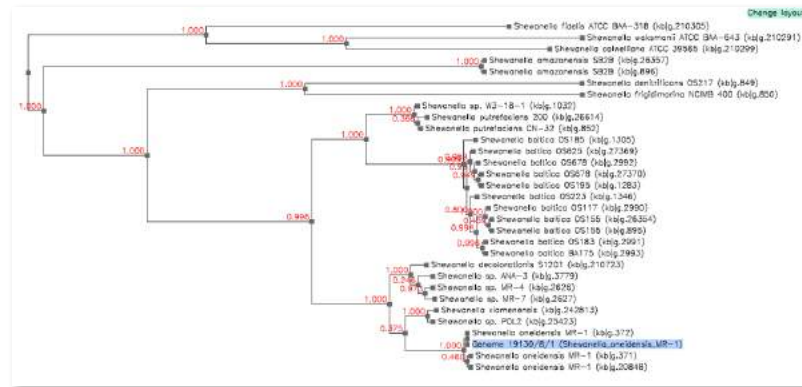
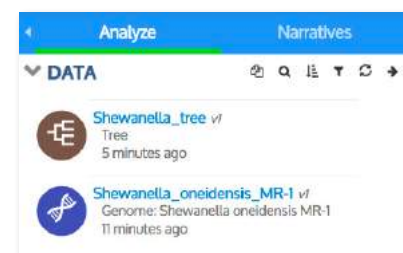
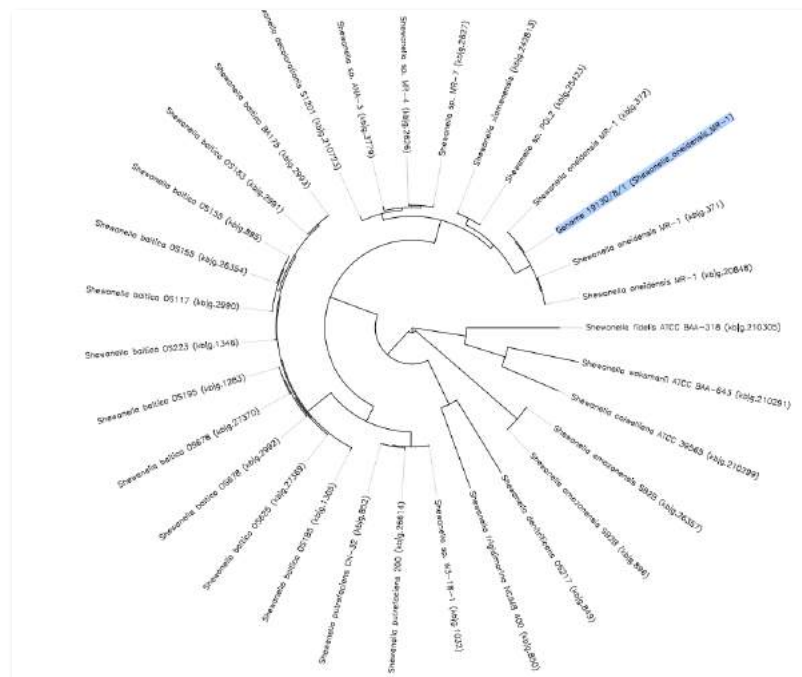


8 Review the results

Once the analysis is complete, a viewer will appear in your Narrative showing the output. In this example, the *Insert Genomes into Species Tree* app generates a phylogenetic species tree used to distinguish taxonomically distinct organisms. Here, the tree displays the 40 closest relatives of our input genome, *Shewanella oneidensis* MR-1.

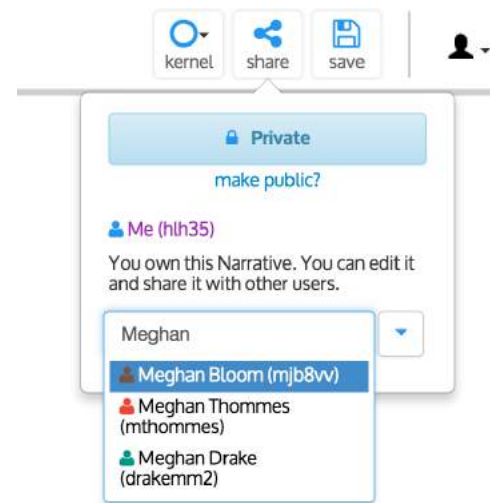


The *Change layout* button allows you to switch between a circular and linear representation of the phylogenetic tree.



In addition to output viewers, KBase analysis jobs may generate new data objects that appear in the Data Panel. In this example, notice the new species tree objects.

9 Share your Narrative



All Narratives that you create are private by default. You can make a Narrative public or share it with specific collaborators by clicking the **Share** button at the top right (kbase.us/narrative-guide/share-narratives/).

Next Steps and Additional Resources

With these basic steps, you now can begin using the Narrative Interface to create Narratives and analyze data. An extensive set of tutorials is available:

- **Narrative Interface User Guide**
kbase.us/narrative-guide/
- **Data Upload and Download Guide**
kbase.us/data-upload-download-guide/
- **Transfer JGI Data Guide**
kbase.us/transfer-jgi-data/
- **App Tutorials**
kbase.us/tutorials/

Contact us

Learn more about using KBase at kbase.us.

To contact us, please go to:
kbase.us/contact-us/

We welcome your feedback on what you like or don't like about KBase and what you'd love to see us add in the future. Please share your opinions by taking our questionnaire at kbase.us/feedback/.

KBase

PREDICTIVE BIOLOGY



DOE Systems Biology Knowledgebase

Quick Start Guide

The Department of Energy Systems Biology Knowledgebase (KBase) is a software and data platform designed to meet the grand challenge of systems biology: predicting and designing biological function. KBase's Narrative Interface lets you design and carry out collaborative computational experiments while creating Narratives: interactive, shareable, and reproducible records of your data, computational steps, and thought processes. This Quick Start Guide provides an overview of several key features of the Narrative Interface.

1 Create a KBase user account

To sign up for an account, go to:

kbase.us/signup

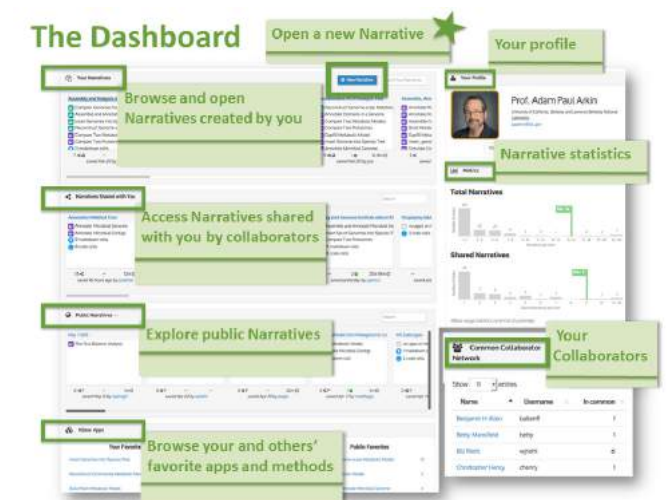
(If you already have a user account, proceed to Step 2.)

Globus provides the secure platform used to manage user access to KBase tools and resources. From the initial sign-up page, click **Continue** to access a Globus form where you will provide basic account and profile information as well as agree to KBase usage terms and conditions.

Once you fill in the required information and click **Create ID**, check your email for a message from Globus containing a verification code.

Follow the instructions in the message to use the code to confirm your account. Upon confirmation, you will be asked to join the KBase users group. Once you join, you are ready to log in to KBase.

2 Sign in to the Narrative Interface



Access the Narrative Interface at narrative.kbase.us. After you sign in, you will be taken to your Dashboard.

From the Dashboard, you can open your existing Narratives, access others that have been shared with you, and create new Narratives.

(If you are a new user, your Dashboard will be empty. Please complete your profile and check your account settings.)



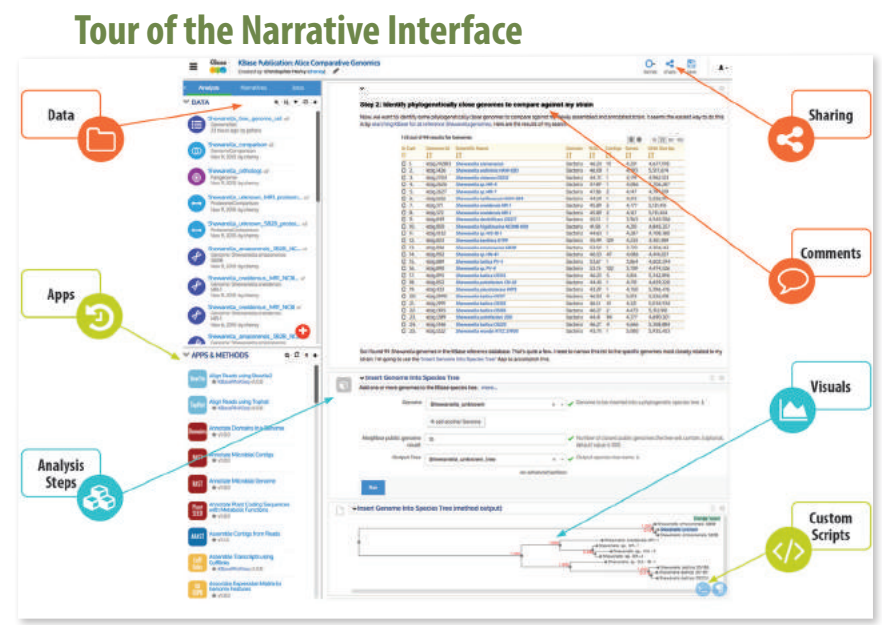
Watch an introduction to KBase's Narrative Interface

A 12-minute video demonstrating the Narrative Interface is available at kbase.us/narrative-quick-start/. In it, you'll see how to create a Narrative, find data, use apps to analyze the data, and share Narratives with other KBase users.

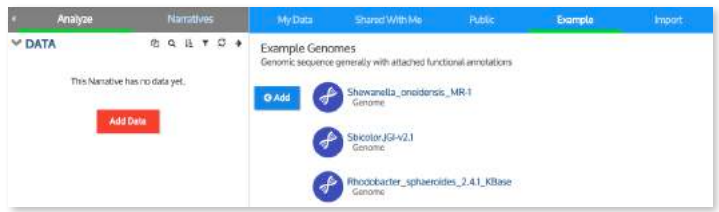
3 Create a new Narrative

Click the **+ New Narrative** button in the Dashboard to open a new untitled Narrative.

Note the **Welcome to the Narrative Interface** box that offers useful suggestions for adding content to your Narrative. You can collapse or delete this box using the "..." menu in its top right corner.



4 Find data to analyze



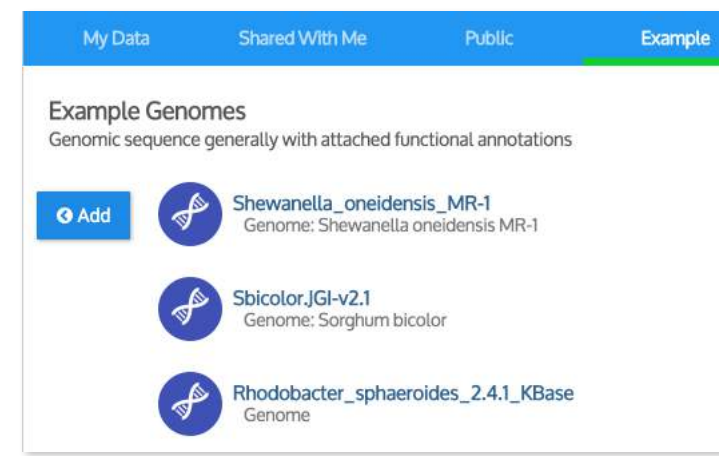
To load data to your Narrative, click the **Add Data** button, which can be found under the *Analyze* tab near the top left of the Narrative. The Data Browser (kbase.us/narrative-guide/explore-data/) will slide out with tabs that show several data sources.

- **My Data** — Data you have already loaded or analyzed in other Narratives.
- **Shared With Me** — Data in Narratives shared with you by collaborators.
- **Public** — Data in public Narratives.
- **Example** — Example datasets from KBase's reference data collection that can be used as inputs to apps (see screenshot above).
- **Import** — Tool allowing you to import your own data. KBase currently supports upload of short reads, assemblies, genomes, expression matrices, metabolic models, media, and phenotype sets.

Note that any data you upload to KBase is private unless you choose to share it.

5 Add data to your Narrative

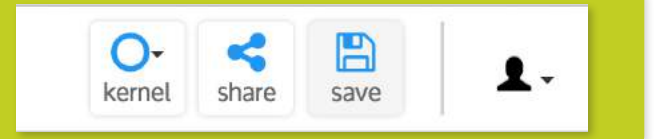
When you hover over a data object in the Data Browser, an **Add** button will appear to its left. Click this button to add the data to your Narrative.



Notice that the data object now appears in the left Data Panel (see below). Once you finish adding data, exit the Data Browser by clicking either the **Close** button at the bottom left of the browser window or the arrow at the top right of the Data Panel.



Remember to save your work!
Don't forget to periodically save your Narrative by clicking the **Save** button at the top right of the Narrative Interface.



6 Choose an app to analyze your data

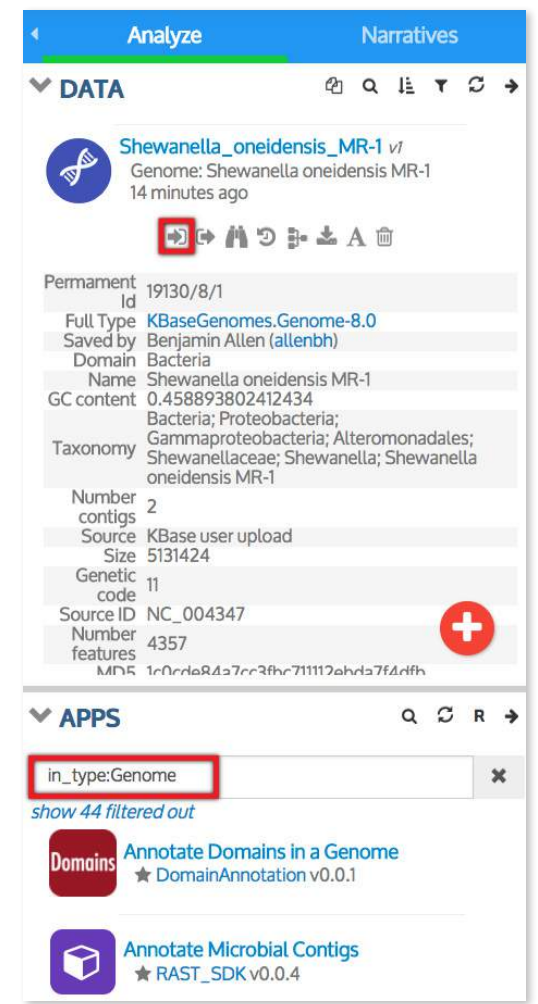
Once data is added to your Narrative, you can analyze it using one or more of the KBase apps (kbase.us/apps/) listed below your data.

You can quickly filter this list to display only the apps that work with a particular data object in your Narrative. To do this, click the data object to see its expanded view. The first icon in this view will show only the apps that can use your data as input; the second will display those that generate your selected data type as output.

In the example at right, the list has been filtered to show only apps that take genomes as input.

KBase's App Catalog provides even more options for browsing apps; designating them as favorites; and filtering them based on analysis type, popularity, and more. Access this catalog by clicking the arrow at the top right of the panel.

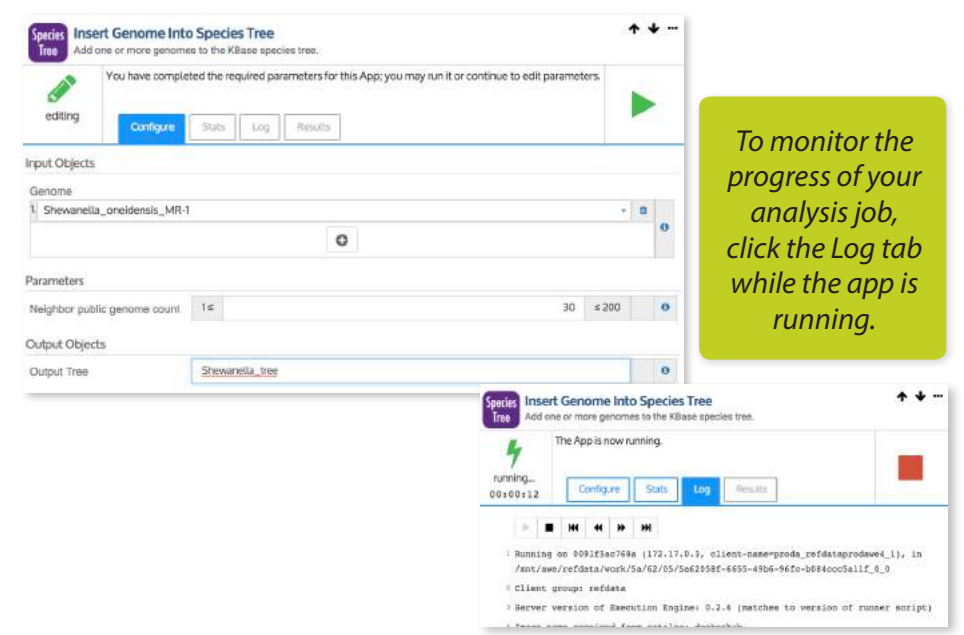
To add an app to your Narrative, click on its name in the panel or App Catalog.



7 Run the app

Fill in all the required fields in your app. Note that some fields are "smart" and know which data in your Narrative is valid for that field. These "smart" fields have a pulldown list of all the data objects from your Data Panel from which you can choose input.

As all required fields are specified, the red arrows next to those fields disappear, indicating that the app is ready to run. Click the green arrow to start the analysis.



To monitor the progress of your analysis job, click the Log tab while the app is running.