

User guide:

Understanding and using RAx for effective research.

Sign up and get started

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	Agile	Password *
	Already have an account? SIGN IN	Sign in instead
	Copyright © 2018 - Rygbee Inc., Delaware, USA	Home FAQ Privacy Terms Activate Windows Go to Settings to activate Window

To start using RAx for your research, you need to sign up on our website (*https://raxter.io*). We *recommend you to sign up using your institutional email* to get benefits of institutional features:

Access your institute's library anywhere from RAx Get personalized updates of the material in the library relevant to your current work RAx will be available for free for individuals if your institute subscribes to our service



Verify your email using confirmation code sent to your registered email id.

*in case you don't receive any email please check your spam or promotion folder in your inbox

Provide few details to make RAx more personalized and useful

Hello Souris We need some informati	sh, Welcome to RAX!			
1 Institute detail			Hello Sourish, Welcome to We need some Information, to give you personalize	RAx! ed assistant
 How would you describe yourself? It will help us to find right suggestion for you. 	2. In which institute you are? So that we can provide you institute-wide feature	26	Institute detail	2 Research interests
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O Other				
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May Be Later	N	EXT		FINISH

Create a project on RAx



Projects on RAx are like folders to keep your research work organized in one place.

= RAx		÷
Projects		ADD PROJECT
	Add a project Title * Description CANCEL CREATE PROJECT CREATE PROJECT	 Topic/problem you are working on or want to start Short description about this project

Every project on RAx has two components (more to come in future :)



1) Literature

'Literature' is a directory of all the reading material (journal articles, conference papers, survey papers, etc.) that you upload or import into this project.

2) Drafts

'Drafts' is a directory of all the documents (observations, ideas, research questions or rough draft of your paper) that you create or import as you study or experiment during the research lifecycle.



Add literature into your project

Add literature into your project

To add any literature into a project, click on "Add Literature" button.



1) File upload from your computer



- Total upload size limit for free plan is 20MB
- Supported formats: .pdf, .fdf, .xfdf, .xfae
- 2) From URL (using PDF URL ending with .pdf)



- 3) Import from google drive (*coming soon)
- 4) Import from a reference manager (eg. Mendeley, zotero, citavi) (*coming soon)

Add literature into your project

'Double click' on a paper or draft to open it.





Basics of RAx web-app interface

Basics of RAx web-app interface



*Each component is explained in detail in later sections of the manual.

Quickly get around in RAx

Navigate throughout RAx web-app



Swiftly navigate through projects





Read, highlight and annotate literature

Read in expanded view

E Literature			1
	Tokyo 113-8656, Japan	131 Princess Street, Manchester M1 7DN, UK	QQ
	Abstract	Swales, 1990; Orăsan, 2001). The American Na- tional Standard Institute (ANSI) recommends au-	
	OBJECTIVE: The prior knowledge about the rhetorical structure of scientific abstracts is useful for various text-mining tasks such	thors and editors of abstracts to state the <i>purpose</i> , <i>methods</i> , <i>results</i> , and <i>conclusions</i> presented in the documents (ANSI, 1979)	
	as information extraction, information re- trieval, and automatic summarization. This paper presents a novel approach to cate-	The prior knowledge about the rhetorical structure of abstracts is useful to improve the performance of various text mining tasks. Margu (1909) proposed	
	gorize sentences in scientific abstracts into four sections, <i>objective</i> , <i>methods</i> , <i>results</i> ,	an extraction method for summarization that cap- tured the flow of text, based on Rhetorical Struc-	
	and conclusions. METHOD: Formalizing the categorization task as a sequential label- ing problem, we employ Conditional Ran- dom Eidds (CRES) to annotate section la-	ture Theory (RST). Some extraction methods make use of cue phrases (e.g., "in conclusion", "our in- vestigation has shown that"), which suggest that	
	bels into abstract sentences. The train- ing corpus is acquired automatically from Medline abstracts. RESULTS : The pro-	the rhetorical role of sentences is to identify im- portant sentences (Edmundson, 1969; Paice, 1981). We can survey the problems, purposes, motivations, and previous approaches of a research field by read-	
	posed method outperformed the previous approaches, achieving 95.5% per-sentence accuracy and 68.8% per-abstract accuracy.	ing texts in background sections of scientific papers. Tbahriti (2006) improved the performance of their information retrieval engine, giving more weight to	
	showed that CRFs could model the rhetor- ical structure of abstracts more suitably.	sentences referring to <i>purpose</i> and <i>conclusion</i> . In this paper, we present a supervised machine-	Activ Go to do

Click on collapse button to shift to expanded reading view

Highlight and annotate literature

Select the text which you want to highlight or annotate and select the respective option from the pop-up menu.



Behind the scenes

RAx takes into account all the highlight and annotations you make on a paper to improves the recommendation.

Review the details of the article

Review the details of the article



You can assign a Creative Commons license to your review of the paper. It can be helpful in the cases of claiming originality of your work.

distribute non-derivative copies of your work.



Review the literature

effectively

Customizable review templates

RAx provokes critical paper reading for the users by going beyond general annotations. Every paper has a question-answer format review document attached to it. The default review template comprises of general research-methodology questions that are independent of the field of research.



Note: Always make sure to apply a CC license (from details panel) to your review of the literature to avoid any copyright issues in the future.

Best practices for using Review templates

- Customize the set of questions specific to your field or problem statement.
- To make the most out of Review template, ask if your advisor can provide you with the set of questions that should be answered while reading the paper. This will push you to read & understand papers more thoroughly.

Key benefits of Review templates

- prompts you to ask the right questions while reading a paper
- structure your critical thinking in an easy to retrieve way
- don't lose the context of your understanding or doubts again
- have a focused discussion with your supervisor or team

Get the right resources to push your research forward

Get the right resources to push your research forward

Easily discover relevant materials to read

One of the major benefits of RAx is its **smart recommendations**. RAx scans the paper you upload, matches it with 160M+ (...and increasing) research papers indexed in our databases, and recommends you the most relevant and useful papers.



Fine-tune the recommendations



Get quick conceptual clarity of concepts in the

paper

Find supplementary resources using selective rygging

RAx recommendations are not limited to research papers only. It also suggests supplemental video lectures, courses, wiki articles, blogs, and books* for conceptual clarity while reviewing a new paper.



Key Benefits of selective rygging of supplementary resources

- Get quick and contextual clarification when stuck on a topic/section of the paper under review
- Helps you in keeping track of "resources" used during the paper review.
- Stay updated with recent developments related to topics mentioned in the paper.

***Note:** If your institute has procured RAx suite, with student demand we can also add library books and e-books along with other supplementary resources.

Attach and organize useful content & references easily

Attach and organize useful content & references easily

For each paper or draft on RAx, you can bookmark resources relevant to it in the "Attachments" section.



- Useful recommendations from RAx, that you may want to refer later
- Snaps of your blackboard discussions around the literature you are reading
- Any external web link or pdf document relevant to literature you are currently reviewing, etc.





2 Adding external attachments



attachments by their category for quick retrieval

Difference between 'Attach' and 'Add to Literature'

For research article results, in addition to 'Attach', there is one more option: 'Add to literature'.



2 Research articles that are added through **Add to Literature** option can be found in the Literature list of the respective project folder.

0	Pitfalls in applying text mining to scientific literature Updated : Jan 16, 2019 Created : Jan 16, 2019		:
0	Sentiment Analysis and Summarization of Twitter Data Updated : Jan 17, 2019 Created : Jan 17, 2019	🛆 ADD PDF	:
▣	Columbia NLP: Sentiment Detection of Sentences and Subjective Phrases in Social Updated : Jan 18, 2019 Created : Jan 18, 2019	🛆 ADD PDF	:
-	Force-interactive patterne in immigration discourse: A Cognitive Linguistic appr		

3 Add to Literature adds the research article as a URL and not as a PDF file. Click on 'Add pdf' option to find the full-text or upload the corresponding pdf.

e	Updated : Jan 10, 2019 Created : Jan	10, 2019	idiysis using subjectivity summarization bas		:
	Techniques for Sentiment A Updated : Jan 16, 2019 Greated J	Add Po	lf ×	🗙 ADD PDF	1
0	Pitfalls in applying text min Updated : Jan 16, 2019 Created Ja	•	Defined linked vet		:
Ð	Sentiment Analysis and Sur Updated : Jan 17, 2019 Created Ju		Please upload the pdf file for this paper to proceed further. You might find the full-text here [2]	ADD PDF	:
0	Columbia NLP: Sentiment D Updated : Jan 18, 2019 Greated Ju			G ADD PDF	:
0	Force-interactive patterns in Updated : Feb 01, 2019 Greated Feb	immigrati 01, 2019	on discourse: A Cognitive Linguistic appr		:

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Work faster with collaborators

Work faster with collaborators

With the new **Team Feature** (Beta version) on RAx, you can share the projects with your advisor, collaborators, teammates or friends who are working (or has worked) on similar projects. Sharing your work-in-progress help to:

- keep everyone on the same shared perspective
- get and give timely feedbacks
- get faster understanding of concepts
- have more productive discussions
- save you from annoying email chains.

Collaborative learning through sharing literature

For a faster understanding of complex concepts within papers, you need help from your advisor, peers or an expert you know. The **Team feature** facilitates you to quickly have in-depth contextual discussions on the paper. You can even form study-circles around research papers you are reviewing thoroughly.

Share the literature (and your review of it)





You can access the articles that are shared with you by others access from "Shared with me" section. The collaborators can:

- read the shared literature on RAx
- comment on it
- see your 'Review' of the paper in read-only mode

Work faster with collaborators

2 Start a discussion thread on the literature

Considering the complexity of research articles, the task to decipher the text becomes challenging and time consuming for students. This is where the Team feature comes handy.



Select the text you want to comment on

recall, mean F-score, and MRR) on two me
×
0
CANCEL
KELATED WORK

Enter your comment in the dialogue box

 Discussion thread 100 Rahul Roy Mar 04, 2019 QQ Scholarly discovery engines have certain intrinsic limitations. They are not sensitive to how the res aut ka cha nmendation 🧾 Prakash Bharti Mar 04, 2019 on Ş I reply W Prakash Bharti Mar 04, 2019 ers (who have more expertise in *1 luged pani heir research students) can only [2]. The papers that a researcher w s/he germinates and enhances ٢. R Rahul Roy Mar 04; 2019 ality of the subsequent citations mqtt works on publish-subscribe stratergy , the quality of suggested discovuirement for any scholarly article Mar 04, 2019 Yash Patadia ave certain intrinsic limitations. research needs of a researcher ch lifecycle. Secondly, discovery Write your comment * ubjective sense of the usefulness ross researchers having different of research. Also, in many situaĸ Reply y difficult to express with simple mah af tha tima tha na >

Students can share the paper with their advisor, peers or other experts to:

- understand concepts within the paper
- learn from senior's experience with a particular topic
- can get more efficient alternatives to method/experimentation/analysis through
- suggestions from advisor or experts.
- find other useful reading that collaborators can mention in comment
- develop their hypothesis for future work
- ...and refine and revise their research.

Authors can share their paper with other professors and experts to receive feedback, discover related content and even find a future collaborator.

Benefits of sharing your review of the literature

We recommend you to share the review of key literature with your advisor or experts for a **faster and thorough review process**.

By sharing the review and corresponding literature, you can have focused and meaningful discussions with your advisor. Instead of wasting a lot of time in recollecting what was the last discussion about and bringing the advisor on the same page as you are.

Also, the advisor can proactively guide you before you wander into a direction only to change it after weeks of work.

Document your ideas, thoughts and work-in-progress

Document your ideas, thoughts and work-in-progress

Research is never only about reading, learning and collating existing work. Creating your own insights, new ideas, observations, questions, and perspectives is an equally important part of the research process.

Knowledge acquisition and knowledge creation are tightly coupled process, and RAx is designed to facilitate that. That is why within every project along with a Literature library you have a directory of **'Drafts'**.

Drafts are made to facilitate you quickly capture

- ideas that you get during reviewing the literature
- observations
- initial thoughts about the experimental setup
- derivative research question
- hypothesis
- blogs related to your work
- a rough outline of the final draft of the paper you will be writing

...and pretty much anything else you would want to document.



With RAx you can see and quickly switch between multiple drafts in a single tab. No need to switch to another app for quick documentation and no more clutter of multiple tabs. The rich text editor allows you to write detailed and complex documents with ease. You can add lists, images, web links, video links, code snippets, and Latex formulas.

Note: Always make sure to apply a CC license (from details panel) to your drafts to avoid any copyright issues in the future.

	Tags
	No tags found. 🖍
←	License your work
	CC : Attribution, non-commercial 🖍

Do a thorough literature search for your problem statements

Apart from quick and easy documentation, Drafts can be used to do a thorough literature search for your chosen problem statement. Create a draft and jot down your problem statement or abstract or rough idea that you want to pursue.

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•	Scholarly article recommendation has recently been of much research focus. There are some key challenges that make the problem intrinsically difficult to solve. To begin with, the research needs of a researcher evolves over time during his/her research life cycle. Secondly, the sense of the usefulness of recommended articles is subjective (i.e. varies from one researcher to the other). Third, in many situations, the research need is extremely difficult to express with simple keyword-based search queries. Finally, much of the time the need is triggered only after the researcher is exposed to thought provoking resources. All these factors make it extremely difficult to predict how a researcher is going to react to a certain set of recommended articles. To deal with them, we propose a novel Q-learning based personalized recommendation system. An exploitation strategy, based on the active detection of user selection pattern history, is taken by the system agent for generating a recommendation list. Actions are taken based on this behavior, and penalty (or reward) is then assigned to the actions taken based on the post-recommendation feedback of the user. Also, to provide new and potentially interesting articles, the system adopts an effective exploration strategy.	\$ " I	Hershith Sahliwa We design a reco papers based on feedback to th Attach A A A Domain Ontolo Recommendat Collaborative filte being successful recommendati Attach A A Research On T Personalized R System Based Clan Wang, Jin Z There are some l adaptability, Initia limitationa Vie Attach A A	In Sourish Dang mmender system topic-modeling. View More dd to literature gy-Based Pers- ion Research Sun, migtechniques a view More dd to literature her Model Of tecommendati On Multi Agen hen Ping, acks of intelligen tive and process w More dd to siterature to achivate Wi	upta 2011 In for research The users Sonalized 1 2011 are currently alized In Requet Requet Cont In 201- In 20
	 Write the problem statement that you will be working on Select the type of resource you want to explore 	↓ 3	Explore recomm and atta for later	releval nendat nch the refere	nt ions m nce



Stay up to date with the world around your research interests and project work. RAx constantly scan the internet to bring you the most current and relevant content in **Discover** page. You can access Discover page from top left menu icon.

You can search and discover not only **research papers** but also **latest blog articles**, **online courses**, and **news**. If you belong to the institute that has subscribed to our service, you can **easily access all the content of your institute's library** from 'Discover' page.



1 Feeds - A collection of online resources that are hand-picked and indexed by our team. Search from some of the finest sources across the web that are vital for staying updated in today's academia.

Institute Library* - If you belong to the institute that has subscribed to our service, you can easily access all the content of your institute's library from here.

Bookmarks - Access all the bookmarked resources from Feeds and Library.

- 2 Search and filter content Enter your query into the search box and date wise filter the results.
- 3 **Resource categories -** Select the type of resource you want to search.

Search query - By default the results are shown on the basis of your areas of *interests*. When you enter a search query, RAx shows you results relevant to your query.

5 Results - Click on the title to go to the source website. Bookmarks to read it later. For subscribed Institutes, an individual can 'Request' the full-text of important research papers from the librarian directly from RAx, with just one-click.

Go beyond simple keyword search

Whenever you enter a search query in Discover page, RAx enriches the query by identifying relevant concepts and resources that may not have the exact keywords in it but is related to what you are searching for. This significantly increases the chances of discovering useful content that otherwise would be hidden.

Following example shows how search in RAx is different than traditional discovery engines used by libraries.

Search query: Boltzmann machine (it is a type of stochastic recurrent neural network widely used in machine learning and artificial intelligence applications).

Behind the scenes

RAx uses semantic layering over keyword search to enrich the discovery of content. It identifies topics peripheral to the topic/concept being searched and shows you all the relevant resources.



A normal discovery engine returned no result since it could not find any resource with the exact search keywords. RAx identifies concepts relevant to Boltzmann machine and shows books available in the library, which otherwise could not have been found by students.

Faster content discovery in the early stage of research

Most of the traditional discovery engines use keyword match and advanced binary filters. These tools are not very useful in the early stage of research when we don't know what exactly to search for. RAx solves this issue using **"Search by your papers"** functionality.

1 When you click in the	Feeds	
"Search by your papers" option in the dropdown.	Q Search by title or paper	Ŧ
Select this option.	Q Search by your papers	S

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Projects >

Select the project which contains the required paper.



Select a paper to discover content based on the concepts within it.

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Test Project Updated: Mar 18, 2019 Created: Mar 18, 2019 Research Paper Information Extraction Updated: Mar 14, 2019 Created: Jul 30, 2018 Biomedical Text Mining Updated: Mar 04, 2019 Created: Mar 04, 2019 Law and national economy Updated: Peb 19, 2019 Created: Feb 19, 2019 Time traveling Updated: Feb 09, 2019 Created: Feb 09, 2019	↓ ▼	ance in in	Projects > Research Paper Information Extraction Updated: Dec 25.2018 Created: Dec 25.2018 Robust Sentiment Detection on Twitter from Biased and No Updated: Dec 25.2018 Created: Dec 25.2018 Bookinary Convolutional Neural Networks for Sentiment Analysi Texts Updated: Nov 23.2019 Created: Nov 23.2018 Neural Networks for Joint Sentence Classification in Media Abstracts Updated: Nov 20.2019 Created: Aug 01.2018 BOOKIMARK < Image: Nov 20.2019 Created: Nov 15.2018	pisy Data is of Short cal Paper ance in i
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Benefits of using "Search by papers"

- In early stages of research or whenever you don't have exact keywords to search for, the papers that you have contains keywords or topics or concepts based on which you can discover further leads. Thus "Search by papers" facilitates faster discovery of content.
- The results you find via "Search by papers" can trigger new direction of thinking or can open up a perspective that you otherwise would not have thought about. This is important since many of the great research breakthroughs were triggered by unanticipated cue.
- Also, "Search by papers" is helpful in staying up-to-date with the latest work and activity around the topics that you are reading in the important papers.

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Benefits of Institutional plan

Benefits of Institutional plan

If the institutet to which you belong has integrated RAx with the institute library, then you have access to some additional benefits to make the best use of your institute library.

Clean interface for library search - from anywhere



In the "Discover" page, click on Institutute Library tab to search through the library content. If you have your institute email id verified, you can access library content from anywhere (inside or outside of institute campus) through RAx. **Search and bookmark library content with ease.**

Get personalized updates from library

Do you just ignore the new-arrivals mails from library? Or wish that library mailers were more relevant for you. With your institutes library integrated in RAx, you will only get update about the content that matters to you.

RAx scans through the library and recommends you most relevant content based on your project and areas of interest.

Institute Library				
Q Search by title or paper				
RESEARCH PAPERS BO	OKS E-BOO	KS THESIS	NEW ARRIVALS	
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Benefits of Institutional plan

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Click on 'Show all' to see all the new arrivals for a particular week

One-click request for content

With RAx, requesting paid-content and issuing library material is just a work of one click. No more copying meta-data of the material you want and writing a mail to librarian.

Ū	B	Q Search by title or paper
Literature Results	FINE-TUNE	RESEARCH PAPERS BOOKS E-BOOKS THESIS NEW ARRIVAL
Face Recognition Machine	e Vision System	Showing result based on areas of interests : artificial intelligence, natural language processing
Sudhanshu Tripathi, Leena Sir	ngh, 2013	
AbstractEigen space-based fa	ce recognition	Artificial intelligence
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2 Click on 'Issue' button to reserve the

book for yourself.

1 If you get a useful recommendation but the paper is not accessible for free, click on the **'Request'** buttton the result card.

This will send a request mail to your institute librarian on behalf of you via RAx. You can access the pdf sent by the librarian in the replied email.