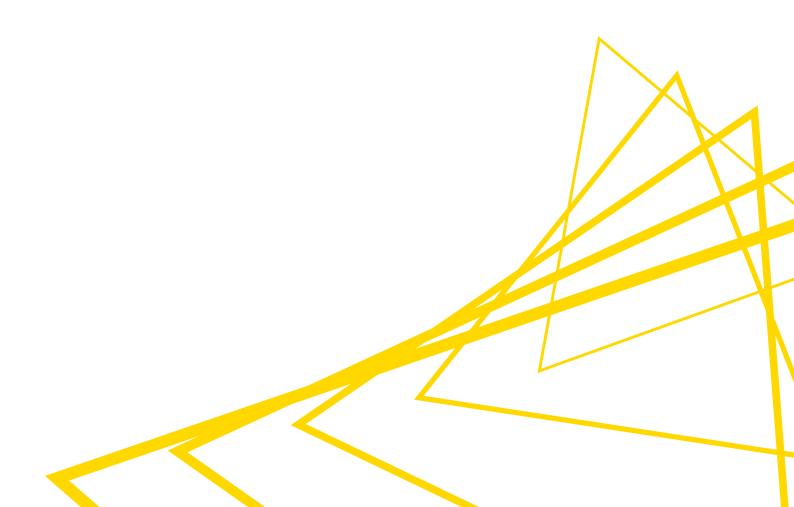


# **KNIME Community Hub User Guide**

KNIME AG, Zurich, Switzerland Version 1.11 (last updated on 2024-08-15)



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## Introduction

KNIME Community Hub is a KNIME-managed Hub instance.

It is a central place to collect the common knowledge base among the KNIME Community and it has search functionalities as well as collaboration capabilities.

On KNIME Community Hub you can search for nodes, extensions, components, and workflows made available by the community.

You can use these as blueprints and building blocks in KNIME Analytics Platform, and build workflows to solve your data science use cases.

KNIME Hub can also be used to upload and organize workflows in a central place, and to collaborate with other users on your projects.

Via KNIME Hub you can:

- Find workflows, components uploaded by KNIME Community
- Upload and organize your workflows and components in projects
- Create and manage projects
- · Collaborate with other users on your projects

For more information about Team plan, the paid service offered on KNIME Community Hub that allows you to create a team, collaborate on a project with your colleagues, and execution capabilities, refer to the Team Plan on KNIME Community Hub Guide.

## Search items and use them in KNIME Analytics Platform

You can find the KNIME Community Hub at the following address:

#### https://hub.knime.com

In the browser, you will access the KNIME Hub home page shown in Figure 1.

	Hub				Pricing About <b>: Signm</b>
	Acces	s <u>1128 v</u>	CO KNIME Commun vorkflows, <u>161 components</u> and <u>247 exter</u> IME and our community. No registration re	nsions	lub
	Q	browse	curated collections of workflows and resou	IFORE	
2	KNIME for Geospatial Analysis           Harvards Detter for Geographic Analysis (DGA) and KNIME have teamed up to enable non-expert users to unlock the potent.           Anime	69	KNIME for Snowflake Users Enable seyone in the organization - whether data experts, data analysts, burness experts, scripters or nen-scripters	an Ces	Explainable Artificial Intelligence (XAI) and KNIME Explainable Artificial Intelligence (XAI) arms to develop AI systems that provide clear and interpretable explanations knime
			visual workflows with the open	Q Downlo	(Show more collections)
	source KNIME Analytics Platfo		away. n more about KNIME Community Hub		

Figure 1. The KNIME Hub homepage

### Search

Insert a keyword in the search bar to search among the following items publicly shared by the KNIME Community:

- Nodes
- Components
- Workflows
- Extensions
- Collections

Press Enter to visualize the results.

You will see a list of all the search results in tiles, with:

- · An icon indicating if they are nodes, components, workflows or extensions
- The title
- Whether it is a *draft* or a *versioned* item (for components and workflows)

1

Find out more about versioning a workflow or a component in the versioning section.

- Tags, when available
- A preview of the description, when available
- The owner icon for workflows, and extensions
- The icon, for nodes and components

On top of the search results list, you can filter the results to list only nodes, components, workflows, extensions, or collections by clicking the respective tab, shown in Figure 2.

ME H			
404			
431	results		
All କା <sub>ର</sub>	Workflows 🖅 Nodes ୖୣc Components –⊡ Extension	ns යි <sup>57</sup> Collections	√ Filter
୶ୣ	Workflow Sentiment Analysis Warakened on Oct 13, 2023 556 FM Deep learning Kess Text classification +11	This workflow shows how to train a simple neural network for text classification, in this case sentiment analysis. The used netwo knime > Examples > 04_Analytics > 14_Deep_Learning > 02_Keras > 08_Sentiment_Analysis_with_Deep_Learning_KNIME_nodes	♡ 0
ଜ୍ମ	Workflow Sentiment Analysis Versioned on Oct 13, 2023 556 PM Deep learning Kerzs Test classification \$\[ 12]	This workflow shows how to train a simple neural network for text classification, in this case sentiment analysis. The used netwo knime > Coarnels > 04_Analytics > 14_Deep_Learning > 02_Keras > 07_Sentiment_Analysis_with_Deep_Learning	♥ 0 Knime
ъľ	Workflow           Sentiment Analysis (Classification) of Documents           Versionel on Oct 13, 2023 555 FM           Sentiment analysis (NLP) (Mathed Language Processing ) +2	This workflow shows how to import text from a csv file, convert it to documents, preprocess the documents and transform them into knime > Examples > 08_0ther_Analytics_Types > 01_Text_Processing > 03_Sentiment_Classification	♡ 0
ъfs	Workflow Imbalanced Sentiment Analysis with XGBoost Versioned on Oct 12, 2022 555 PM Sentement analysis [REP [ Natural Language Processing ] [4]	This workflow shows how to import text from a csv file, convert it to documents, preprocess the documents and transform them into knime > Examples > 04_Analytics > 16_XGBoost > 03_imbalanced_Sentiment_Analysis_with_XGBoost	♡ 0 Knime
ଜ୍ୟୁତ୍ସ	Workflow Lexicon Based Approach for Sentiment Analysis Versioned on Oct 13, 2023 555 FMI [MLP] Sentiment analysis [Text processing] +2]	This workflow shows how to perform a lexicon based approach for sentiment analysis of IMDB reviews dataset. The dataset contains knime > Examples > 08_01bm_/snaylics_Types > 01_Text_Processing > 26_Sentiment_Analysis_Lexicon_Based_Approach	♡ 0 Knime
	Workflow Sentiment Analysis with BERT	This workflow demonstrates how to do sentiment analysis by fine-tuning Google's BERT network. The idea is straight forward: A sma	

Figure 2. The KNIME Hub search results

Click on a search result to access the relative page.

When searching for workflows and components, the items that have been versioned will

show up higher in rank than draft-only items. This ensures you to be able to easier find versioned workflows and components when searching on KNIME Hub.

#### Nodes

On the node page, as shown in Figure 3, you will find:

- 1. The node function, name, and tags
- 2. The node owner
- 3. The node drag & drop element: You can drag & drop the element into the Workflow Editor of KNIME Analytics Platform to use the node directly to build a workflow or a component. See the Drag & drop section for more details on this feature.
- 4. The node likes (see the Likes section for more details on this feature) and a link icon to copy the node short link

For each node you can also find:

- An Overview with a description of the node functionality
- *Node details* where you can see information about *Input* and *Output* node ports, a description of the additional *Options*, and, when available, the *Views* that the node is able to produce
- · In the section Extension, you can see the node extension and the extension owner
- Finally, in the section *Related workflows & nodes* you are provided with:
  - · Workflows that are available on KNIME Hub and that contain the node
  - When available, the *Outgoing nodes*, that are the most popular nodes to follow the node when building a workflow.

		Q Search workflows, nodes and more			Pricing About I Sign in
KNIME Community Hub > Nodes > CSV Reader					
1	© Node / Source CSV Reader			2	
				3	
	button. If you encou Limit data rows scar structure changes b schemas option in tt Handling Guide <u>File</u>	Nuto-guess the structure of the file click the Autodetect format ter problems with incorrect guessed data types disable the need option in the Automode Steffrag tab L the input file tween different invocations, enable the Support changing file e Auhanced Steffrag tab C if utilted the Steffrag Steffrag Handling Guide L <sup>2</sup> .		4	
		nt <u>file systems</u> ご More information about file handling in KNIIME Guide, こ			
	Parallel reading : Individual files can be re				
	They are located on the machine thi They don't contain any quotes that i They are not gzip compressed. No lines or rows are limited or skipp The file index is not prepended to th They are not encoded with UTF-16 (	ontain row delimiters. ed. RowID.			
	Node details				
	Ports H Options Views			Overview Node details	
	Output ports	<ul> <li>Type: Table</li> <li>File Table</li> <li>File being read with number and types of columns guessed autor</li> </ul>	matically.	Extension Related workflows & nodes	
	File System Connection (Dynamic Inport)	The file system connection. Type: File System			
	Extension The CSV Reader node is part of this extension				
	KNIME Base nodes 🦁	This features contains basic KNIME nodes. KNIME AG, Zurch, Switzeland	knime		
	Related workflows & nodes				
	of Workflows 🕓 Outgoing nodes				
	04 Data Transformation	Exercise for transforming data. Perform data transformations with the Rule Engine, Math F. Issues Educations and Research and a state as 15:03 strated Analysis Perform for Data Societisa - Resise (previated) + Dercises > 04 Data Transformation	knime		
	01 Date and Time Manipulation	Exercise for date and time manipulation. Transform date and time values from string to th Imme - Execution - Self-Record Courses - Archite + L2:03 ININE Analytics Purderim for back demonst Ananced (interacting) - Exercises - 01 Date and Time Manipulation	knime		

Figure 3. A node page on KNIME Hub

### Components

Components really are KNIME nodes that you create to bundle functionality. They have their own configuration dialog and their own composite views. Thus, also in the component page shown in Figure 4 you will find similar information as for nodes.

- 1. The component name, optionally its latest version (see the versioning section for more details on this feature), and last edit date
- 2. The component owner
- 3. The component drag & drop element: You can drag & drop the element into the Workflow Editor of KNIME Analytics Platform to use the component directly to build a workflow. See the Drag & drop section for more details on this feature.

4. The component likes (see the Likes section for more details on this feature), the count of downloads, and a link icon to copy the component short link.

For each component you can also find:

- An *Overview* with a description of the component functionality, if provided by the component owner
- Component details, where you can see information about the component's *Input* and *Output* ports, a description of the additional *Options*, and, if available, the *Views* that the component is able to produce
- In the section Used extensions & nodes you can see the component extensions and nodes
- Finally, in the section *Related workflows* you are provided with *Workflows* that are available on KNIME Hub and that contain the component

	Hub		Q Search workflows, nodes and more			Pricing About I Sign in
KNIME Community Hub > knime	) Spaces ) Examples ) 00,00mponents ) Autom	ien → Twitter URL4 Extractor © Component Twitter URLs Extract	tor		2	
		Version: v1.0 - Created on Oct 20, 2023 3:29 PM	() History	3	○         0         ○         2388         ⊘         Copy link	
		mainly for SEO purpo tokens obtained from number of tweets for By default all filters a in your search query search filters can be found at:	acts the links tweeted for better keyword search analysis, see: Ito usage is fairly simple, add in the heither authentication of exhvitter consearch quary with necessary filters and search neutils. We disabled, pleases peoch gun recessary assarch filter guo want and this component will do the rest for you. List of all possible itter-api/V1/rules-and-filtering/search-operators		4	
		Component details				
		,Ø Ports				
		Output ports	Type: Table     table     A column containing tweeted web addresses and correspondi	ng tweet details.	Overview Component details Used extensions & nodes	
		Used extensions & nodes			Logal	
		Created with KNIME Analytics Platform version 4.4.0				
		KNIME Base nodes 😔	KOMME 4.2, Turkin, Saktzerland Vargian, 4.40	Anime knime		
		KNIME Expressions $\heartsuit$	VMME && Zunch Sentanland Version 4.4.0	knime		
		KNIME Javasnippet $\bigtriangledown$	KNINE AZ, Zurich, Sintzefund Version ALD	knime		
		KNIME Quick Forms $\bigtriangledown$	KNIKE AS, Zunit, Switzefand Version 4.40	knime		
		KNIME Twitter Connectors $\heartsuit$	NDIAE 4.2. Zuruh, Skotanland Version 4.4.0	knime		
		Legal By using or downloading the component, you a	gree to our <u>terms and conditions</u>			

Figure 4. A component on KNIME Hub

#### Workflows

A workflow page typically has multiple useful information about the workflow such as:

- 1. The workflow title, tags, optionally its latest version (see the versioning section for more details on this feature), and its last edit date
- 2. The space owner where the workflow is contained and, if different from the space owner, the workflow developer
- 3. The workflow drag & drop element: You can drag & drop the element into a selected mount point in the space explorer of KNIME Analytics Platform. This will prompt an *Import* window which allows you to import the workflow into the mount point. See the Drag & drop section for more details on this feature.
- 4. The workflow likes (see the Likes section for more details on this feature), the count of downloads, and a link icon to copy the workflow short link.

For each workflow you can also find:

- An *Overview* with a description of the workflow when provided by the workflow developer
- *External resources* links to external resources such as KNIME blog posts, KNIME documentation, or any other interesting link that the workflow developer might want to provide
- In the section *Used extensions & nodes* you can see the workflow extensions and nodes, and the KNIME Analytics Platform that has been used to create the workflow

		Q Search workflows, nodes and more			Pricing About : Signin
KAIME Community Hub $ ightarrow$ knime $ ightarrow$ Spaces $ ightarrow$ 1	Reampler 3 02.011. Dates Mentipulation 3 02.Basic Example #© Workflow <b>Visual Analysis of Sal</b> Data anosa (free theory) Code or theory) The standards	es Data		2	à
	Version: v1.0 - Latest, created on Oct 20, 2023 4.06 PM	( History	•	3 🖉 🛇 6 🗘 18200 🖉 Copy	
	- Provide file path - Filter c		Data Visualization - Show sales by time and country Stacked Area Chart		4
	Read S sales_2008-2011.csv	elect "county", Exclude rows te" and "amount" where country columns unknown	Sales by time Color Manager Piel/Donut Chart Piel/Donut Chart Assign colors Sales by country based on country	Overview External resources Used extensions & nodes Legal	
	Workflow that is built according to the instru Quickstart Guide Shows possible steps in analyzing (sales) du 1. Data access - Reading a csv file 2. Data preprocessing - Filtering columns an 3. Data visualization - Assigning colors to gro How-to: Configure a node - Right click a node and select 'Configure'	ata id rows	e and in the KNIME		
	Or, double click a node Execute a node     Right click a node and select "Execute"     Inspect data output     Night click a node and select the last option	n called 'File Table' 'Filtered Table' a	de		
	Open an interactive view - Right click a node and select "Interactive Vi				
	External resources → KNIME Getting Started Guide				
	Used extensions & nodes				
	Created with KNIME Analytics Platform version 4.5.1	KTRIME AG, Zurich, Binitzerland Version 4.8.1	Line		

Figure 5. A workflow on KNIME Hub

#### Extensions

Extensions are collection of nodes that provide additional functionality such as access to and processing of complex data types, the use of advanced algorithms, as well as the use of scripting nodes, and so on.

KNIME Extensions are developed and maintained by KNIME, allowing you to access open source projects and add their functionality to your KNIME workflows. Community Extensions instead include functionality specific to various industries and domains. Some of these community extensions are classified as Trusted Community Extensions, which have been tested for backward compatibility and compliance with the KNIME usage model and quality standards, and Experimental Community Extensions, which come directly from the labs of our community developers. Finally, also Partner Extensions are available which provide additional capabilities offered and maintained by our partners.

All these Extensions are available on KNIME Hub.

An extension page typically has multiple useful information about the extension such as:

- 1. The extension name and owner, version of the extension
- 2. The extension drag & drop element: You can drag & drop the element into the Workflow Editor of KNIME Analytics Platform. If the extension is not already installed this will prompt an *Install Extension* window which allows you to install the extension. See the Drag & drop section for more details on this feature.
- 3. The extension likes (see the Likes section for more details on this feature), and a link icon to copy the extension short link.

For each extension you can also find:

- · An Overview with a description of the extension when provided
- *Included nodes* with a list of all the nodes that are part of the extension and that will be available once the extension is installed
- In the section *Related workflows*, you are provided with *Workflows* that are available on KNIME Hub and that contain the nodes that are part of the extension
- Finally, in the section *Legal & update site*, you can have legal information about the copyright and the update site information, with the type of the extension, version number, and the link to the update site

#### Collections

KNIME Collections on KNIME Hub allow upskilling users by providing selected workflows, nodes, and links about a specific, common topic.

One example of a collection can be found on KNIME Community Hub here.

This collection, for example, contains:

Workflow examples:

	Hub	Q Search workflows, nodes and more		Pricing About : Bign in
KNIME Community Hub > knime >	Collections > KNIME Analytics Platform	n Version 5 Starter Perspective Collection		
Spreadsbeets Browse	<b>IE Analytics Pla</b>	tform Version 5 Starter Perspec		New to KNIME? Get started with Early Access Release of Version 5 of KNIME Analytics Platform to use all the examples and nodes you need for an easy start!
Below, find spreadshe	orkflow examples examples for the most common da at users, who are new to visual work g spreadsheets	a manipulation tasks. Recommended for beginners, particularly lows		Workflow examples Nodes for data access Nodes for visualizing Nodes for data transformation Cheat sheet: KNIME for spreadsheet users
Start your ef <mark>e</mark>	data analysis journey with KNIME: A Workflow Merge Files Spreadsheets [Excel] [Merge]	beginner's workflow list for reading in data. This workflow merges different unstructured data sources to come up with a new table. Since data come from different data files, knime > KNIME for Spreadheet Users > Marge Files	♡ 0 knime	
⊳[ <sup>0</sup> S	Workflow Non-standard format Spreadsheets Excel [spreadsheet]	This workflow shows how to work with spreadsheets that come in a non-standard format using KNIME Analytics Platform. The aim is t knime > XNIME for spreadsheet Users > Non-standard format spreadsheets	♡ 0	

Figure 6. Example workflows in a collection on KNIME Hub

Nodes:

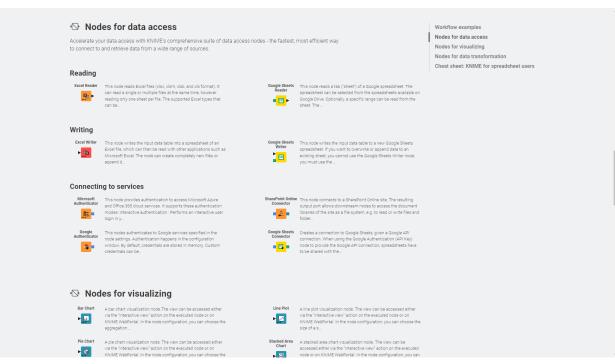


Figure 7. Nodes in a collection on KNIME Hub

· Links:

	107		2027/02 11/22			
			section Type			
				Workflow exa	Imples	
Date & tim	ie handling			Nodes for dat	ta access	
	Extracts the selected fields from a Local Date, Local Time, Local	Date&Time Shift	The node shifts a date or time with a defined durat	ion or Nodes for vis	ualizing	
	Date Time or Zoned Date Time column and appends their values as corresponding integer or string columns.	▶ <mark> </mark>	granularity. The user can select the Date&Time coll and the shift value. The shift value can be achieved		ta transformation	
► <mark>♀</mark> ►	as conesponding integer or string columns.		either a durati		KNIME for spreadsheet users	
Date&Time	Calculates differences between two date&time cells and					
Difference	appends a new column. The output can be either a duration or a					
▶ <mark>⊙</mark> ►	selected granularity (years, months, weeks, days, hours, minutes, seconds, millis					
	second, minu					
Cheat sl	heet: KNIME for spreadsheet use	ers				
	sheet, designed as a companion just for KNIME Analytics lar nodes and their purpose.	s Platform Version 5, as a qu	ick reference for			
the most popu	nar nodes and men purpose.					
Accer	ss cheat sheet					
						_
	Software		KNIME Hub	Partner	KNIME Home	
KNIME	Getting		KNIME Forum	Developers	KNIME Open Source Story	
Open for Innovation	Docume		Blog	Detelopero	Careers	
KNIME AG		ng course	Events		Contact us	
Talacker 50	Solution	· · ·				
8001 Zurich, Switzerland						
	<b>R</b>			(		
🖻 🗹 in f 🏹				Download KNIM	E Analytics Platform Read more on KNIME Business Hub	
© 2023 KNIME AG. All rights reserved.				Technol	and Institute Delayers Trans & Conditions Condition	
© 2023 KNIME AG. All rights reserved.				Tradem	narks Imprint Privacy Terms & Conditions Credits	

Figure 8. Additional links in a collection on KNIME Hub

## Drag & drop

You can drag & drop nodes, components, extensions, and workflows from KNIME Hub to import them into KNIME Analytics Platform and use them right away to build your own workflow, install KNIME Extensions, and execute uploaded workflow into your local installation.

 Node and components: You can drag & drop a node or a component from KNIME Hub into your Workflow Editor in KNIME Analytics Platform. In case the node is part of an Extension that is not yet installed into your local installation of KNIME Analytics Platform or in case nodes that are part of extensions that are not yet installed are contained in the component, you will be asked if you want KNIME Analytics Platform to search and install the missing extension(s), as shown in Figure 9.

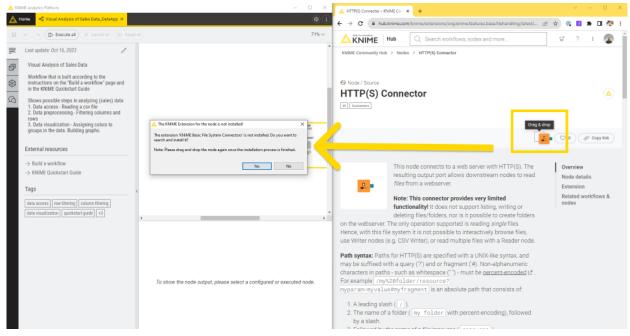


Figure 9. Drag & drop a node from KNIME Hub to KNIME Analytics Platform and install missing extension

• Extensions: You can drag & drop a specific extension into the Workflow Editor. KNIME Analytics Platform will search and install it. In order to be able to install the extension the extension's update site that is indicated at the end of the extension page in the section *Legal & update site* must be activated in KNIME Analytics Platform.

## KNIME Hub as a repository

Not only does KNIME Community Hub serve as a repository for nodes, components, workflows, and extensions, ready to use in KNIME Analytics Platform via an easy drag & drop, but you can also use KNIME Community Hub to share your workflows with the KNIME Community or to store and organize your material in a private space.

### Create a user account

First, if you do not have one already, create a KNIME user account. It will grant you access not only to KNIME Hub but also to other KNIME products, such as the KNIME Community Forum.

Go to KNIME Hub, and in the top right corner of the page, click Sign in. Then select Create account. Fill in the required information and click Create account.

After confirming the link sent to your email address, you can sign in with your account. Click the user icon in the top right corner of KNIME Hub and select *Profile* from the menu to have access to your profile page. Here you can have an overview of the workflows and components you published, the extensions you published in case you have developed any of those, and the likes received. Also, you will have a list of the items you liked on KNIME Hub.

### Change email address

If you want to change the email address of your KNIME user account (which is used for our forum, Community Hub and LearnUpon), then follow this section.

- 1. If you have access to your old email address
  - 1. If you want to keep your Credly badges, follow this guide.
  - 2. Send an email from your old email address to change-email@knime.com, stating:

```
KNIME user account:
Old email address:
New email address:
```

#### 2. If you lost access to your old email address

Send an email to change-email@knime.com, stating:

KNIME user account: Old email address: New email address: Verification: (e.g. score of your certificates) Help with Credly badges requested: Yes/No

## **KNIME Hub spaces**

From your profile page or by clicking your profile icon and selecting *Spaces*, you will have access to the KNIME Hub spaces that are linked to your user account. A space is a KNIME Hub repository where you can store and share your workflows and components. When you register and sign in to KNIME Hub, two spaces will be automatically created. These are a *private* space and a *public* space, which have different access permissions. You can manage your spaces by changing their names or adding a description to them.

You can upload your items from KNIME Analytics Platform to the spaces you have access to. Moreover, you can create new spaces, both private and public. Finally, you can add contributors to your *public* spaces. All these functionalities will be explained in the following paragraphs.

#### Access permissions of spaces

You are the owner of your spaces. Each space is linked and assigned to a specific user.

Spaces can be private or public:

- 1. A *private* space is only accessible and manageable through your user account. Here, you can store various types of items like workflows, components, or data.
- 2. A public space, instead, is visible to the entire KNIME Community, where you can share your workflows and components. Everyone will then be able to download them, drag & drop them to their KNIME Analytics Platform and use it, as well as *like* your spaces or items, or copy a link to your space and share it with others.

It is also possible to switch a space from private to public and vice versa. To do so, go to the *private* space you want to make *public*, click the : icon on the top right part of the page, and under *Visibility*, select *Make public* (or vice versa, select *Make private*), as shown in Figure 10.

	Hub	Q Search workflows, nodes and more		Pricing About :
KNIME Community rulu > Yen	Private space My private Sandbox			8
			(♡ 0) Ø Copy Ĵ Delete	link 🕴
	Home $al_{g}^{0}$ Building a Credit Scoring Model           Old description	not to be shared	↓     This will remove the space with all its content.     Delet       ↓     ✔     Visibility       ↓     This space is private Make.	e space)

Figure 10. Change the visibility of a space on KNIME Hub

Manage your spaces

You can manage your spaces at any point in time by going back to the space page.

You can change the space's **name** by going to the space page and clicking the title. Insert the new name in the title field and click the  $\checkmark$  button or press *Enter* to save. Click the  $\times$  button instead to discard your changes.

	Q Search workflows, nodes and more	Pricing About :
KNIME Community Hub > verena_mayer > Spaces >	Public	
		♥ 0         ∅ <sup>2</sup> Copy link         €
To upload	Seems like you haven't uploaded anything to this space yet. d workflows or components, connect to the "My-KNIME-Hub" mountpoint in KNIME Analytics Platform:	
	21 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	

Figure 11. Change the name of a space

You can also add a **description** to your space by clicking *Add description* at the bottom of the space page. Again, click the yellow tick button or press *Enter* to save your changes, or the  $\times$  button to discard them.

Open for Innovation			
	Hub	Q Search workflows, nodes and more	Pricing About 🗄 🗑
KNIME Community Hub > verena	mayer > Spaces > Public		
Public space Public			
			♥ 0         Ø Copy link         ⋮
	c	eems like you haven't uploaded anything to this space yet.	
		rearns line you haven t uproduced anything to this space yet.	
		ζ + 0 0 3 mmmi β	
	•	KNIME	
		Sign in	
		Lorenze oursel addres	
		Rec. Elanar	
		Learn more	
O Add description			

Figure 12. Add a description to a space

The description will be shown in the overview of your spaces in the corresponding space tile.

#### Create a new space

You can create a space from your profile's spaces overview. Here, the spaces you have access to are shown, ordered by the latest update. Go to the last tile *Create new space*, and select if you want to create a *Private space* or a *Public space*. You can choose a name for the space, and the space will be created.

#### Delete a space

To delete a space, you can go to the space page, click the : icon on the top right and select *Delete space*. You will be asked to insert the name of the space.

Open for Innovation			2 16 16 18
KNIME Hub	Q Search workflows, nodes and more		? :
IIME Hub > mario_rossi > Spaces > Churn Analysis			
Public space     Churn Analysis			
·····,···			
Last edited: 7 Apr 2021			0 🔗 Copy link
Home		Delete     This will remove the spa	X
${\rm ext}_{\rm fs}^{\rm G}$ Data Preparation		↔ with all its content.	Delete space
This my first test with trying out so	me of the example KNIME workflows.	This space is visible to everyone. Make it privat	.e. Make private

Figure 13. Delete a space from KNIME Hub

## Connect to KNIME Hub

You can access KNIME Hub from the KNIME Hub mount point and upload your workflows and components directly from your local KNIME Analytics Platform instance to KNIME Hub.

### KNIME Hub mount point

You can connect to your KNIME Hub account on KNIME Analytics Platform.

To do so, go to the Home page of KNIME Analytics Platform and sign in to KNIME Community Hub.

URMA Analytics Platform 5		- 0 ×
	Get started with KNIME Analytics Platform 5	
	Local space	
	The local space is the folder on your computer to store and access KNIME workflows and data produced by your workflows.	Create workflow in your local space.
	KNIME Community Hub ( <u>hub.knime.com</u> ) Connect to the KNIME Community Hub to find workflows, nodes and components, and collaborate in space	es.

Figure 14. Connect to KNIME Hub from KNIME Analytics Platform

You will be redirected to the sign-in page if you are not connected in the current session already.

KNIME Analytics Platform			- Ø ×
KNIME Analytics Platform 5			() i
Open for Innovation	Get started with KNIME Analytics I	Platform 5	
	Local space		
	The local space is the folder on your computer to store and access KNIME workflows and data produced by your workflows.	Create workflow in your local space.	
	KNIME Community Hub ( <u>hub.knime.com</u> ) mario_rossi		
	Churn Analysis This my first test with trying out some of the example KNIME workflows.	lease and a second seco	
	mario_rossi	mario_rossi	

Once you are signed in, you will see all your spaces.

Figure 15. A user connected to KNIME Hub from KNIME Analytics Platform

Click on a space to access the items within the space. You can perform different types of operations on them:

- Upload items to your KNIME Hub spaces, download, duplicate, move, delete, or rename your items. More information about this functionality is provided in the next section.
- Open workflows as local copies or on KNIME Hub. You can find the respective buttons in the toolbar on top.
- Create folders to organize your items in the space. Click the *Create folder* button in the toolbar on top.

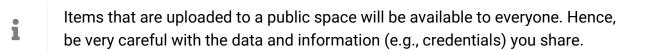
## Upload items

Once you are connected to your KNIME Hub account from KNIME Analytics Platform, you can upload the desired items to your KNIME Hub spaces.

You can upload workflows or components to any of your spaces by right-clicking the item from the space explorer in KNIME Analytics PLatform and selecting *Upload* from the context menu. A window will open where you will be able to select the location where you want to upload your workflow or component.

▲ Destination	—		×
Deploy to Select the destination workflow group.			
<ul> <li>My-KNIME-Hub (mario_rossi@api.hub.knime.com)</li> <li>Churn Analysis</li> <li>My private Sandbox</li> <li>Churn Analysis - not to be shared</li> </ul>			
knime://My-KNIME-Hub/Users/mario_rossi Reset Workflow(s) before upload OK		Cance	:1

Figure 16. Upload a local item to your KNIME Hub mount point



## Version items

When uploading items to a space on KNIME Hub, you will be able to keep track of their changes. Your workflow or component will be saved as a draft until a version is created.

When you create versions of the items, you can then go back to a specific saved version at

any point in time in the future to download the item in that specific version.

Once a version of the item is created, new changes to the item will show up as draft.

#### Create a version of an item

Go to the item you want to create a version of by navigating through KNIME Hub and click *Versions*.

		Q Search work	flows, nodes and more			U	Versions history	>	×
KNIME Community Hub > verena_mayer > Sj	paces > My private Sandbox > Toj	pic Detection Based on Movie Reviews				۲	Draft Latest edits on Feb 1, 2024 11:44 AM	Create version	
	Bentiment Analysis Dictionary Based Po	alitive Words Negative Words Tag Cloud	ation) of Documents	5		•	No version created yet		
		ie Reviews Information elements from unstructured text de detection analysis on movie reviews.	focuments and groups them to define a number of to	xics. This workflow	Overview       Used extensions & nodes       Legal				
	Data Reading Read IMDb reviews from a CSV file. The file is located in TheData/ SocialMedia	Pre-processing - Classic pre-processing of documents: Punctuation Erasen: Number Filter, N Chars Filter, Stop Word Filter, Case Converter Double-click the metanode to see the subworkflow	Topic Detection Build a list of topics of the pre-processed documents using the Topic-Extractor (Parallel LDA) node. Use 4 words for each topic and 8 topics.	Grouping The GroupBy node concatenates the keywords for the identified topics.					
	CSV Reader Reading Thefata/ Socialitedia/ MDb-sample.cov	Document Creation and document pre-processing Transformation of attings to documents	Topic Extractor (Parallel LDA) 4 words for 8 topics 7 10 content content 200 c	actor (Parallel the number of s that you would					

Figure 17. Versioning of a workflow

A panel on the right opens where you can see all the versions already created and all the unversioned changes of the item since the last version was created.

Click *Create version* to create a new version. You can then give the version a name and add a description.

Show a version

In the Versions history panel, click the version you want to see, or click the : icon and select Show this version. You will be redirected to the item in that specific version.

	Hub	Q Search workfl	ows, nodes and more			$\odot$ Versions history
KNIME Community Hub > verena, m	wyer > Spaces > My private Sandbox > T «C Workflow <b>Topic Detection</b> [Sentement Analysis] [Centement Read] [Priorit	n Based on Mov	ie Reviews			v2 Testing 2 Created on Rei 1,2024 251 PM - Version 3      v1 Testing Created on Rei 1,2024 201 PM - Version Extension Extensi Extension Extension Extension Extension Extension Extensi Extens
	Version: v2 - Latest, created on Feb 1, 2	2024 2:51 PM 🕑 Versions			9 <mark>6</mark> 🛇 0 (\$ 3	
	Topic Detection Analysis - Movie Re Topic detection entracts relevant in perform a topic detection analysis Task. Perform a topic detection in MOI	formation elements from unstructured text on movie reviews.	documents and groups them to define a number of top	sics. This workflow illustrates how to	Overview Used extensions & node Legal	
	file. The file is located in TheData/ SocialMedia	Pre-processing Classic pre-processing of documents: functuation Erasure, Number Filter, N Shars Filter, Stop Word Filter, Case Sonverter Jouble-Click the metanode to see the ubworkflow	Topic Detection Build a lat of topics of the pro- documents using the Topic-Extractor (Parallel LDA) node. Use 4 words for each topic and 8 topics.	Grouping The GroupBy node concatenates the keywords for the identified topics.		
	Version 2 CSV Reader	Document Creation and document pre-processing Transformation of strings to documents	the Topic Extracto 2) Try to change the	ne number of that you would like		

Figure 18. Show the versions of a workflow

To go back to the latest state of the item, click the selected version to unselect it.

#### Restore a version

To restore a version that you created, click the  $\pm$  icon in the version tile from the item history and select *Restore this version*.

b	Q Search workfl	iows, nodes and more				U	Versions history	×
ଖ୍ <mark>ତ</mark> Workflow	on Based on Mov	ie Reviews				•	V2 Testing 2 Cressed on Feb 1, 2024 2:51 FM - Version 3 V1 Testing Cressed on Feb 1, 2024 2:01 FM - Version 1	Show this version Restore this version Delete this version
Version: v2 - Latest, created on Feb 1,	2024 2:51 PM 🕓 Versions							
perform a topic detection analysis Task. Perform a topic detection in M Data Reading Read IMDP reviews from a CSV file. The file is located in TheData/ SocialMedia	information elements from unstructured text s on movie reviews.	documents and groups them to de Topic Detection Build a last of topics of the proper documents using the Topic Stata node. Use 4 words for each topic	ocessed ctor (Parallel LDA)	ics. This workflow illustrates how to Grouping The Decupility node concatenates the keywork for the identified topics.	Overview Used extensions & node Legal			
version 2 CSV Reader	Document Creation and document pre-processing	Topic Extractor (Parallel L	Try this: 1) Go to the config the Topic Extractor 2) Try to change th words and topics t	e number of				

Figure 19. Restore the workflow as a draft

The version will be restored as a draft.

#### Delete a version

In the *History* panel, click the : icon for the version you want to delete and click *Delete*.

	Hub	Q Search workf	lows, nodes and more			U	Versions history	×
RNME Community Hub $\rightarrow$ versea_may	er > Spaces > My private Sandbox > «" Workflow <b>Topic Detectic</b> Terrement Andrits [ Detmays Team] / Pr	on Based on Mov	ie Reviews			•	V2 Testing 2 Onstand on Fileh 1, 2024 2 51 PM - Version 3	Show this version Restore this version Delete this version
	Version: v2 - Latest, created on Feb 1	0, 2024 2:51 PM 🕑 Versions			9 <mark>6</mark> (0 0 0 3			
	Topic Detection Analysis - Movie Topic detection extracts relevant perform a tipic detection analysis	information elements from unstructured text	documents and groups them to define a number of	topics. This workflow illustrates how to	Overview Used extensions & node Legal			
	Task. Perform a topic detection in IN							
	Data Reading Read IMDb reviews from a CSV file. The file is located in TheData/ SocialMedia	Pre-processing - Classic pre-processing of documents: Punctuation Ersure, Number Filter, N Chars Filter, Stop Word Filter, Case Converter Double-click the metanode to see the subworkflow	Topic Detection Build a list of topics of the preprocessed documents using the Topic-Extractor (Parallel LD node. Use 4 words for each topic and 8 topics.	Grouping The GroupBy node concatenates the keywords for the identified topics.				
	version 2 CSV Reader	Document Creation and document prepresenting Transformation of strings to documents	2) Try to chang	cs that you would like				

Figure 20. Delete a version

## Move items

You can move items that you have uploaded to KNIME Hub to a new location within the space that contains the item, or to a different space that you have access to. To do this, you need to be connected to the KNIME Hub mount point on KNIME Analytics Platform. If you want to move items within the same space, drag the item in the space explorer, for example, to a subfolder. To move items from one space to another, right-click the item and select *Move to*. In the *Destination* window that opens, select the space to which you want to move the item to.

i

These changes will automatically apply to the space on KNIME Hub.

## Delete items

You can also delete items that you uploaded to KNIME Hub. To do so, you can:

- Connect to KNIME Hub mount point on KNIME Analytics Platform. Right-click the item you want to delete and select *Delete...* from the context menu
- From KNIME Hub, sign in with your account and go to the item you want to delete. Click the : icon on the top right of the page and select *Delete workflow*.

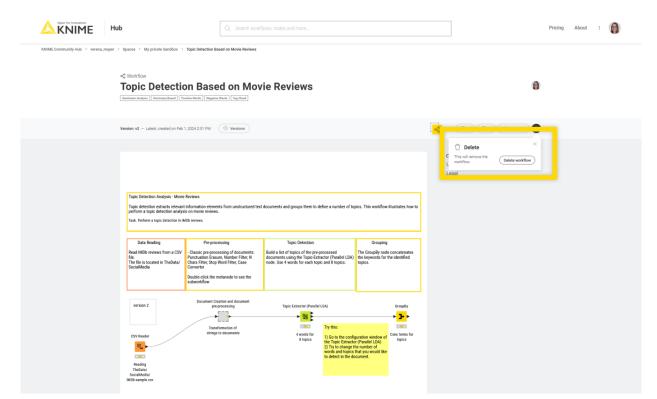


Figure 21. Delete a workflow from KNIME Hub

## Community features on KNIME Hub

KNIME Community Hub is also the place where you can interact and collaborate with the KNIME Community.

Once you have created your profile and uploaded your items to your public spaces, you can share them with others, you can remain engaged in other people's work by liking items. Finally, you can also add other users from the KNIME Community as contributors to your public spaces. They will be able to access your space from their KNIME Hub profile and from their KNIME Hub mount point on KNIME Analytics Platform, download, and upload workflows or components. Add contributors to your spaces to collaborate on a project and keep all workflows always accessible in one place.

## Share links to items on KNIME Hub

Go to any workflow, component, space, extension, or node on KNIME Hub and click the *Copy link* button on the top right, as shown in Figure 22. You will copy to your clipboard a URL short link to the item that you can share with others.

A Reporting minimal example – 101 2			✓ – □ ×
← → C O A thtps://hub.knime.com/knime/spaces/Examples/05_Reporting/03_Reporting/Reporting minimal example	e-u6jUtws-ggWKdb5i/most-recent	() 1995年(1)	S 7 🐨 🖓 🖻
	and more		Pricing About :
VXMC Community Mob ) knime > \$paces > \$camples > 06,Reporting > 01,Reporting > Reporting minimal example w Wordhow Decomposition of the second of the sec	The other set of the s		

Figure 22. Click the link icon to copy the short link to your clipboard.

The short link is assigned uniquely to every item that is on KNIME Hub, regardless of its location. This means that even if the item is moved by its owner into a different space, the item will be reachable at the same short link.

The same rule is valid for the URL, which will be redirected to the new location automatically.

## Like items on KNIME Hub

If you find an item on KNIME Hub that has been very useful for you or that you particularly like, you can leave a like by clicking the heart icon on the top right of the page. See how much the KNIME Community has been engaged in specific items by looking at the number of downloads and likes that a specific item has received, as shown in Figure 23.

Pricing About : ME Community Hub > knime > Spaces > Examples > 00 Come Analyze Workflow Summary ion: v1.0 - Created on Oct 20, 2023 3:28 PM 🕓 Versi onent extracts information from a workflow summary XML file that can be obtained from either the File > Export > Workflow Summary (JSON/XML)... menu in KNIME Analytics Platform, or from a KNIME Server's REST API. • Used extensions & nodes On the KNIME Analytics Platform, a workflow summary is extracted for the currently opened, executed and saved workflow in the workflow editor. This component extracts the node names, node configurations, predecessor and successor nodes, execution status, node type, if the node is deprecated, and if it's a metanode/component, names of the nodes and their occurrences, and the reader and writter nodes and their corresponding data locations, into a table representation based on the workflow summary file in XML, format, if the 'include execution information' option is checked when creating the workflow summary XML file, also the execution environment and installed plugins will be provided in the component's table outputs. Large workflows with lots of nested components and metanodes will inherently result in large workflow summary XML files. Analyzing such large summaries could take a long time and the resulting tables could be too big, in such cases, limiting the depth of analysis for nested components/metanodes with the component dialog is recommended. Component details Ports III Options Input ports Type: Table A table containing one XML column, typically an output from XML Reader node Type: Table Output ports

All the items you liked will be shown on your user profile under About.

Figure 23. Number of downloads and likes of an item on KNIME Hub

### Contributors

You can add any other user of KNIME Community as a **contributor** to any of your *public* spaces.

To add a user as a contributor to a *public* space, go to the space and click the pencil tool close to your profile icon.

Open for Insolution	Hub	Q Search workflows, nodes and more			Pricing About i Ç	2
KNIME Community Hub > verena_	Public space			0	Q	
	Public			(♡ 0) <i>⊘</i> Copy link		
	Home arte Topic Detection Based on Movie	Deviews	ф Ф			
	Add description		Ψ			

Figure 24. Add a contributor to a public space

In the *Manage space access* panel that opens, you can add contributors by inserting their KNIME Hub username. Then click *Add* and *Submit*.

KNIME Community Hub > verena_mayer > Spaces > Public Public space Public	Users added here have read and write access to this space. You can add and remove users below.
	Q, knime
	khime Add
	Q
Home	
•%       Topic Detection Based on Movie Reviews         •       •         •       •         •       •         •       •	Cancel

Figure 25. Manage contributors on a public space

In the same panel, you can also manage the contributors. Click on the  $\Box$  icon to remove a contributor from the space.

When you are added as a contributor to a space, you will be able to see the space under

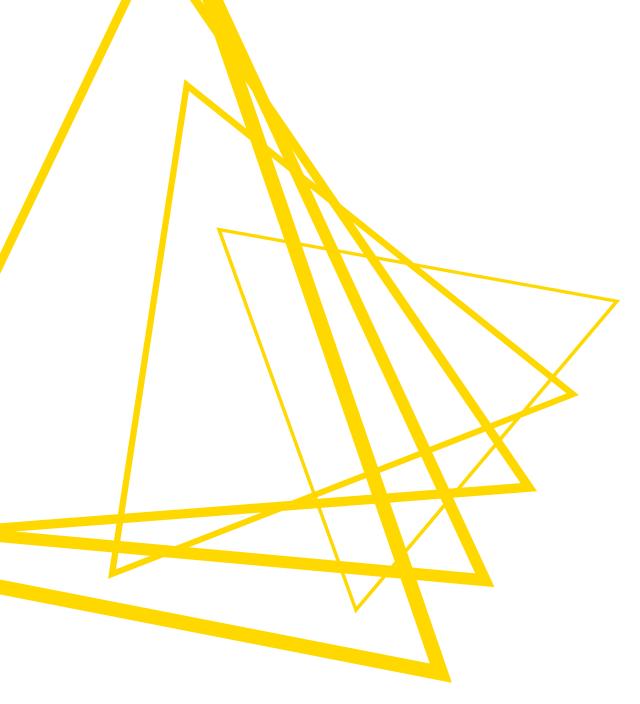
*Spaces* in your profile page and also listed in your KNIME Hub mount point from KNIME Analytics Platform.

Contributors have edit rights for the space they are added to. They can add and edit workflows or components in the space. They do not have the same rights that the owner of the space has. Only the owner of a space can change the space name or change the space visibility to *private*.



Since contributors can only be added to *public* spaces, they will not have access to the space anymore if the space visibility is changed from *public* to *private*.





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