

Stage one: Become familiar with the semantic groups and types of the underlying models and the results of automatic annotation.

Overview Explanation Annotation Projects ▾

Kardiologie

Please first login in and then select the document ID.

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✓

Login

Select Section

- ☐ Befunde
☒ Diagnosen
☐ Zusammenfassung

Progress

Befunde

Diagnosen

23

Zusammenfassung

Annotation Visualization by Semantic Groups

- ☒ Physical Object
☒ Conceptual Entity
☒ Activity
☒ Phenomenon or Process
☒ Health State
☒ Factuality
☒ Temporal
[Check type definitions](#)

Document IDs

1

13

106

109

119

132

133

150

164

165

172

4
-UNK- Z.n. Gradient im LVOT von maximal 65 mmHg unter Valsalva -LRB- TTE v. <[Pseudo] 07/2028 > -RRB-
5
-Koronare Herzkrankung ohne höhergradige Stenosen -LRB- B-OTHER vom <[Pseudo] 05/11/2015 > -RRB-
6
- Z.n. tiefer Beinvenenthrombose links und Lungenembolie <[Pseudo] 2004>

1. Select the annotation project.
2. Login with user email and password.
3. Select the section to retrieve the corresponding text in the documents.
4. Switch the document ID to show the text of the selected section in each document.
5. Review the multi-layer entity annotations for seven different semantic groups listed on the left.
6. Click the [Check type definitions] button to learn more about each semantic type in different groups.

Stage two: Sentence-by-sentence modification of semantic type annotations for selected section and document.

Select Section

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Zusammenfassung

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- Z.n. tiefer Beinvenenthrombose links und Lungenembolie <[Pseudo] 2004>
7
- Z.n. Sigmoidektomie bei Sigmoiditis <[Pseudo] 06/ 2015 >
8
- Z.n. Hepatitis B -LRB- abgeheilt -RRB-

Inspect Semantic Type Scores and Annotate

Type score:

Tokens score interpretation:

Select the span by columns and semantic types by groups

Reselect columns

Verletzung oder Vergiftung - Hypertrophe, obstruktive Kardiomyopathie -LRB- Septumdicke max. 18 mm, TTE v. <[Pseudo] 05/ 2031 > -RRB-
Physiologische Funktion - Hypertrophe, obstruktive Kardiomyopathie -LRB- Septumdicke max. 18 mm, TTE v. <[Pseudo] 05/ 2031 > -RRB-
Pathologische Funktion - Hypertrophe, obstruktive Kardiomyopathie -LRB- Septumdicke max. 18 mm, TTE v. <[Pseudo] 05/ 2031 > -RRB-
Krankheit - Hypertrophe, obstruktive Kardiomyopathie -LRB- Septumdicke max. 18 mm, TTE v. <[Pseudo] 05/ 2031 > -RRB-
Psychische oder Verhaltensstörung - Hypertrophe, obstruktive Kardiomyopathie -LRB- Septumdicke max. 18 mm, TTE v. <[Pseudo] 05/ 2031 > -RRB-

Physical Object

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Activity

Phenomenon or Process

Health State

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T037: Verletzung oder Vergiftung

T039: Physiologische Funktion

T046: Pathologische Funktion

T047: Krankheit

T048: Psychische oder Verhaltensstörung

O: null

Semantic Groups

Hypertrophe

obstruktive

Kardiomyopathie

-LRB-

Septumdicke

max.

18

mm

TTE

Physical Object	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conceptual Entity	0	T184	0	T184	T184	0	0	T081	T081	T081	0	0	0	0	0	0	0	0	0
Activity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phenomenon or Process	T047	T047	T047	T047	T047	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Health State	0	T301	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Factuality	T401	T401	0	0	0	0	0	T401	T401	0	0	0	0	0	0	0	0	0	0
Temporal	0	0	0	0	0	0	0	0	0	T500	T500	T500	T500	T500	T500	T500	T500	T	

1 2 3 4 5 6 7 8 9 10 11

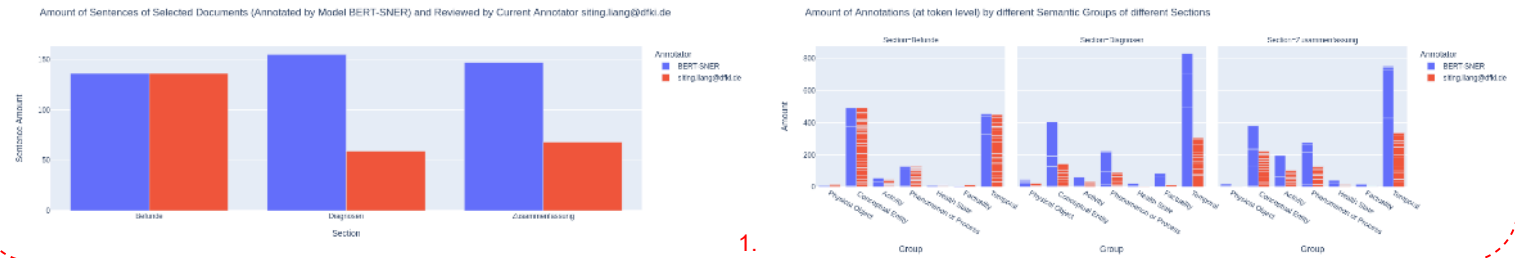
Save

Save revision of section_Diagnosen document_13 to local file for current annotator maximilian.klass@med.uni-heidelberg.de.

1. Select the document by ids.
2. Select one sentence from the text of the section of the selected document.
3. Change the semantic group for semantic type annotation revision.
4. Inspect the model prediction confidence for the preceding semantic types from the selected group.
5. Select one token (one column) or span (multiple columns) for annotation revision.
6. Select one semantic type to assign to the selected columns ("O:null" means no suitable semantic type).
7. Unselect the current columns.
8. Save the revision for the current document containing the selected section into local file.
9. Check annotation progress by sections.
10. Review the multi-layer entity annotations after revision sentence by sentence.

Stage three: Task overview and Realtime Classification Results

Task Overview



Classification Results

Physical Object					Conceptual Entity					Activity					Phenomenon or Process				
label	precision	recall	f1-score	support	label	precision	recall	f1-score	support	label	precision	recall	f1-score	support	label	precision	recall	f1-score	support
O	1.00	1.00	1.00	5449	O	1.00	1.00	1.00	4644	O	1.00	1.00	1.00	5512	O	1.00	1.00	1.00	5149
To17	1.00	0.99	0.74	29	To19	1.00	1.00	1.00	279	To69	1.00	1.00	1.00	57	To39	1.00	1.00	1.00	13
To14	1.00	1.00	1.00	11	To61	1.00	1.00	1.00	389	To61	1.00	1.00	1.00	131	To46	1.00	1.00	1.00	246
T209	1.00	1.00	1.00	11	T184	1.00	1.00	1.00	185	accuracy			1.00	5500	To47	1.00	1.00	1.00	86
				1.00	T201	1.00	1.00	1.00	13	macro avg	1.00	1.00	1.00	5500	To49	1.00	1.00	1.00	5
				5500					1.00	accuracy				1.00					5500
macro avg	1.00	0.99	0.93	5500	accuracy			1.00	5500	macro avg	1.00	1.00	1.00	5500	macro avg	1.00	1.00	1.00	5500
weighted avg	1.00	1.00	1.00	5500	macro avg	1.00	1.00	1.00	5500	weighted avg	1.00	1.00	1.00	5500	weighted avg	1.00	1.00	1.00	5500
				5500	weighted avg	1.00	1.00	1.00	5500					5500					5500

2.