Identify key information
- Consists in:
  - Extraction of relevant data
  - Classification of information according to patterns
  - Interpretation of results
  - Organization of results in data bases
  - Hypothesis construction and testing

Effectiveness of TM for discourse analysis in psychology

- Wishes
  - Survival
  - Species propagation, sex, love
  - Personal growth
- Wishes are components of Eros (life drive / libido)
- Normal defenses are a successful effort of Eros to neutralize the death drive / mortido
- Pathogenic defenses involve masochism and alteration of the self preservation drives

Theoretical basis for this project: Defense concept in DLA and Freudian theory

EGO	WISH	PATHOLOGICAL DEFENSES
Primitive reality	IL	- For wishes - Against affect Foreclosure of the affect
Auto-eroticism	O1	- For wishes - Against reality and Superego Disavowal, foreclosure of reality and ideal
Purified pleasure	O2, A1	
Definitive reality	A2, UPH, GPH	- For reality and Superego - Against wishes Repression

ALL EGO STRUCTURES - FUNCTIONAL DEFENSES

according to the goal, creativity, sublimation

Ego structures, wishes, defenses

- Defenses: transactions between wishes

to preserve the Ego from perceptions, affects, judgments

by refuting, abolishing the Ego (definitive, superego, primitive). regressing from PREC to UCC, changing goals of wishes

Transactions can be: successful – failed - both
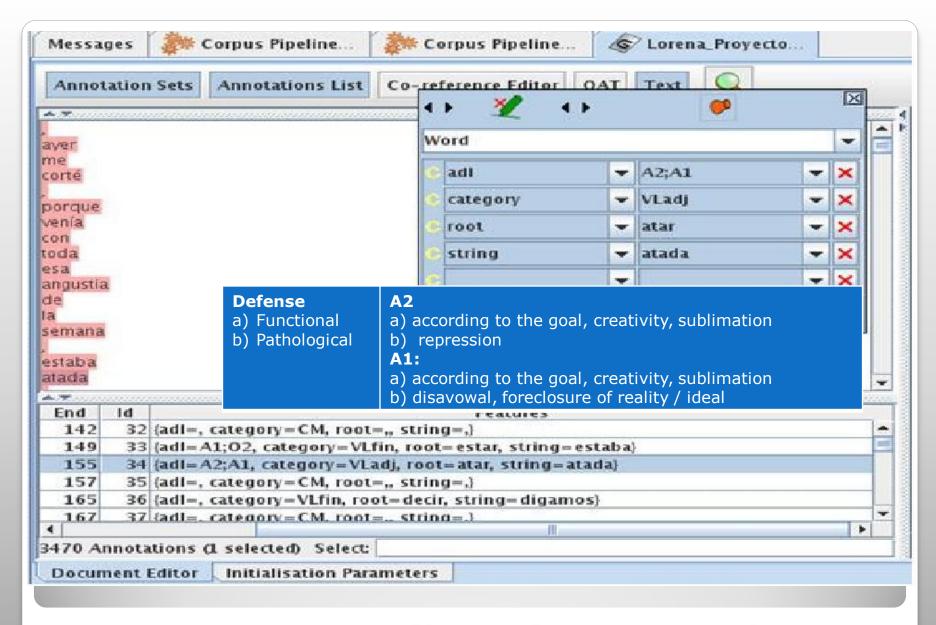
- Cluster model
  - Normal or functional defenses:
    - According to the goal
    - Creativity
    - Sublimation
  - Pathological defenses:
    - Repression (neuroses)
    - Disavowal (pathological character traits)
    - foreclosure of reality or ideal(psychoses)
    - Foreclosure of affect (traumatic and toxic pathologies)

DEFENSE
from theory to research practice

- Operationalization of wishes and defenses in the DLA
  - Wishes (attitudes, motivation, values, criteria)
    - Levels: words, speech acts, narration
  - Defenses
    - Levels: speech acts, narration
    - Normal or functional defenses: according to the goal, creativity, sublimation
    - Pathological defenses: repression, disavowal, foreclosure of reality or ideal / of affect
  - State of the defense: successful, failed, both
  - Function of defense: main, complementary

DEFENSE ANALYSIS in DLA methodology

DEFENSE as attribute in NLP tool GATE

- Words level
  - Orientation
- Speech acts level:
  - Proportion of A2, A1 appearing in vocabulary /discourse
- State of the defense
  - Can be inferred from the wishes present in the last speech act of each paragraph

Advantages for researchers

- THANK YOU