

Information Retrieval

Exercise – Winter term 2025/2026

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Agenda

1. Retrieval & Pooling
2. Relevance Annotations
3. Access
4. Outlook

Retrieval & Pooling

- 10 retrieval systems will be used to retrieve documents for judgments
 - Different retrieval paradigms:
lexical retrieval (i.e., based on tokens & frequencies),
neural retrieval (i.e., based on semantics), query expansion, etc.
 - Systems are executed via the [TIRA](#) platform
 - The 10 systems will later be the baselines on the leaderboard
- Top-10 documents from each system will be “pooled”
i.e., the top-10 from each system is assessed
 - Pooled documents are deduplicated across systems [[lecture 2024: Pooling](#)]
 - We expect around 100–150 documents per topic
 - Corresponds to roughly 2–3 hours of annotation work

Relevance Assessments

- We judge only binary relevance:
judging a document as non-relevant (0) or relevant (1)
- Relevance depends on:
 - The topic's description and narrative.
- Relevance does **not** dependent on:
 - Credibility, i.e., non-credible documents can still be found relevant
 - Correctness, i.e., judge as if you did not know the correct answer
 - Why? Credibility and correctness can easily be misjudged
- Exception: Documents are automatically **not relevant** if they ...
 - ... are not written in English language
 - ... contain adult material or spam
 - ... are unreadable or broken

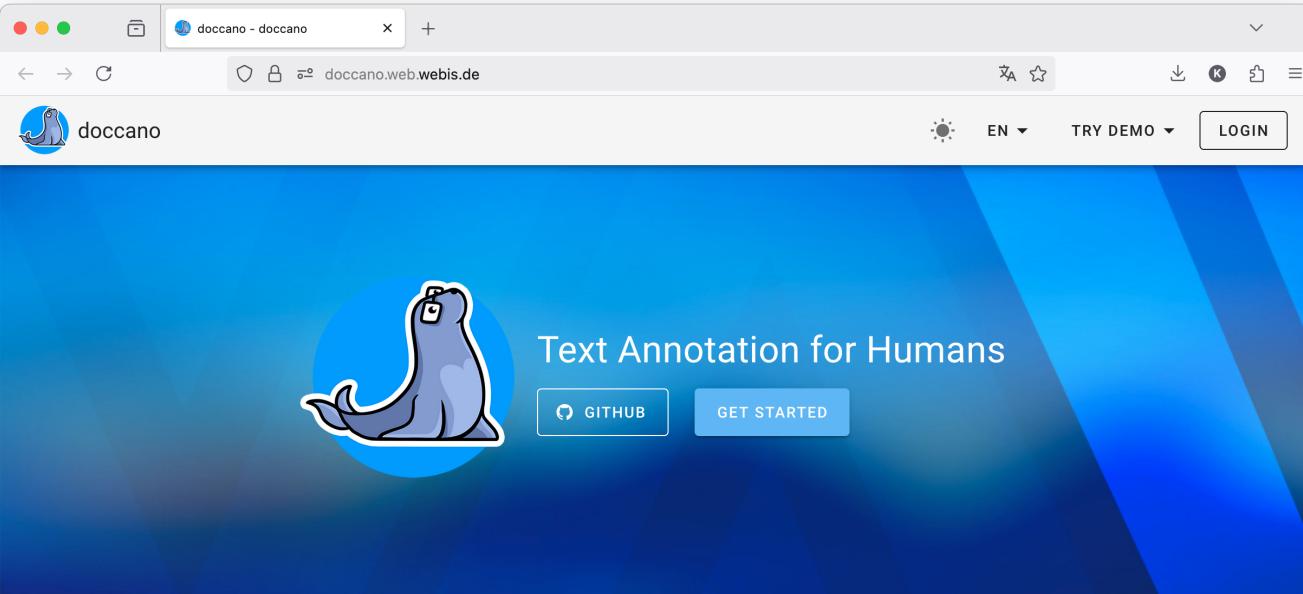
Access

- ❑ Relevance assessments will be handled through Doccano
- ❑ Each group will receive on Discord:
 - a Doccano account (linked with each topic's Doccano project)
- ❑ Documents to judge available: Tuesday, 11.11.2025
- ❑ Due Date: Thursday, 20.11.2025, 23:59
- ❑ Deliverable: Annotations finished on Doccano
- ❑ We can discuss problems in the next lab session:
Tuesday, 18.11.2025

Next Steps

Assignment

- Relevance assessments on [Doccano](#)



The screenshot shows the Doccano website homepage. At the top, there's a navigation bar with a logo of a seal, the word "doccano", language selection (EN), a "TRY DEMO" button, and a "LOGIN" button. Below the header is a large blue banner featuring a cartoon seal icon and the text "Text Annotation for Humans". It includes "GITHUB" and "GET STARTED" buttons. The main content area below the banner has a title "The best features" and three sections: "Team Collaboration" (with a network graph icon), "Any Language" (with a screenshot of a web interface), and "Open Source" (with a terminal window showing code). The entire page is styled with a clean, modern look.

The best features

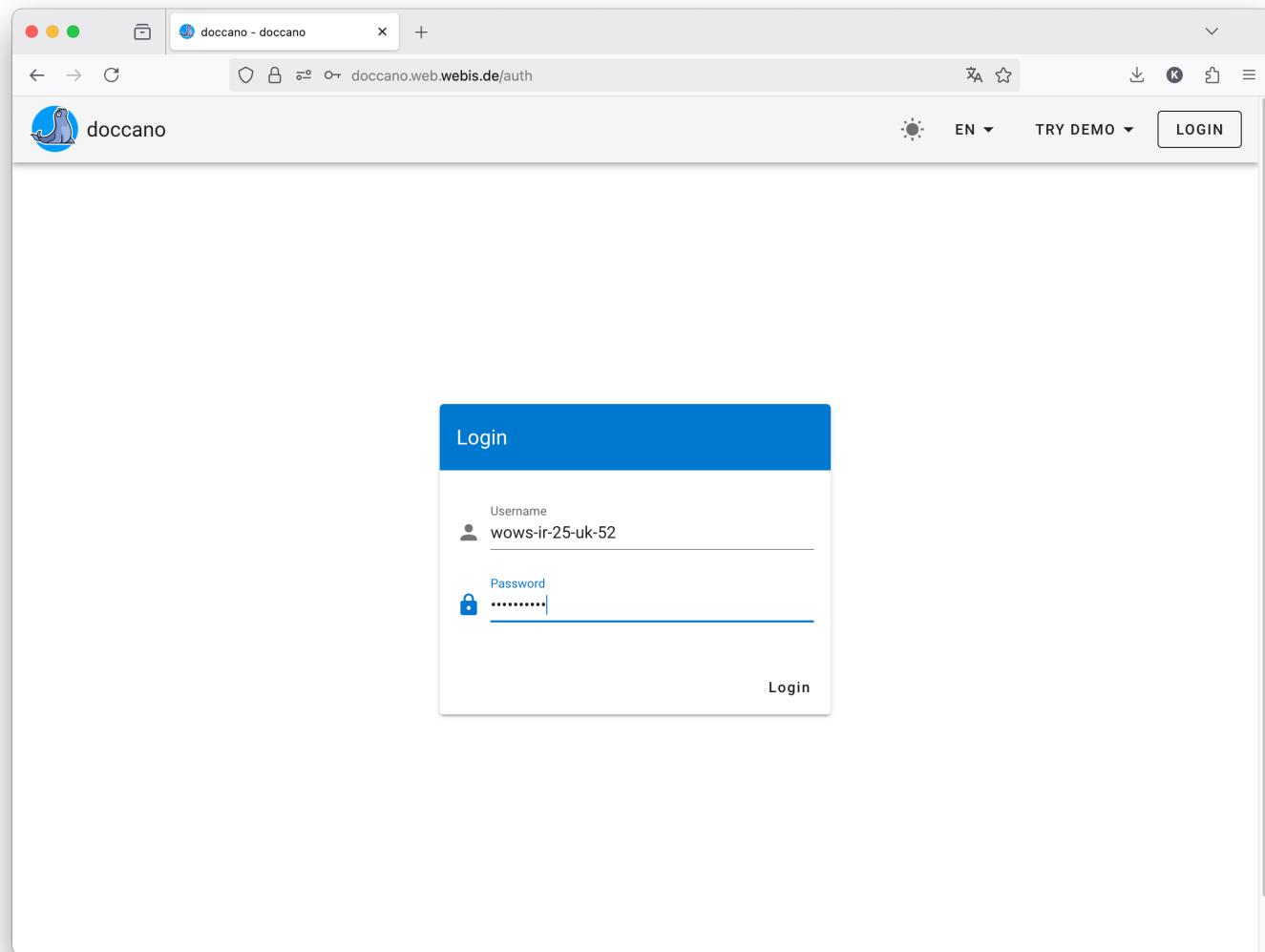
Team Collaboration

Any Language

Open Source

[Doccano website]

Doccano



[Doccano Login]

Doccano

The screenshot shows a web browser window titled "doccano - doccano". The URL in the address bar is "doccano.web.webis.de/projects?limit=10&offset=0&sortBy=createdAt&sortDesc=true". The page content is a table listing a single project entry:

<input type="checkbox"/>	Name	Description	Type	Created	Author	Tags
<input type="checkbox"/>	wows-ir-25-uk-52	Document relevance judgments. (Automatically generated by TIREx.)	DocumentClassification	2025/11/09 11:48	admin	teaching-ir

Below the table, there are pagination controls: "Rows per Page" set to 10, "1-1 of 1", and navigation arrows.

Example of the topic(s) view in Doccano.

The screenshot shows the Doccano web interface with the URL <https://doccano.webis.de/projects/453/dataset?limit=10&offset=0>. The page title is "wows-ir-25-uk-52". The left sidebar has "Start Annotation" and navigation links for "Home" and "Dataset". The main area displays a search bar and a table of retrieved documents.

ID	Status	Text	Metadata	Comments	Action
131192	In progress	5 Best VERIFIED Pet Friendly Hotels in Racine with Weight Limits & Pet Fees Pet Friendly Hotels in Racine, WI Looking for a pet friendly hotel in Racine, Wisconsin, United States to stay with your dog...	{"url": "https://www.petwelcome.com/pet-friendly-hotels/wisconsin/racine", "group": "ir-25-uk-52", "query": "pet therapy", "title": "5 Best VERIFIED Pet Friendly Hotels in Racine with Weight Limits & Pet Fees", "doc_id": "0094fb8655836742e9f743bb96f5eddba8231cf88b1c51279297be8090085f6", "query_id": 52, "narrative": "Relevant documents must include details of how pet or animal-assisted therapy is or has been used. Relevant details include information about pet therapy programs, descriptions of the circumstances in which pet therapy is used, the benefits of this type of therapy, the degree of success of this therapy, and any laws or regulations governing it. \\Documents on therapy for pets is irrelevant.", "description": "How are pets or animals used in therapy for humans and what are the benefits?"}	0	<button>Edit</button> <button>Annotate</button>
131193	In progress	Happy Tails Pet Therapy Upcoming Events top of page Upcoming Events Please select a training date below and RSVP. Orientation is the first step for those who are interested in learning more about Ha...	{"url": "https://www.happytailspets.org/events", "group": "ir-25-uk-52", "query": "pet therapy", "title": "Happy Tails Pet Therapy Upcoming Events", "doc_id": "009140dd0474496d9b2a9cabccbe414a70e04d124afe79dd9c5a90b1cadb926f", "query_id": 52, "narrative": "Relevant documents must include details of how pet or animal-assisted therapy is or has been used. Relevant details include information about pet therapy programs, descriptions of the circumstances in which pet therapy is used, the benefits of this type of therapy, the degree of success of this therapy, and any laws or regulations governing it. \\Documents on therapy for pets is irrelevant.", "description": "How are pets or animals used in therapy for humans and what are the benefits?"}	0	<button>Edit</button> <button>Annotate</button>
131194	In progress	The Pet Factor - Companion Animals as a Conduit for Getting to Know People, Friendship Formation and Social Support PLOS One Skip to main content Advertisement Browse Subject Areas ? Click through to...	{"url": "https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0122085", "group": "ir-25-uk-52", "query": "pet therapy", "title": "The Pet Factor - Companion Animals as a Conduit for Getting to Know People, Friendship Formation and Social Support PLOS One", "doc_id": "6e06f7f75a45f89469022a10d12c5d7d6a58686b2cfea47f48a73739f2440cef", "query_id": 52, "narrative": "Relevant documents must include details of how pet or animal-assisted therapy is or has been used. Relevant details include information about pet therapy programs, descriptions of the circumstances in which pet therapy is used, the benefits of this type of therapy, the degree of success of this therapy, and any laws or regulations governing it. \\Documents on therapy for pets is irrelevant.", "description": "How are pets or animals used in therapy for humans and what are the benefits?"}, {"url": "https://www.psychologytoday.com/us/blog/brain-chemistry/201806/does-	0	<button>Edit</button> <button>Annotate</button>

Example of the retrieved documents view in Doccano.

Doccano

The screenshot shows the Doccano annotation interface. On the left, there's a sidebar with 'Start Annotation' and navigation links for 'Home' and 'Dataset'. The main area displays a document about pet-friendly hotels in Racine, WI. At the top of this area, there are two buttons: 'Not Relevant (0)' with a red background and 'Relevant (1)' with a green background. The 'Relevant' button is selected. To the right of the document, there's a 'Progress' section. It shows a total of 63 documents, with 1 completed, resulting in a 2% completion rate. Below this, there's a table with key-value pairs for the document, including 'url', 'group', 'query', 'title', 'doc_id', 'query_id', 'narrative', and 'description'. The 'narrative' and 'description' rows contain explanatory text about pet policies.

Key	Value
url	https://www.petswelcome.com/
group	ir-25-uk-52
query	pet therapy
title	5 Best VERIFIED Pet Friendly Ho
doc_id	0094f8b655836742a9f743bb99
query_id	52
narrative	Relevant documents must includ therapy is or has been used. Relk therapy programs, descriptions c used, the benefits of this type of and any laws or regulations go irrelevant.
description	How are pets or animals used in benefits?

Doccano annotation view: Example of a non-relevant website that was retrieved. To use the green progress bar, make sure the button above Not Relevant (0) is selected (i.e., $\times \rightarrow \checkmark$).

The screenshot shows a web browser window with the title "5 Best VERIFIED Pet Friendly Hotels in Racine". The page features a large banner with two dogs playing in water. Below the banner is a search bar with the placeholder "Enter City or Destination" and a red "Go!" button. The main content area is titled "PET FRIENDLY HOTELS IN RACINE, WI". It includes a paragraph about finding pet-friendly accommodations and sorting options. A map of the Las Vegas area is shown on the right, with a blue button labeled "CLICK TO DISPLAY MAP". The bottom left corner contains a Google review snippet.

HOTELS TRIP PLANNER VACATION RENTALS DESTINATIONS PLACES SIGN UP CONTACT WEEKLY BONE PASSPORT

PETSWELCOME

Enter City or Destination

Go!

Home / Hotels / Wisconsin / Racine

PET FRIENDLY HOTELS IN RACINE, WI

Looking for a pet friendly hotel in Racine, Wisconsin, United States to stay with your dog, cat or other favorite animal? Browse the list below, which also includes pet friendly motels, bed and breakfasts, inns, and cabins & cottages. To make sure you find the perfect place, you can sort the listings by the type and size of your pet, as well as the amount of pet fee the lodging charges.

SORT BY

4 Star Rating by Mary Kestenbaum
07/19/23

Pet Type Weight Pet Fee

CLICK TO DISPLAY MAP

Diamond Enterprise Henderson North Las Vegas Arrolime

Example of a non-relevant website retrieved.

The screenshot shows the Doccano web interface with a dataset titled "wows-ir-25-uk-52". The left sidebar includes "Start Annotation" and navigation links for "Home" and "Dataset". The main area displays a table of retrieved documents:

	ID	Status	Text	Metadata	Comments	Action
<input type="checkbox"/>	131192	Finished	5 Best VERIFIED Pet Friendly Hotels in Racine with Weight Limits & Pet Fees Pet Friendly Hotels in Racine, WI Looking for a pet friendly hotel in Racine, Wisconsin, United States to stay with your dog...	<pre>{ "url": "https://www.petswelcome.com/pet-friendly-hotels/wisconsin/racine", "group": "ir-25-uk-52", "query": "pet therapy", "title": "5 Best VERIFIED Pet Friendly Hotels in Racine with Weight Limits & Pet Fees", "doc_id": "0094f8b655836742a9f743bb996f5ed6ba8231cf88b1c51279297be80900085f6", "query_id": 52, "narrative": "Relevant documents must include details of how pet or animal-assisted therapy is or has been used. Relevant details include information about pet therapy programs, descriptions of the circumstances in which pet therapy is used, the benefits of this type of therapy, the degree of success of this therapy, and any laws or regulations governing it. \\nDocuments on therapy for pets is irrelevant.", "description": "How are pets or animals used in therapy for humans and what are the benefits?" }</pre>	0	<button>Edit</button> <button>Annotate</button>
<input type="checkbox"/>	131193	In progress	Happy Tails Pet Therapy Upcoming Events top of page Upcoming Events Please select a training date below and RSVP. Orientation is the first step for those who are interested in learning more about Ha...	<pre>{ "url": "https://www.happytailspets.org/events", "group": "ir-25-uk-52", "query": "pet therapy", "title": "Happy Tails Pet Therapy Upcoming Events", "doc_id": "0d9140d0474496d9b2a9cabccbe41a70e04d124f4e79dd9c5a90b1cadb926f", "query_id": 52, "narrative": "Relevant documents must include details of how pet or animal-assisted therapy is or has been used. Relevant details include information about pet therapy programs, descriptions of the circumstances in which pet therapy is used, the benefits of this type of therapy, the degree of success of this therapy, and any laws or regulations governing it. \\nDocuments on therapy for pets is irrelevant.", "description": "How are pets or animals used in therapy for humans and what are the benefits?" }</pre>	0	<button>Edit</button> <button>Annotate</button>
<input type="checkbox"/>	131194	In progress	The Pet Factor - Companion Animals as a Conduit for Getting to Know People, Friendship Formation and Social Support PLOS One Skip to main content Advertisement Browse Subject Areas ? Click through t...	<pre>{ "url": "https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0122085", "group": "ir-25-uk-52", "query": "pet therapy", "title": "The Pet Factor - Companion Animals as a Conduit for Getting to Know People, Friendship Formation and Social Support PLOS One", "doc_id": "6e06f775a45f9469022a10d12c5d7de5868612cefa4748a73739f2440cef", "query_id": 52, "narrative": "Relevant documents must include details of how pet or animal-assisted therapy is or has been used. Relevant details include information about pet therapy programs, descriptions of the circumstances in which pet therapy is used, the benefits of this type of therapy, the degree of success of this therapy, and any laws or regulations governing it. \\nDocuments on therapy for pets is irrelevant.", "description": "How are pets or animals used in therapy for humans and what are the benefits?" }</pre>	0	<button>Edit</button> <button>Annotate</button>
			Does Animal-Assisted Therapy	<pre>{ "url": "https://www.psychologytoday.com/us/blog/brain-chemistry/201806/does-animal-assisted-therapy-work-the-pet-human-bond", "group": "ir-25-uk-52", "query": "pet therapy", "title": "" }</pre>		

If you select the button above Not Relevant (0) after assessing a retrieved document, the document will appear as Finished in the document overview.

Any questions?