

i2 TextChart Standard

This is the placeholder topic that introduces i2 TextChart Standard, and the components that are available with this product.

Installing i2 TextChart

This topic describes how to install and activate i2 TextChart.

Before you begin

Important: If you are upgrading from an earlier version of i2 TextChart, follow the instructions in [Upgrading i2 TextChart](#) before you complete the procedure below.

Prerequisite software

The release notes contain a full list of the required software for i2 TextChart. You *must* install i2 Analyst's Notebook before you install i2 TextChart.

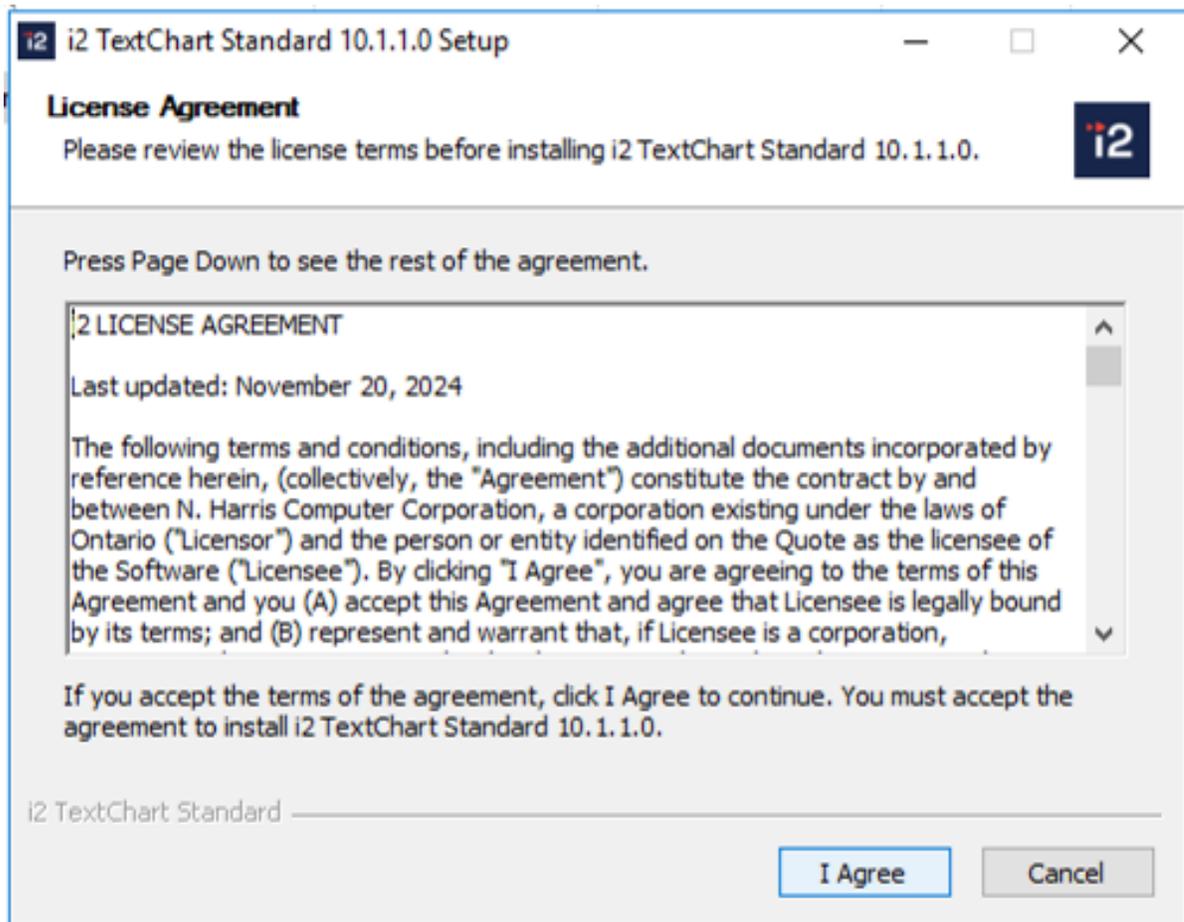
Optional configuration

i2 TextChart is supplied with an embedded database for local workspace storage. Optionally, you can [replace the embedded database](#) with Microsoft SQL Server 2014 or later.

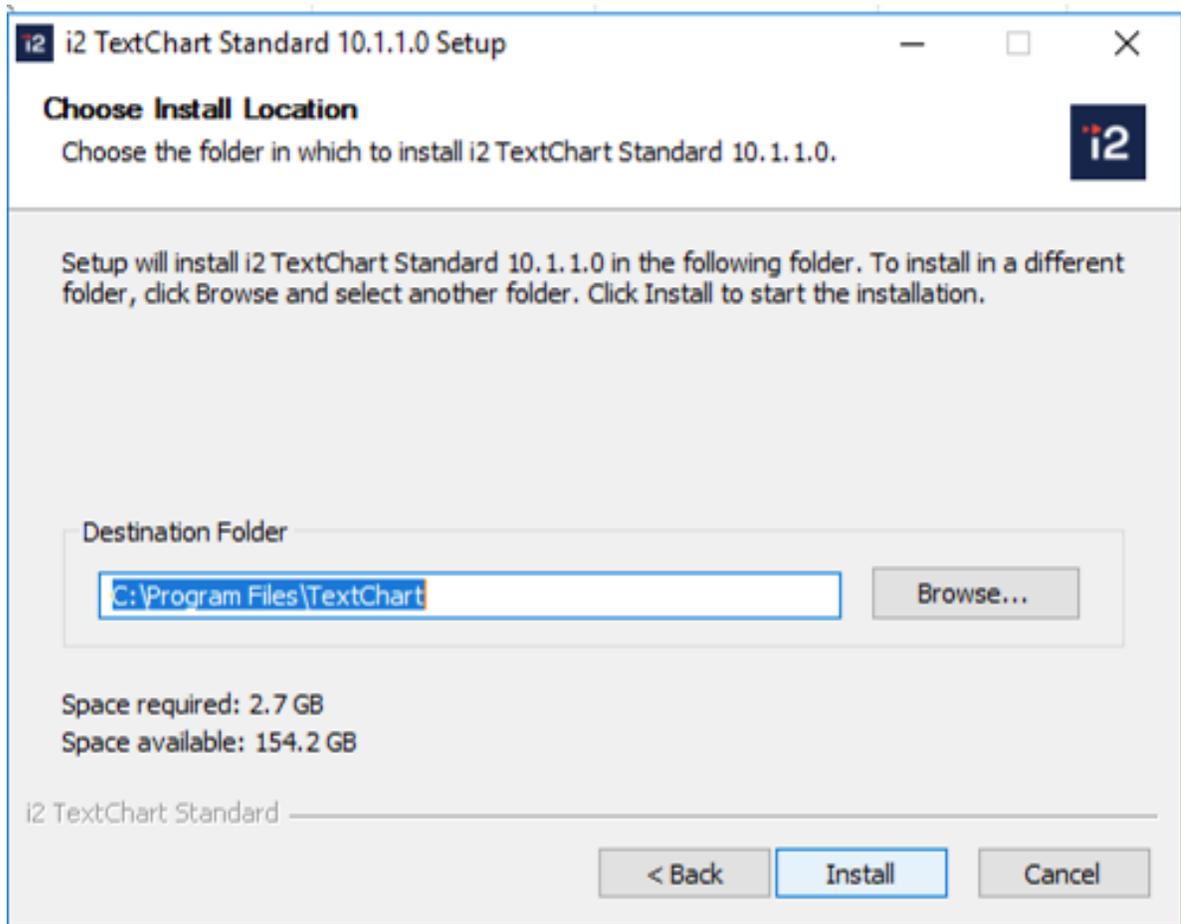
Procedure

The following steps describe how to install i2 TextChart.

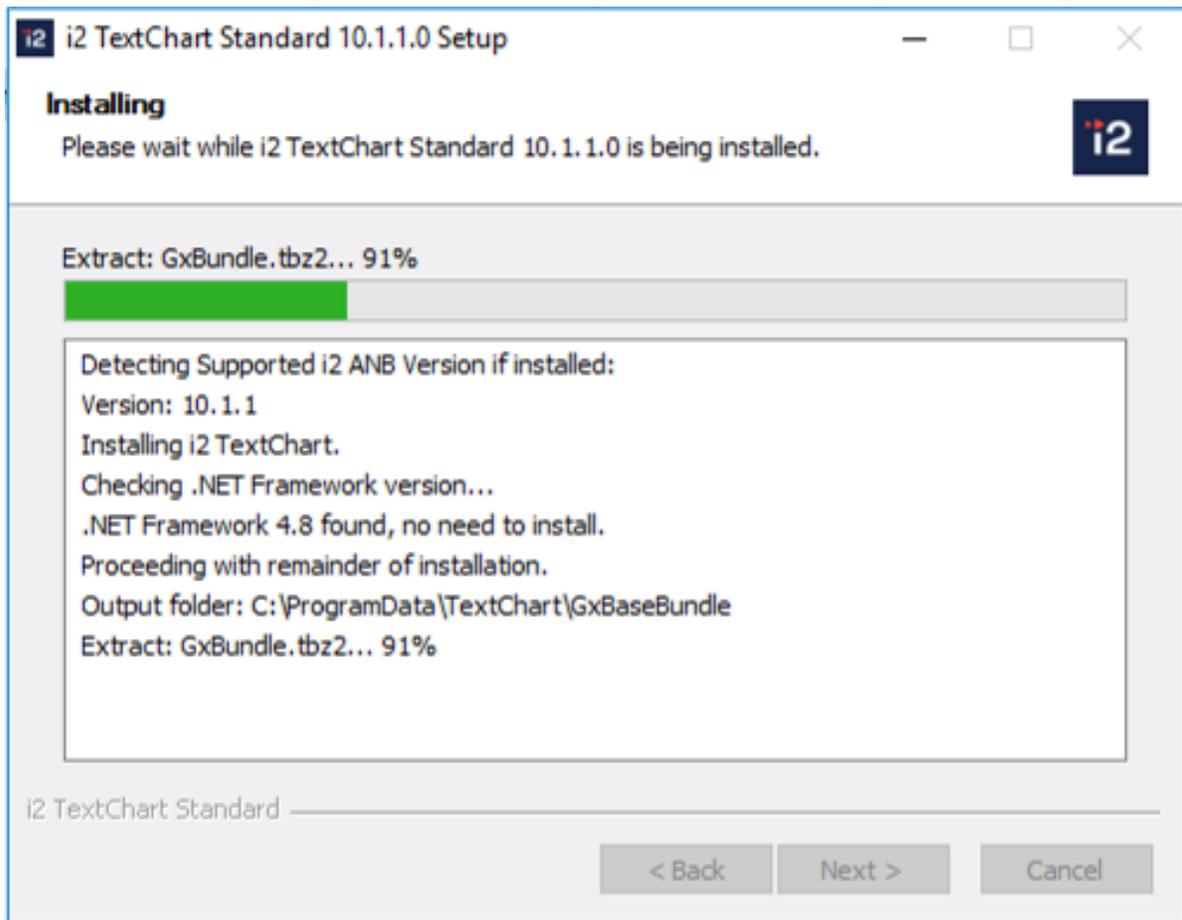
1. Extract the product files from your downloaded distribution.
2. Using Windows Explorer, browse to the root of the distribution and run the i2 TextChart Installer. Its name will contain the word "Standard" or "Premium", depending on which edition of i2 TextChart you're installing.
3. Follow the prompts. You must accept the license agreement to proceed. Click **I Agree**:



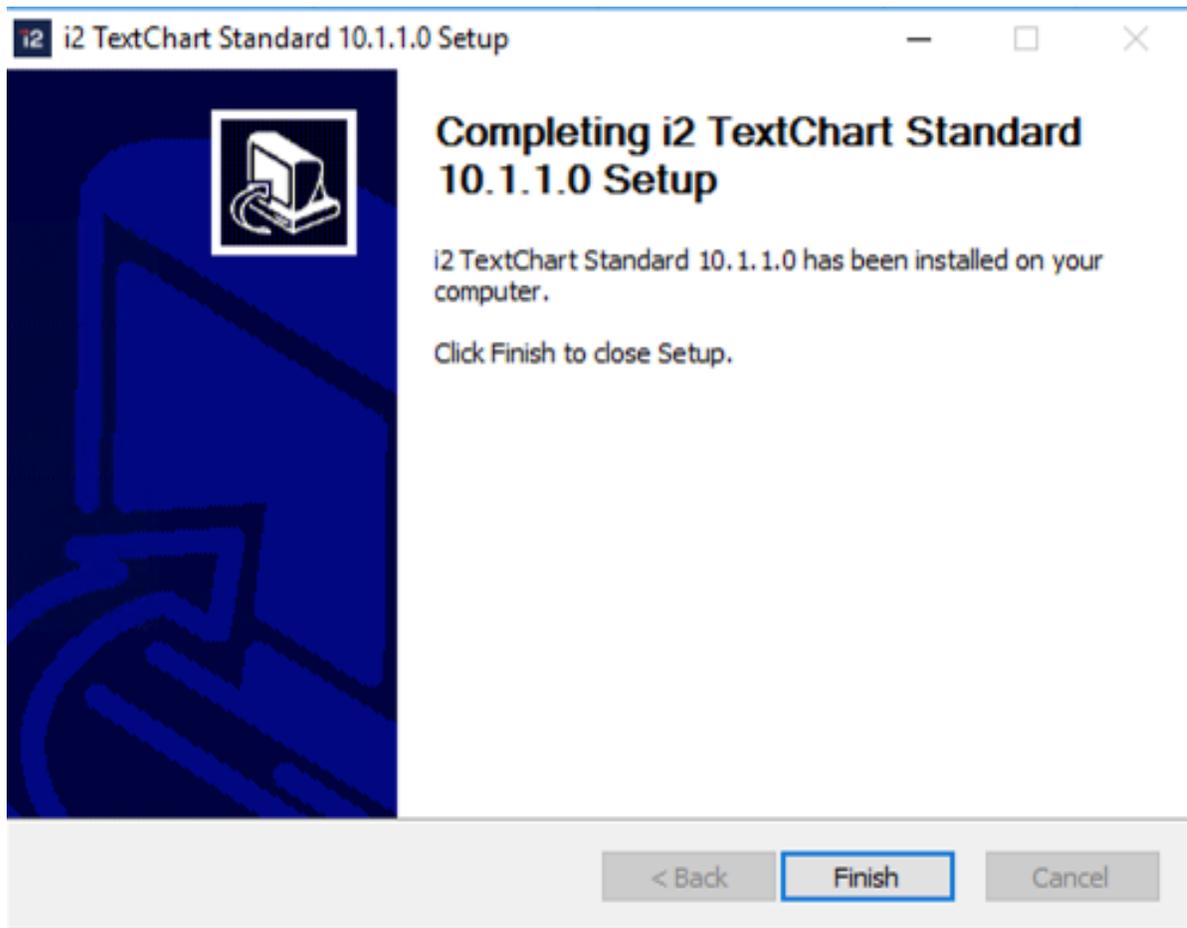
4. Choose the installation location and click **Install**:



5. When the installer is complete, click **Next**.



6. When setup is complete, click **Finish**.



Installing i2 TextChart Silently

The following steps describe how to install i2 TextChart silently:

1. Extract the product files from your downloaded distribution.
2. Using Windows Command Line Terminal, navigate to the root of the distribution and run the i2 TextChart Installer by issuing following command. Its name will contain the word "Standard" or "Premium", depending on which edition of i2 TextChart you're installing. Note that Analyst's Notebook is closed while installing the TextChart Text Analytics.

```
"i2 TextChart Standard-X.X.X.X-Installer.exe" /S
```

Note: If you need to uninstall i2 TextChart Text Analytics silently, you can do so by issuing following command. Note that Analyst's Notebook is closed while uninstalling the TextChart Text Analytics.

```
Uninstall.exe /S
```

Uninstall.exe should be available in installation directory, C:\Program Files\TextChart for example.

What to do next

When i2 TextChart is successfully installed, activated, and configured, the plug-in launches automatically when you open i2 Analyst's Notebook.

Note: If you need to stop i2 TextChart Text Analytics, you can do so through the Service Manager, which is available from the **i2 TextChart** menu in the Analyst's Notebook ribbon. To restart i2 TextChart Text Analytics, you must then restart Analyst's Notebook.

Configuring i2 TextChart

i2 TextChart is ready to use as soon as you install and activate it. However, to maintain and enhance its capabilities, TextChart also provides a range of options for configuring and updating it.

Changing the supported file extensions

The TextChart plug-in for Analyst's Notebook supports processing documents in a wide range of *formats* including plain text, PDF, and those that productivity applications generate. It uses file *extensions* to filter the documents that it presents for import, and you can change the configuration to display more or different files.

TextChart stores its list of file extensions in the file at `C:\ProgramData\TextChart\conf\filetypes.properties`. If an extension appears in this file, then documents with that extension appear in the Document View. By default, TextChart presents documents with the following extensions:

```
txt
rtf
pdf
doc
docx
pptx
```

The default `filetypes.properties` file also specifies that TextChart should present files that have no extension for import.

If your organization uses extensions that are not in the default list, you must add them to it. For example, you might have older Microsoft Powerpoint files with the `.ppt` extension, or plain text files that use a custom extension.

After you make changes to the list of supported file extensions, reinitialize the TextChart plug-in by closing and reopening the Analyst's Notebook application.

Changing the local database

By default, the standard edition of i2 TextChart uses its embedded database for storing the information that it generates during analysis. Optionally, you can configure TextChart standard edition to use a local Microsoft SQL Server database instead.

Before you begin

Choosing a SQL Server database in place of the embedded one enables you to inspect its contents directly. TextChart supports SQL Server 2014 and later, including the Express edition.

To configure TextChart to use a local SQL Server database, you use the Text Analytics Configuration application, which you also used to provide TextChart with a license key during installation.

To run the application after installation, you can start it from the Windows Start menu, or by launching the executable at `C:\Program Files\TextChart\RosokaConfiguration.exe`.

Procedure

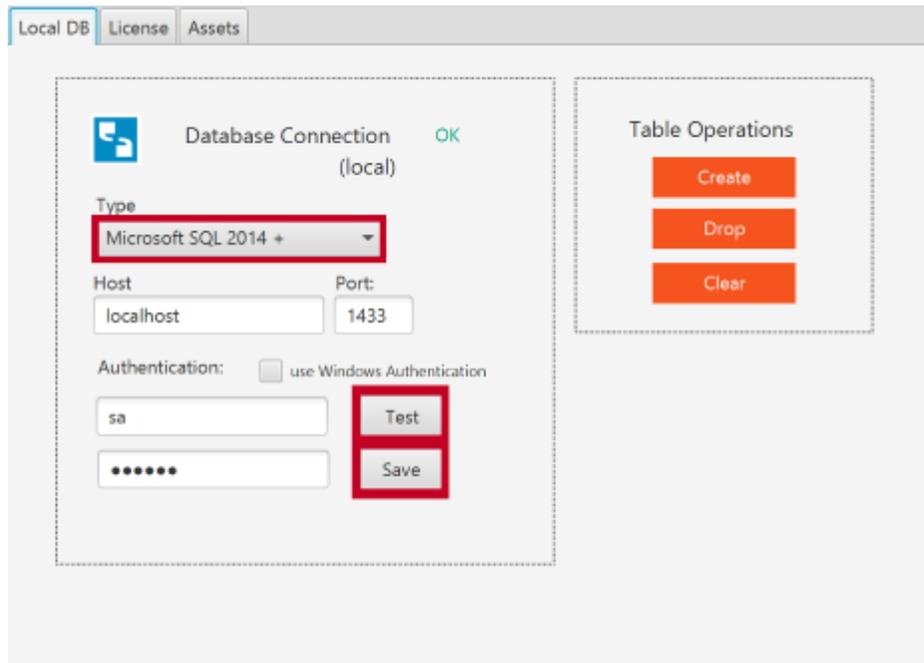
Assuming that you have already set up a SQL Server database for TextChart to use, the procedure for connecting to it is as follows.

Note: If you want to create a database account for TextChart to use, or to change the port on which SQL Server accepts connections, see the instructions in [Database configuration](#).

1. On the **Local DB** tab of the TextChart Text Analytics Configuration application, select your database from the **Type** drop-down, and ensure that the **Host** and **Port** details are correct.

Note: For the standard edition of TextChart, the host must be the same workstation that TextChart and Analyst's Notebook are installed on.

2. In the **Authentication** fields, provide the user name and password of a database account with administrator privileges.



3. Click **Test** to verify that the information you provided is correct. If the test is successful, click **Save**.

Note: If you see the "Driver not Present" error message, you need to add the appropriate JAR file to the `C:\Program Files\TextChart\Drivers` directory, relaunch the configuration application, and try again.

Drivers for Microsoft databases are included, drivers for MySQL are available from [the MySQL website](#), and drivers for Db2 are available as part of your Db2 installation.

What to do next

If you need to change the configuration of the local database after you've begun to use i2 TextChart, you must close Analyst's Notebook and ensure that the TextChart application is no longer running before repeating the above procedure.

Note: After you change the configuration to use a different database from the one you've been using, you might need to re-create your collections and reprocess the documents they contained.

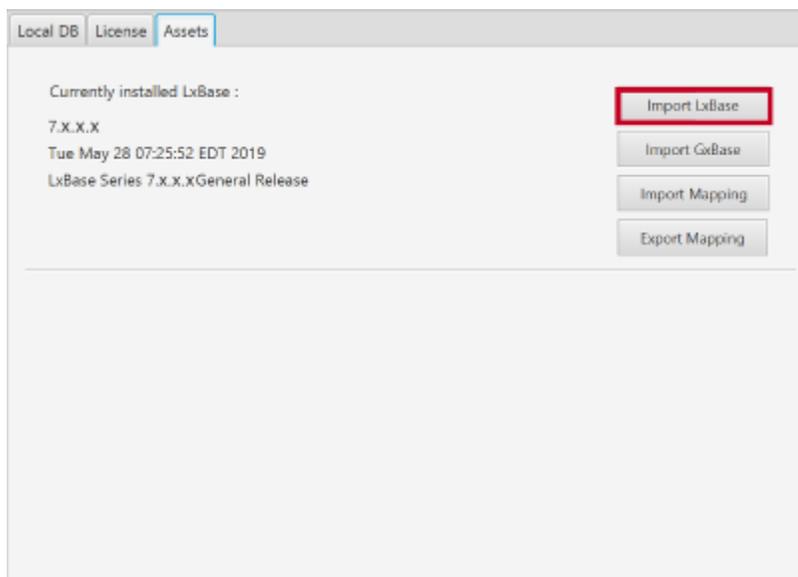
Updating an LxBase

In i2 TextChart, an LxBase is the collection of linguistic rules and dictionary entries that govern text extraction. From time to time, i2 publishes updates that you can apply to the LxBase in your installation.

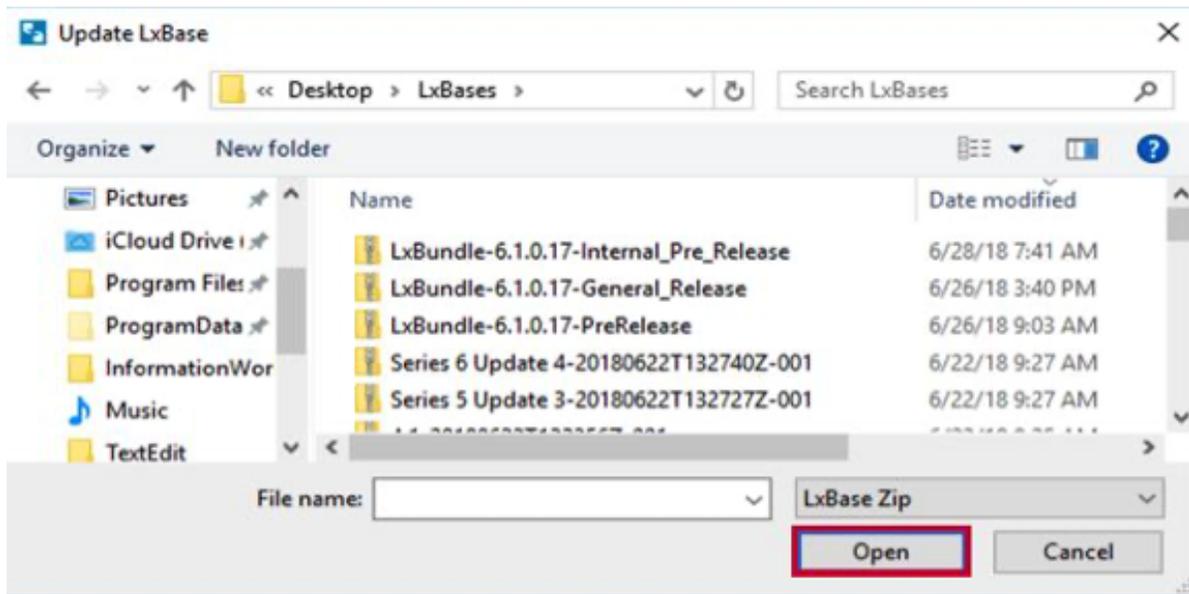
Procedure

To update your LxBase, you use the TextChart Text Analytics Configuration application to provide i2 TextChart with the location of a ZIP file that contains the new information.

1. Open the configuration application and select the **Assets** tab:

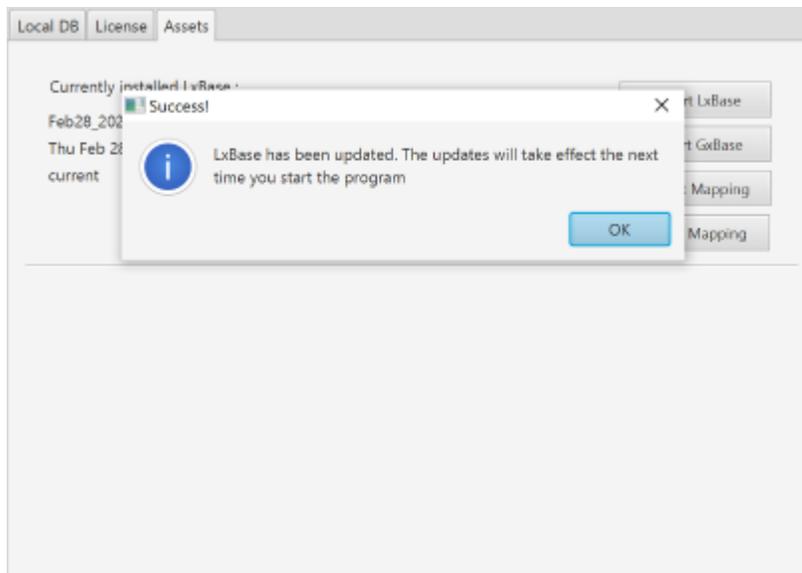


2. Click **Import LxBase**, navigate to the new ZIP file, and click **Open**.



i2 TextChart automatically updates your LxBase with information from the file.

3. When the following dialog appears, click **OK**:



The changes and updates will take effect when you restart Analyst's Notebook.

Note: i2 TextChart backs up the previous version of your LxBase in C:\ProgramData\TextChart, in a directory named LxBase-backup-<TIMESTAMP>. To restore a backup, delete the LxBase directory, and then rename the backup to LxBase.

Upgrading i2 TextChart Standard

Upgrading i2 TextChart Standard requires a complete uninstallation of the previous version before installing the new release. This procedure ensures a clean installation and prevents potential conflicts between versions.

About this task

The upgrade process consists of the following stages:

1. Back up your existing database configuration
2. Uninstall the current version of i2 TextChart Standard
3. Install the new version using the standard installation procedure

Prerequisites

Before beginning the upgrade:

- Ensure you have administrator privileges on the workstation
- Verify i2 TextChart Standard and i2 Analyst's Notebook are closed
- Obtain the installation package for the new version
- Close all related applications before starting the upgrade process

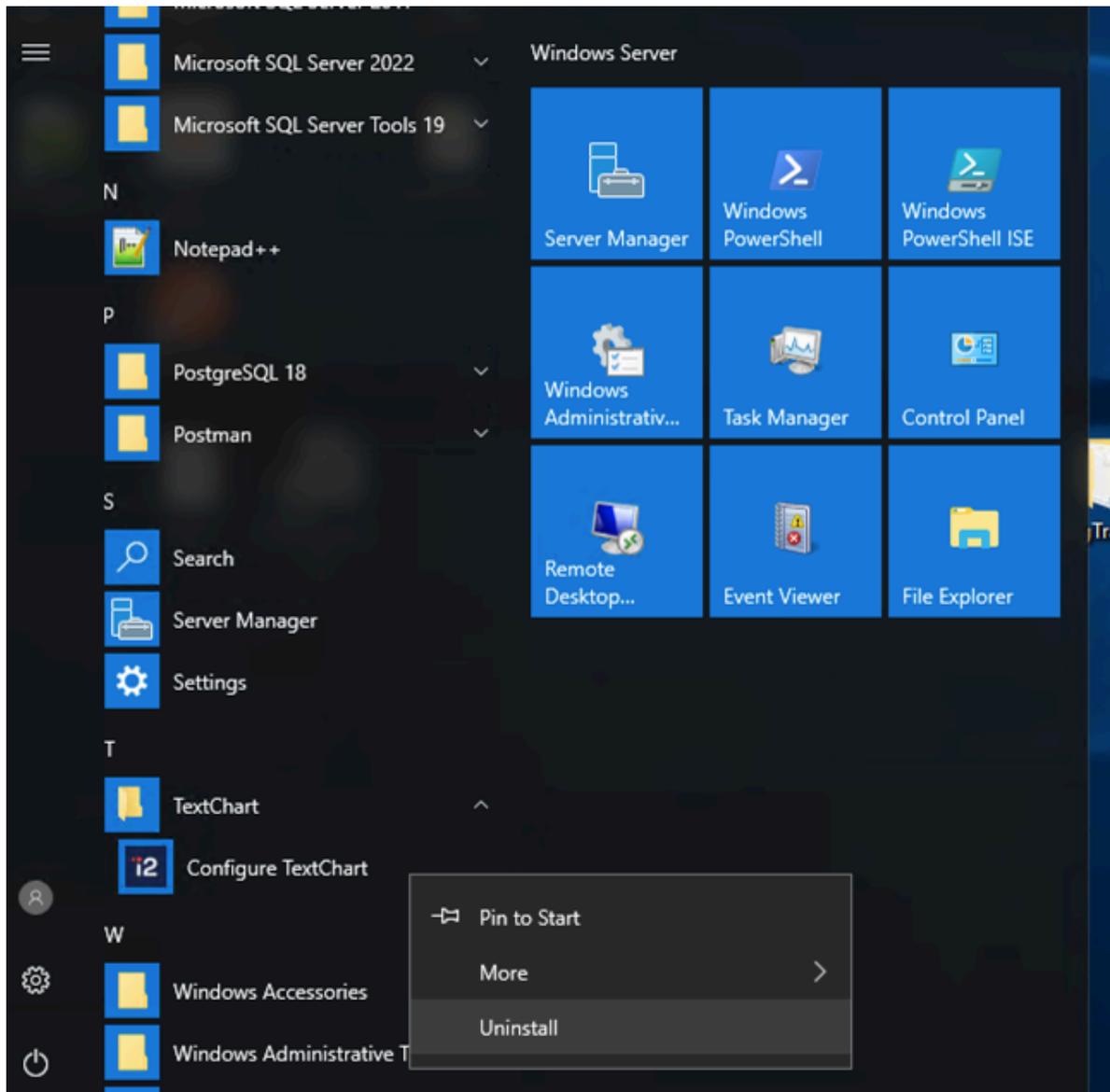
Procedure

Step 1: Prepare for the upgrade

1. Close i2 Analyst's Notebook.
2. If you are using a local TextChart database, create a backup:
 - a. **For SQL Server databases:** Use SQL Server Management Studio or other database administration tools to create a full backup of your TextChart database.
 - b. **For embedded databases:** Navigate to the database directory at `C:\ProgramData\TextChart\databases\Rosoka` (or `C:\ProgramData\Rosoka\TextAnalytics\databases\Rosoka` for older versions) and create a copy of the entire folder structure.

Step 2: Uninstall the current version

1. Uninstall i2 TextChart Standard using one of the following methods:
 - From the Windows Start menu, locate and run the TextChart uninstaller
 - Navigate to `C:\Program Files\TextChart\` and execute `Uninstall.exe`
 - Use Windows **Add or Remove Programs** from the Control Panel



2. Follow the uninstaller prompts and wait for the process to complete before proceeding.

Step 3: Install the new version

After successful removal of the previous version, install the new version by following the procedures documented in [Installing i2 TextChart Standard](#).

What's next

After completing the installation, restore your database content from the backup created in Step 1, if required. Test the installation by processing a sample document to verify that all components are functioning correctly.

Consider reviewing the release notes for the new version to understand any new features or configuration changes that may benefit your deployment.

Other configuration

i2 TextChart provides a few ways to modify its behavior so that it works better in your environment. For example, you can adjust the amount of memory available to the extraction process, and change the way TextChart authenticates with the database.

Memory configuration

If you experience poor performance, especially during processing of large files, you can change the size of the JVM heap by editing the configuration file at `C:\Program Files\TextChart\RosokaServiceCore.l4j.ini`.

To adjust memory allocation, which defaults to 4 GB, change:

```
-Xms4g
-Xmx4g
```

to:

```
-Xms<GB_OF_RAM_TO_ALLOCATE>g
-Xmx<GB_OF_RAM_TO_ALLOCATE>g
```

For example, to set it to 8 GB, the two lines would be:

```
-Xms8g
-Xmx8g
```

Database configuration (SQL Server)

TextChart authenticates with SQL Server through database user credentials rather than operating system credentials. You need to ensure that your installation of SQL Server is configured appropriately.

Setting mixed authentication

1. Open SQL Server Management Studio.
2. From the Authentication drop-down list, select **Windows Authentication**.
3. Click **Connect**.
4. Right-click the SQL instance and choose **Properties** to open the Server Properties window.
5. In the **Select a page** list, click **Security**.
6. In the **Server authentication** section, choose **SQL Server and Windows Authentication mode**.
7. Click **OK** to close the Server Properties window.
8. Right-click the SQL instance and choose **Restart**.
9. Click **Yes** to restart the SQL server.

Enabling the 'sa' user

1. Open SQL Server Management Studio.
2. From the Authentication drop-down list, select **Windows Authentication**.
3. Click **Connect**.
4. In the Object Explorer, expand **Security** and then expand **Logins**.
5. Right-click **sa**, and click **Properties**.

6. In the **Select a page** list, click **Status**, and then change the **Login** setting to **Enabled**.

Note: You might need to set a password for this account as well.

7. Click **OK** to close the Login Properties window.
8. Press *F5* to refresh the information in the Object Explorer.

Changing TCP and port settings

1. From the **Start** menu, right-click **My Computer**, and then select **Manage**.
2. In the Computer Management window, expand **Services and Applications > SQL Server Configuration Manager > SQL Server Network Configuration**.
3. Select the instance for your installation. By default, this is **Protocols for SQLEXPRESS**.
4. Change the **Named Pipes** protocol option to **Enabled**. You do not need to change the default **Pipe Name** setting.
5. Change the TCP/IP protocol option to **Enabled**, and then open its **Properties** dialog.
6. In the **IP Addresses** tab, scroll down to **IPAll** at the bottom of the list.
7. Set **TCP Port** to 1433, and remove any value from **TCP Dynamic Ports**.
8. Click **Apply**. You will be prompted to restart SQL Server.
9. Restart the server for the changes to take effect.

Importing and processing documents

The i2 TextChart plug-in for Analyst's Notebook processes documents to extract information about the things they describe and the connections between them. You can add the extracted information to your charts in the form of entities and links.

Entity processing

Entities are the important, named items, such as the people, places, and events that a document describes. i2 TextChart uses the linguistic context of the document to determine what words or phrases are extracted as entities.

After processing, you can modify entity extraction results and apply your own knowledge before sending results to a chart.

Note: The [LxBase documentation](#) includes a list of all the entity types that TextChart understands, with their corresponding definitions.

Link processing

Links are relationships between two entities that i2 TextChart establishes through linguistic context. In extraction results, links appear in the form `<Entity>To<Entity>`. For example, `PersonToPerson` means that there is a link between one Person entity and another Person entity.

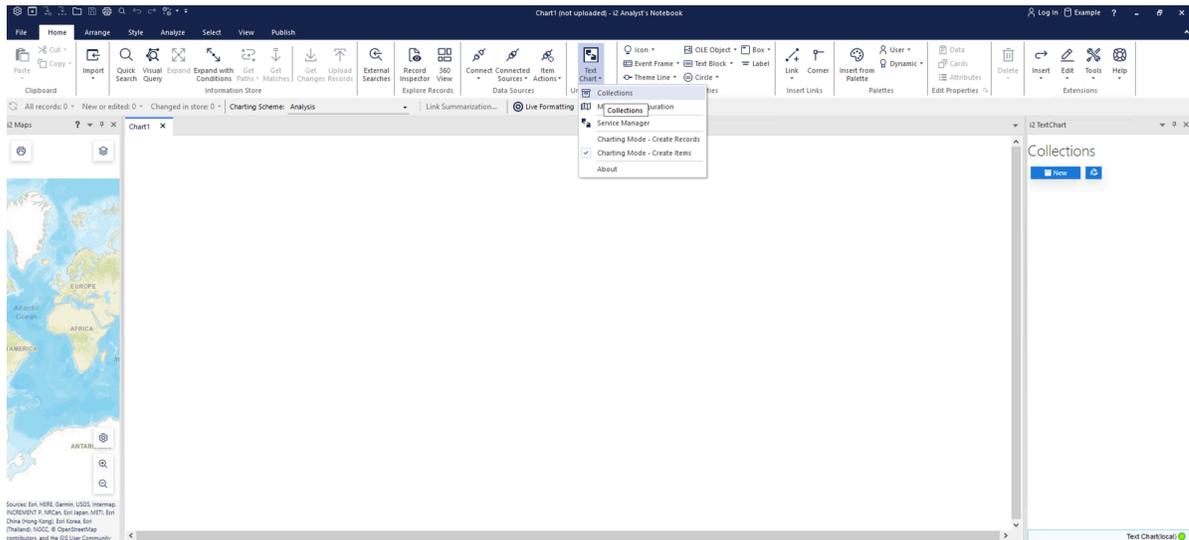
The predicate (that is, the reason why i2 TextChart identified the link) is stored with the link. If the predicate is "interviewed", then the link indicates that a Person interviewed another Person.

Note: The LxBase documentation includes a list of all the predicate types that TextChart understands.

Importing documents

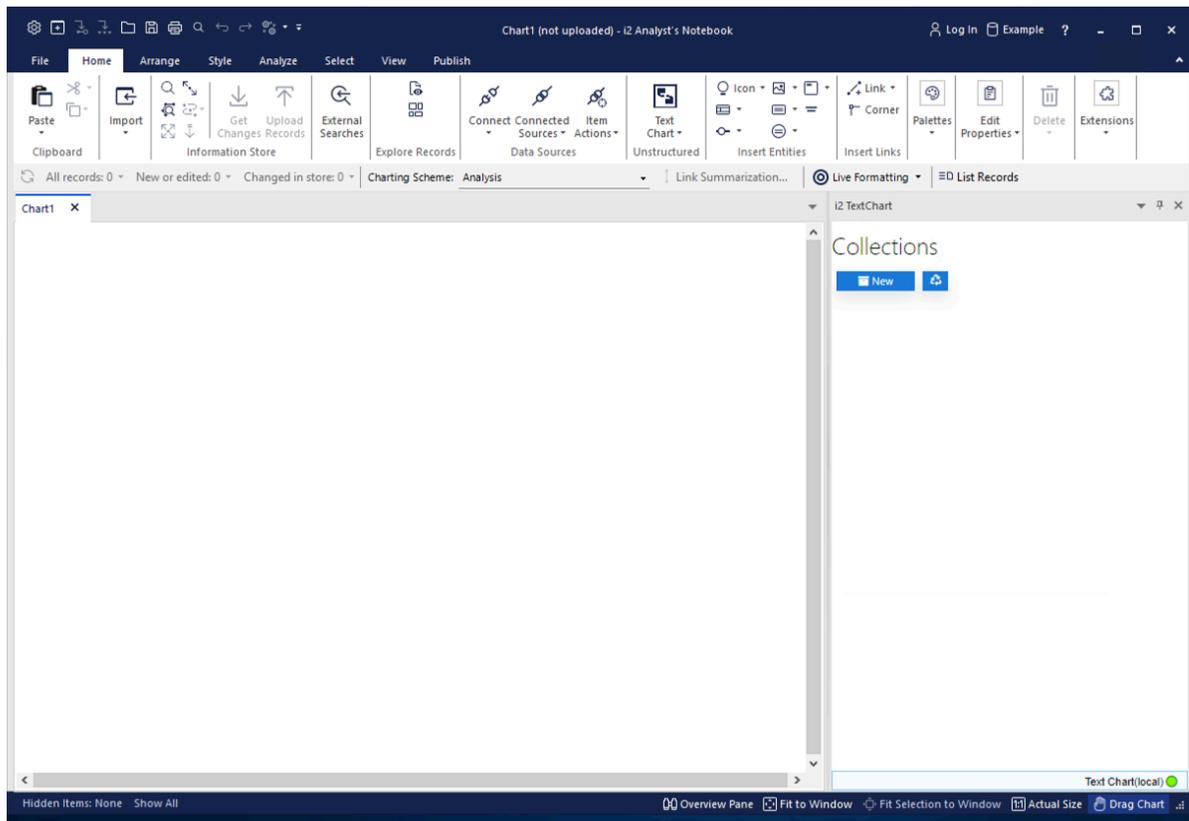
To use i2 TextChart, the first step is to import the documents that you want to analyze.

1. In Analyst's Notebook, select the **Text Analytics** menu in the **Home** tab, and then click **Collections**.

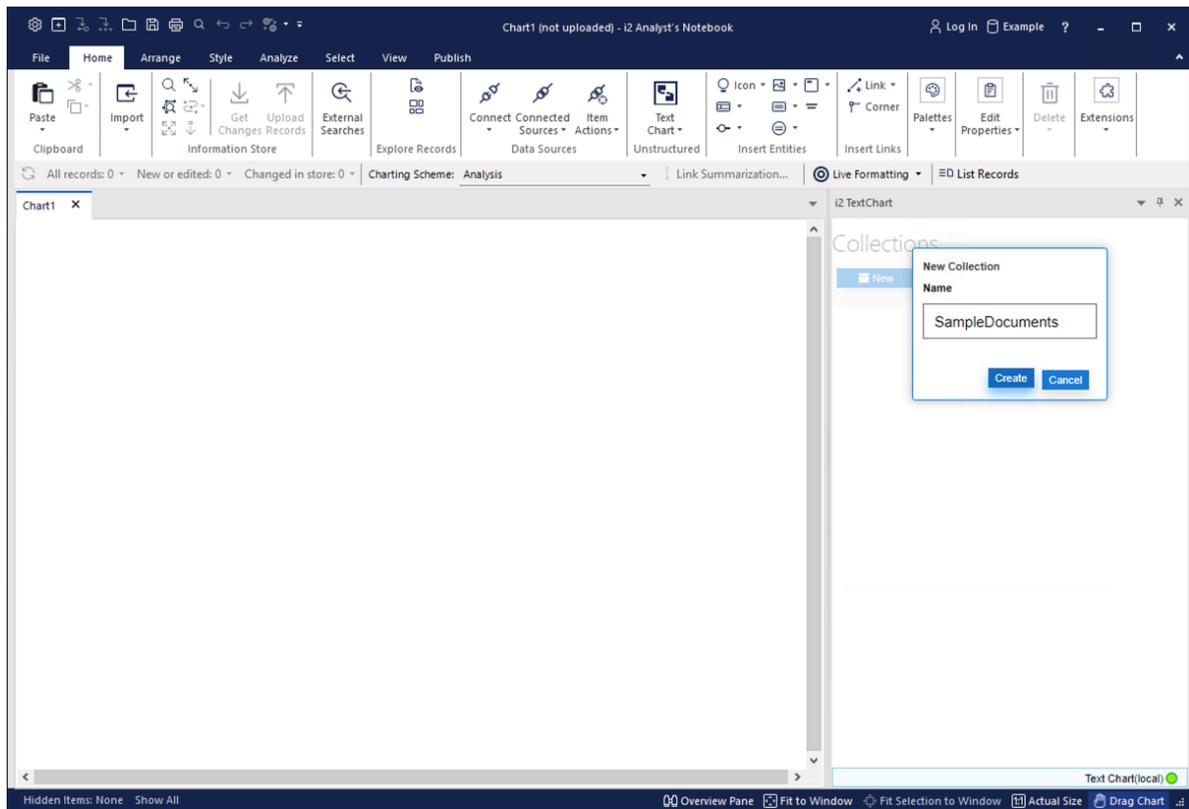


Note: The Mapping Configuration option is available only in the standard edition of TextChart. In TextChart Premium, mapping takes place on the server.

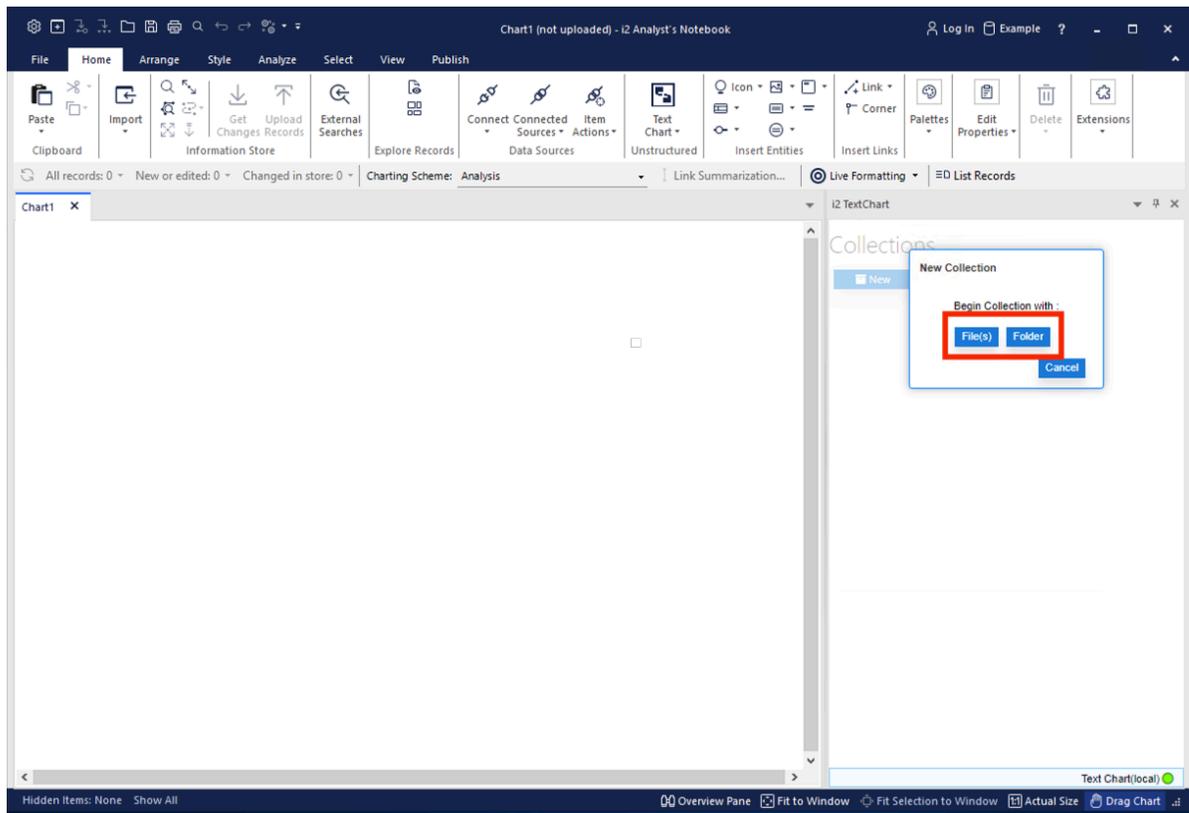
2. i2 TextChart stores documents in *collections*. A collection contains one or more documents that you choose to be in the same group for processing. You can start a new collection for the documents that you're importing, or add them to an existing one.



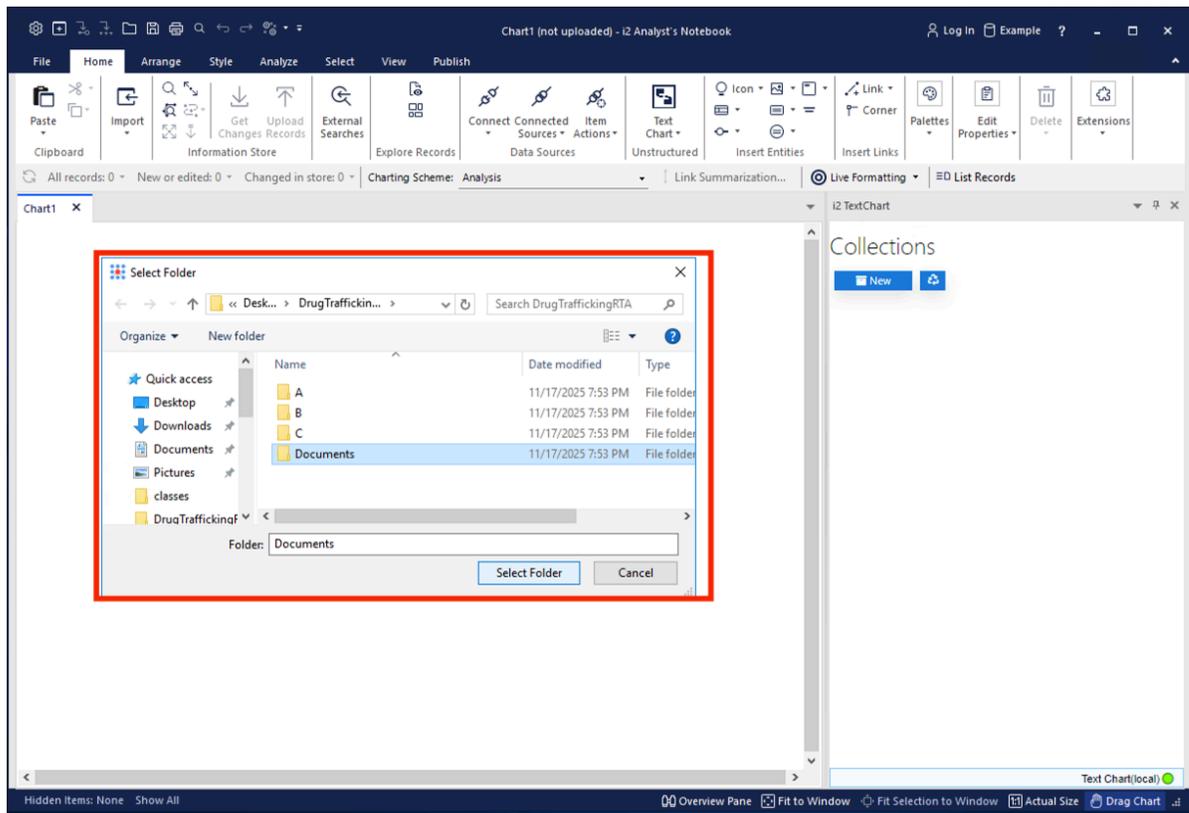
3. If you clicked **New**, provide a name for the new collection and click **Create**.



And then specify whether to populate the new collection with files or a folder.



4. Finally, select the files (or the folder that contains the files) that you want to import.

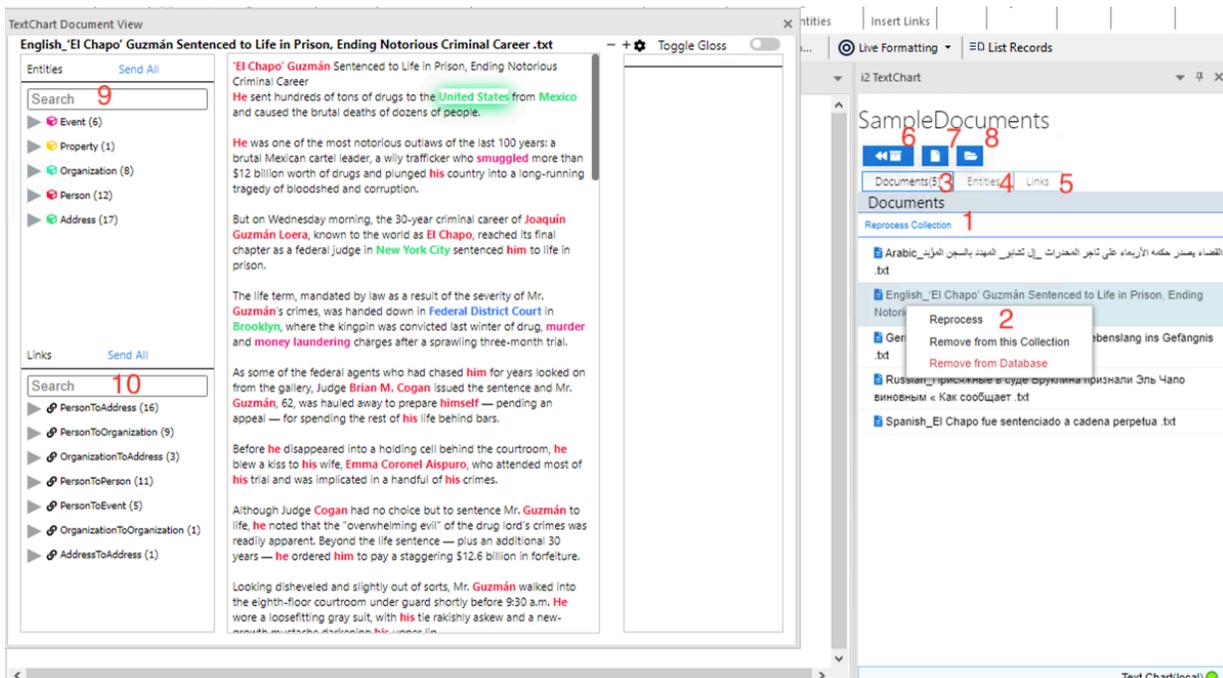


Processing documents

After you import documents into a collection, you can instruct TextChart to process them all at the same time, or to process each document separately.

Note: When you process documents for the first time, it can take a few seconds for the engine to load. Also, larger documents generally take longer to process than shorter ones. TextChart displays a spinning cursor while long-running operations take place.

The documents in a particular collection appear as a list in Analyst's Notebook, from which you can perform a number of tasks. Clicking a single document in the list processes that document and opens it in the Document View. Some of the other tasks are described below.



1. Process Collection

When you click **Process Collection**, TextChart processes all the documents in the list that it has not already processed. The progress bar at the top of the pane shows the status of the operation. After each document is processed, its page icon turns blue.

Canceling the operation stops processing for the current and subsequent documents in the collection. You can also ask TextChart to reprocess *all* documents in the collection, regardless of whether they've been processed before.

2. Reprocess / Remove from this Collection / Remove from Database

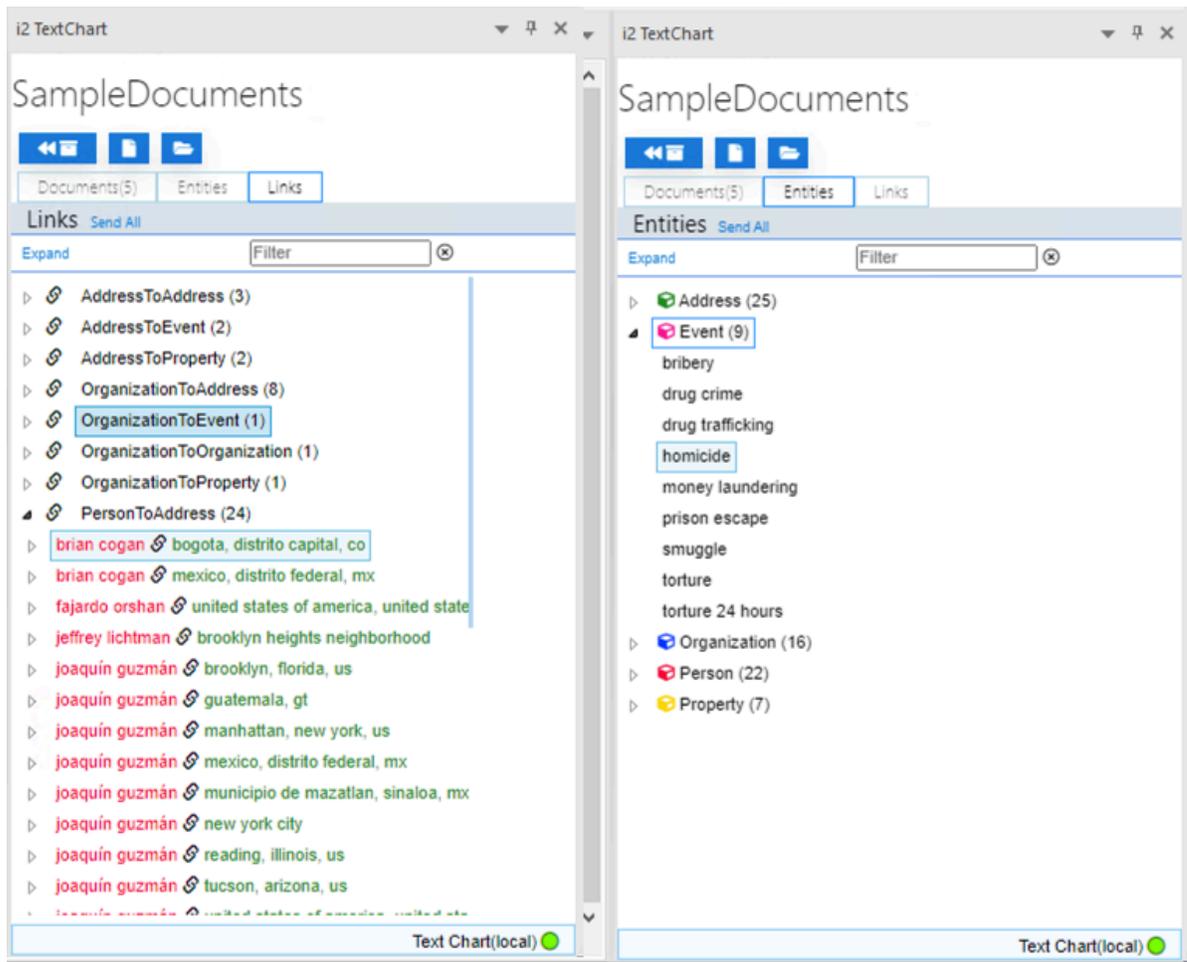
If you right-click a single document in the list, the pop-up menu presents commands to reprocess the document, or to remove it from the collection, or to remove its processing results from the database.

3. Documents

The Documents tab displays a count of the documents in the collection.

4. Entities

The Entities tab contains an entity tree, which lists the TextChart types of all the found entities in processed documents, as well as the count of each type of entity.



5. Links

The Links tab contains a link tree that lists the TextChart types of all the found links in processed documents, as well as the count of each type of link.

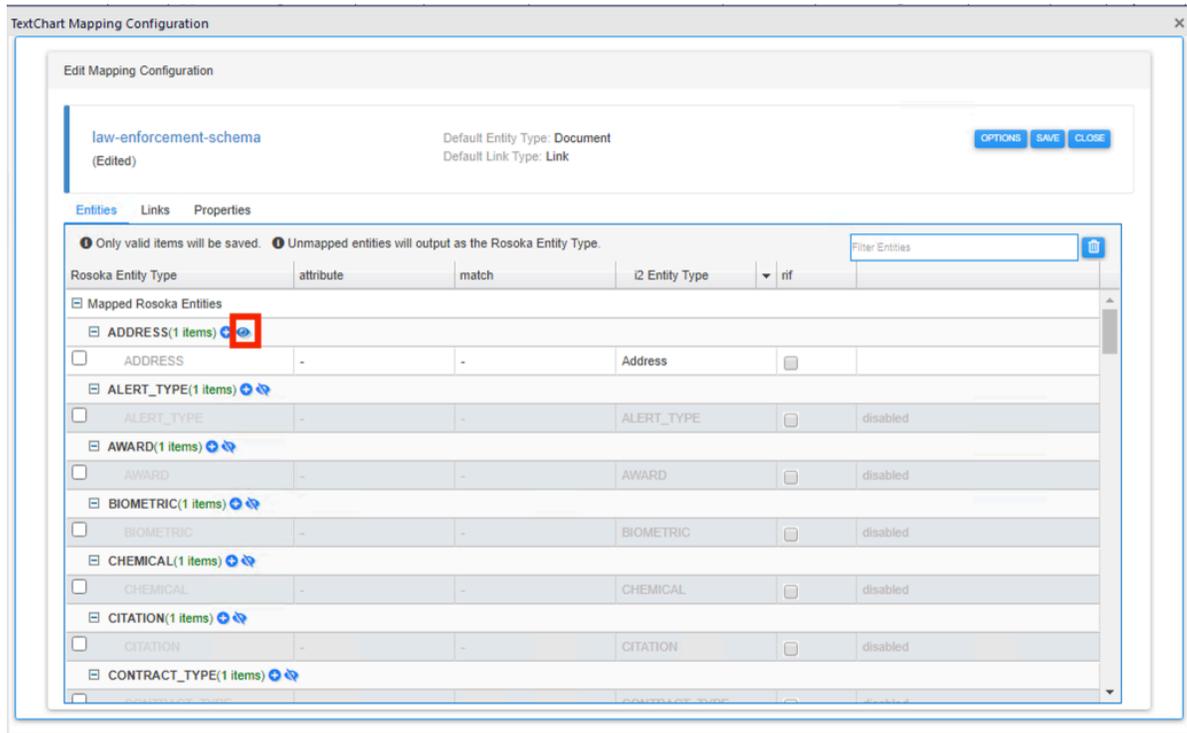
You can expand the link types in the tree view to see lists of the individual links and the predicate types that TextChart identified during processing.

6. Click **Back to Collections** to return to the list of collections.
7. Click **Add More Files** to add more files to the current collection.
8. Click **Add Directory to Collection** to add all the documents in a particular directory to the current collection.

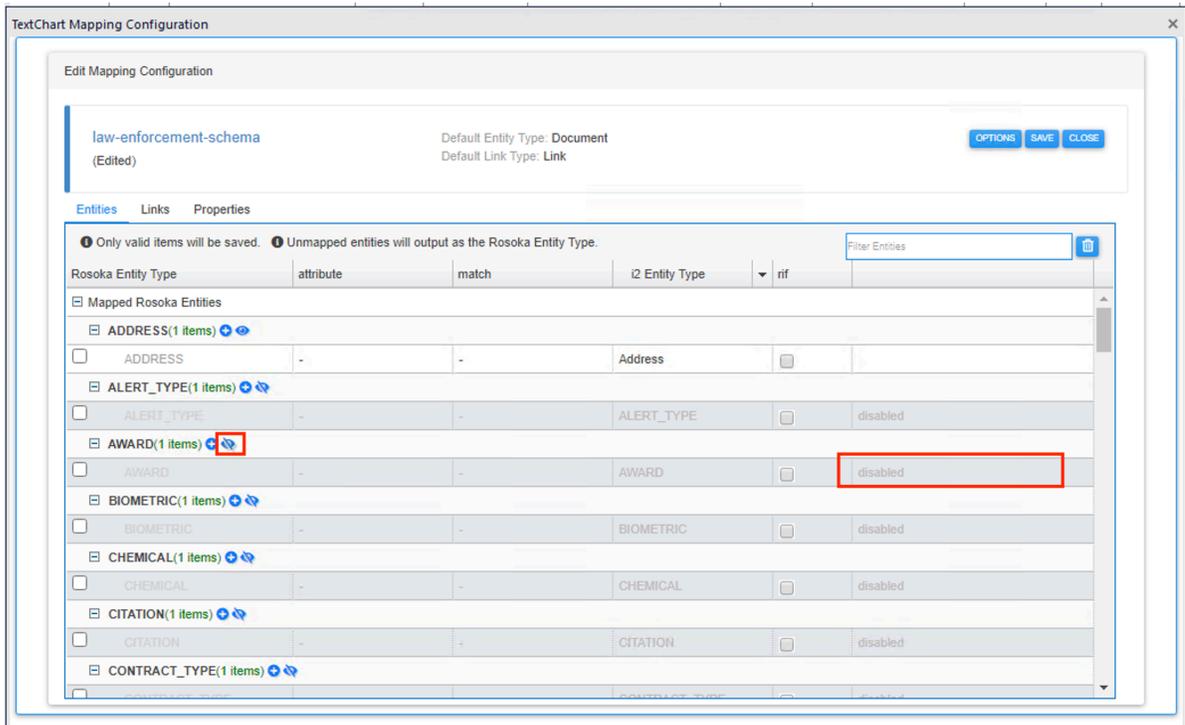
Ignoring TextChart entity, link, or attribute types

By default, TextChart attempts to find entities and links of all the types that it understands, and values for all the attributes they can contain. If there are some types that you don't want TextChart to extract, you can disable them through the Mapping Configuration.

1. From the Analyst's Notebook ribbon, select **Text Analytics > Mapping Configuration** to open the Mapping Configuration window.
2. Click **Edit** to display the configuration settings for the active mapping. The left column of the **Entities**, **Links**, and **Properties** tabs contains a list of TextChart types.



3. Click the "eyeball" icon next to the name of any type that TextChart should not extract from the documents it processes.



- If you processed some documents before changing these settings, clear those results and reprocess the documents.

Viewing documents

After TextChart processes a document (or the first of several documents), it opens the Document View window, which presents an enriched view of the processed text.

The Document View highlights all of the found entities in context, using different colors for different types. In this view, you can review and curate the entities that TextChart identified.

The screenshot shows the TextChart Document View interface. The window title is "TextChart Document View" and the document title is "English 'El Chapo' Guzmán Sentenced to Life in Prison, Ending Notorious Criminal Career .txt".

Entities Panel (Left):

- Send All
- Search
- Event (6)
- Property (1)
- Organization (8)
- Person (12)
- Address (17)

Links Panel (Left):

- Send All
- Search
- PersonToAddress (16)
- PersonToOrganization (9)
- OrganizationToAddress (3)
- PersonToPerson (11)
- PersonToEvent (5)
- OrganizationToOrganization (1)
- AddressToAddress (1)

Main Document Text (Center):

'El Chapo' Guzmán Sentenced to Life in Prison, Ending Notorious Criminal Career
 He sent hundreds of tons of drugs to the **United States** from **Mexico** and caused the brutal deaths of dozens of people.

He was one of the most notorious outlaws of the last 100 years: a brutal Mexican cartel leader, a wily trafficker who **smuggled** more than \$12 billion worth of drugs and plunged **his** country into a long-running tragedy of bloodshed and corruption.

But on Wednesday morning, the 30-year criminal career of **Joaquín Guzmán Loera**, known to the world as **El Chapo**, reached its final chapter as a federal judge in **New York City** sentenced **him** to life in prison.

The life term, mandated by law as a result of the severity of Mr. **Guzmán's** crimes, was handed down in **Federal District Court** in **Brooklyn**, where the kingpin was convicted last winter of drug, **murder** and **money laundering** charges after a sprawling three-month trial.

As some of the federal agents who had chased **him** for years looked on from the gallery, Judge **Brian M. Cogan** issued the sentence and Mr. **Guzmán**, 62, was hauled away to prepare **himself** — pending an appeal — for spending the rest of **his** life behind bars.

Before **he** disappeared into a holding cell behind the courtroom, **he** blew a kiss to **his** wife, **Emma Coronel Aispuro**, who attended most of **his** trial and was implicated in a handful of **his** crimes.

Although Judge **Cogan** had no choice but to sentence Mr. **Guzmán** to life, **he** noted that the "overwhelming evil" of the drug lord's crimes was readily apparent. Beyond the life sentence — plus an additional 30 years — **he** ordered **him** to pay a staggering \$12.6 billion in forfeiture.

Looking disheveled and slightly out of sorts, Mr. **Guzmán** walked into the eighth-floor courtroom under guard shortly before 9:30 a.m. **He** wore a loosefitting gray suit, with **his** tie rakishly askew and a new-growth mustache darkening **his** upper lip.

Reading from a prepared statement, **he** said **he** had not received a fair trial and complained about **his** solitary confinement in **Manhattan's** federal jail, calling it "psychological, emotional and mental **torture 24 hours** a day."

"Since the government of the **United States** is going to send me to a prison where my name **will** never be heard again, I take advantage of this opportunity to say there was no justice here," **he** said.

Though Judge **Cogan** did not specify where Mr. **Guzmán** would serve **his** sentence, **he** is likely to be sent to the country's most forbidding federal prison, the **United States Penitentiary Administrative Maximum Facility**, or **ADX-F**.

1. The button at the upper left of the window opens entity and link trees for the current document.

The screenshot displays the TextChart Document View interface. The main window shows a document titled "English, 'El Chapo' Guzmán Sentenced to Life in Prison, Ending Notorious Criminal Career .txt". The document text is highlighted with red boxes around specific entities and links. The sidebar on the left is divided into two sections: "Entities" and "Links".

Entities Section:

- Search: [Search Box]
- Event (6)
- Property (1)
- Organization (8)
- Person (12)
- Address (17)

Links Section:

- Search: [Search Box]
- PersonToAddress (16)
- PersonToOrganization (9)
- OrganizationToAddress (3)
- PersonToPerson (11)
- PersonToEvent (5)
- OrganizationToOrganization (1)
- AddressToAddress (1)

Main Document Content:

'El Chapo' Guzmán Sentenced to Life in Prison, Ending Notorious Criminal Career
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He was one of the most notorious outlaws of the last 100 years: a brutal Mexican cartel leader, a wily trafficker who smuggled more than \$12 billion worth of drugs and plunged his country into a long-running tragedy of bloodshed and corruption.

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The life term, mandated by law as a result of the severity of Mr. Guzmán's crimes, was handed down in Federal District Court in Brooklyn, where the kingpin was convicted last winter of drug, murder and money laundering charges after a sprawling three-month trial.

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The trees behave initially like the ones in the list for all the documents in a collection. However, when you select entities and links (or groups of them), TextChart highlights them in the open document and displays a second panel that contains more information.

TextChart Document View

English, 'El Chapo' Guzmán Sentenced to Life in Prison, Ending Notorious Criminal Career.txt

Entities [Send All](#)

Search

- Organization (8)
- Person (12)
 - joaquin guzmán
 - brian m. cogan
 - Gender : male
 - Family Name : cogan
 - rosoka.convention : western
 - First (Given) Name : brian
 - rosoka.second_given_name : m.
 - rosoka.occupation : judge
 - emma coronel aispuro
 - will
 - emma coronel aispuro

Links [Send All](#)

Search

- PersonToAddress (16)
- PersonToOrganization (9)
- OrganizationToAddress (3)
- PersonToPerson (11)
- PersonToEvent (5)
 - joaquin guzmán prison
 - escape
 - charged_with
 - joaquin guzmán prison
 - escape
 - joaquin guzmán smuggle

He was one of the most notorious outlaws of the last 100 years: a brutal Mexican cartel leader, a wily trafficker who smuggled more than \$12 billion worth of drugs and plunged his country into a long-running tragedy of bloodshed and corruption.

But on Wednesday morning, the 30-year criminal career of **Joaquín Guzmán Loera**, known to the world as **El Chapo**, reached its final chapter as a federal judge in **New York City** sentenced him to life in prison.

The life term, mandated by law as a result of the severity of Mr. Guzmán's crimes, was handed down in **Federal District Court** in **Brooklyn**, where the kingpin was convicted last winter of drug, murder and money laundering charges after a sprawling three-month trial.

As some of the federal agents who had chased him for years looked on from the gallery, Judge **Brian M. Cogan** issued the sentence and Mr. Guzmán, 62, was hauled away to prepare himself — pending an appeal — for spending the rest of his life behind bars.

Before he disappeared into a holding cell behind the courtroom, he blew a kiss to his wife, **Emma Coronel Aispuro**, who attended most of his trial and was implicated in a handful of his crimes.

Although Judge **Cogan** had no choice but to sentence Mr. Guzmán to life, he noted that the "overwhelming evil" of the drug lord's crimes was readily apparent. Beyond the life sentence — plus an additional 30 years — he ordered him to pay a staggering \$12.6 billion in forfeiture.

Looking disheveled and slightly out of sorts, Mr. Guzmán walked into the eighth-floor courtroom under guard shortly before 9:30 a.m. He wore a loosefitting gray suit, with his tie rakishly askew and a new-growth mustache darkening his upper lip.

Reading from a prepared statement, he said he had not received a fair trial and complained about his solitary confinement in **Manhattan's** federal jail, calling it "psychological, emotional and mental torture 24 hours a day."

"Since the government of the **United States** is going to send me to a prison where my name will never be heard again, I take advantage of this opportunity to say there was no justice here," he said.

Though Judge **Cogan** did not specify where Mr. Guzmán would serve his sentence, he is likely to be sent to the country's most forbidding federal prison, the **United States Penitentiary Administrative Maximum Facility**, or **ADX**, in **Florence, Colo.**

Mr. Guzmán's decades-long career atop the **Sinaloa drug cartel**, one of **Mexico's** most powerful criminal mafias, came to a close only after years of international and domestic law enforcement and Mexican and U.S. authorities

Brian M. Cogan

Normalized Form

brian m. cogan

Properties

Gender	male
Family Name	cogan
rosoka.convention	western
First (Given) Name	brian

Instances

brian m. cogan

cogan

he

Links

PersonToPerson (2)

- joaquin guzmán brian m. cogan
- joaquin guzmán brian m. cogan

2. Use the **Tag** drop-down to tag a new entity or link.

TextChart Document View

English_ 'El Chapo' Guzmán Sentenced to Life in Prison, Ending Notorious Criminal Career .txt

Entities [Send All](#)

Search

- Event (6)
- Property (1)
- Organization (8)
- Person (12)
- Address (17)

Links [Send All](#)

Search

- PersonToAddress (16)
- PersonToOrganization (9)
- OrganizationToAddress (3)
- PersonToPerson (11)
- PersonToEvent (5)
- OrganizationToOrganization (1)
- AddressToAddress (1)

'El Chapo' Guzmán Sentenced to Life in Prison, Ending Notorious Criminal Career

He sent hundreds of tons of drugs to the United States from Mexico and caused the brutal deaths of dozens of people.

He was one of the most notorious outlaws of the last 100 years: a brutal Mexican cartel leader, a wily trafficker who smuggled more than \$12 billion worth of drugs into the United States, leading to a long-running tragedy of bloodshed and death.

But on Wednesday, the end of his criminal career of Joaquín Guzmán Loera, known to the world as El Chapo, reached its final chapter as a federal judge in New York City sentenced him to life in prison.

The life term, mandated by law as a result of the severity of Mr. Guzmán's crimes, was handed down in Federal District Court in Brooklyn, where the kingpin was convicted last winter of drug, murder and money laundering charges after a sprawling three-month trial.

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Although Judge Cogan had no choice but to sentence Mr. Guzmán to life, he noted that the "overwhelming evil" of the drug lord's crimes was readily apparent. Beyond the life sentence, plus an additional 30 years, he ordered

Toggle Gloss

Create Entity

TextChart Document View

English_ 'El Chapo' Guzmán Sentenced to Life in Prison, Ending Notorious Criminal Career .txt

Entities [Send All](#)

Search

- Event (6)
- Property (1)
- Organization (8)
- Person (12)
- Address (17)

Links [Send All](#)

Search

- PersonToAddress (16)
- PersonToOrganization (9)
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Toggle Gloss

Edit Entity

Create Link from Entity

Remove Entity

Make Anchor

Send to Chart

3. Through the **Options** button, you can:
 - a. Toggle back and forth between an English version of the document, and the text in its original language.
 - b. Remove whitespace from the document as displayed
 - c. Change the font size of the text in the document.

The screenshot shows the TextChart Document View interface. The main window displays a document titled "Russian_Присяжные в суде Бруклина признали Эль Чапо виновным « Как сообщает .txt". The document text is shown in two columns, with extracted entities highlighted in various colors (green, yellow, red). On the left side, there are two panels: "Entities" and "Links", both with search bars and lists of extracted items. On the right side, there is a "Toggle Gloss" button (highlighted with a red box) and a glossary panel for the entity "суде Бруклина". The glossary panel shows the entity type as "Organization", its normalized form as "court brooklyn", and its properties, including "Organization Type" (populated) and "Organization Name" (court brooklyn). The "Instances" section shows "суде бруклина". The "Links" section shows "No relevant links".

Curating extraction results

After i2 TextChart presents the results of processing a document in the Document View, you can review its output and make changes to the results. TextChart supports removing and modifying the records it finds, as well as identifying new records of your own.

Removing results

If TextChart identifies an entity or a link that you don't want to appear in the results, you can remove it from the Document View. For example, the following view contains a contrived entity extraction result for a "New York office", which has the Organization entity type.

The screenshot displays the TextChart Document View interface. The main window shows a document titled "English 'El Chapo' Guzmán Sentenced to Life in Prison, Ending Notorious Criminal Career .txt". The document text is highlighted with various colors to indicate extracted entities: "Mexico", "his", "bribery", "Mexican government", "local, state and federal police", "national government", "New York office", "Raymond P. Donovan", "New York office", "Drug Enforcement Administration", "New York office", "Jeffrey Lichtman", "Brooklyn Heights neighborhood", "Miami", "Washington", "Richard P. Donoghue", "Miami", "Washington", "Mr. Donoghue", "Mr. Guzmán", and "he".

On the left side, there are two panels: "Entities" and "Links". The "Entities" panel has a search bar and a list of entities including "united states penitentiary, administrative maximum facility", "new york office", "federal district court", "sinaloa cartel", "mexican government", and "drug enforcement administration". The "Links" panel has a search bar and a list of link types including "PersonToAddress (16)", "PersonToOrganization (9)", "OrganizationToAddress (3)", "PersonToPerson (11)", "PersonToEvent (5)", "OrganizationToOrganization (1)", and "AddressToAddress (1)".

On the right side, there is a "Toggle Gloss" button and a panel showing the details of the selected entity "New York office". The details include "Entity Type: Organization", "Normalized Form", "Properties", "Organization Type: populate", "rosoka.admin_region: new york", "Instances", and "Links".

A context menu is open over the text "New York office" in the document. The menu options are: "Edit Entity", "Create Link from Entity", "Remove Entity" (highlighted in red), "Make Anchor", "Send to Chart", and "Send to Chart".

When you select the text in the Document View, TextChart displays information about the extracted entity. To remove this result, click **Remove Entity**.

Adding entities

If TextChart failed to identify an entity that you *do* want to appear in the results, you can highlight the text to be extracted, and then select **Create Entity**.

The screenshot shows the TextChart Document View interface. The main window displays a document titled "English 'El Chapo' Guzmán Sentenced to Life in Prison, Ending Notorious Criminal Career .txt". The text is highlighted with various colors (red, green, blue) to indicate entities. A "Create Entity" button is visible over the text. The left sidebar shows a list of entities and links, with a search bar. The right sidebar shows the details for the selected entity, including its type, normalized form, properties, organization type, and instances.

Entities [Send All](#)

Search

- ▶ united states penitentiary, administrative maximum facility
- ▶ new york office
- ▶ federal district court
- ▶ sinaloa cartel
- ▶ mexican government
- ▶ drug enforcement administration

Links [Send All](#)

Search

- ▶ PersonToAddress (16)
- ▶ PersonToOrganization (9)
- ▶ OrganizationToAddress (3)
- ▶ PersonToPerson (11)
- ▶ PersonToEvent (5)
- ▶ OrganizationToOrganization (1)
- ▶ AddressToAddress (1)

'El Chapo' Guzmán Sentenced to Life in Prison, Ending Notorious Criminal Career

He sent hundreds of tons of drugs to the **United States** from **Mexico** and caused the **brutal death** of dozens of people.

He was one of the most **powerful** men in the world for **most** 100 years: a brutal Mexican cartel leader, **he** smuggled more than \$12 billion worth of drugs and plunged **his** country into a long-running tragedy of bloodshed and corruption.

But on Wednesday morning, the 30-year criminal career of **Joaquín Guzmán Loera**, known to the world as **El Chapo**, reached its final chapter as a federal judge in **New York City** sentenced **him** to life in prison.

The life term, mandated by law as a result of the severity of Mr. **Guzmán's** crimes, was handed down in **Federal District Court** in **Brooklyn**, where the kingpin was convicted last winter of drug, **murder** and **money laundering** charges after a sprawling three-month trial.

As some of the federal agents who had chased **him** for years looked on from the gallery, Judge **Brian M. Cogan** issued the sentence and Mr. **Guzmán**, 62, was hauled away to prepare **himself** — pending an appeal — for spending the rest of **his** life behind bars.

Before **he** disappeared into a holding cell behind the courtroom, **he** blew a kiss to **his** wife, **Emma Coronel Aispuro**, who attended most of **his** trial and was implicated in a handful of **his** crimes.

Entity Type: Organization

Normalized Form

new york office

Properties

Organization Type populate

rosoka.admin_region new york

Instances

new york office

Links

- ▶ PersonToOrganization (1)
- ▶ OrganizationToOrganization (1)

TextChart displays the Tag Entity Tool for you to provide information about the entity, and populates the **Original** field with the text that you highlighted.

TextChart Document View

English_ 'El Chapo' Guzmán Sentenced to Life in Prison, Ending Notorious Criminal Career .txt

Entities [Send All](#)

Search

- ▶ united states penitentiary, administrative maximum facility
- ▶ new york office
- ▶ federal district court
- ▶ sinaloa cartel
- ▶ mexican government
- ▶ drug enforcement administration

Links [Send All](#)

Search

- ▶ PersonToAddress (16)
- ▶ PersonToOrganization (9)
- ▶ OrganizationToAddress (3)
- ▶ PersonToPerson (11)
- ▶ PersonToEvent (5)
- ▶ OrganizationToOrganization (1)
- ▶ AddressToAddress (1)

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He was on leader, a w his countr

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Before he Emma Co his crimes

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Toggle Gloss

New York office

Entity Type: Organization

Tag Entity

Original brutal deaths Norm brutal deaths Gloss

Event

Unique Reference

Additional Information

SourceId

Save

TextChart also populates the **Norm** field with the same text, but here you have the option of changing the text to normalize it when a document uses different terminology to refer the same piece of information.

For example, in the image below, "new york city" and "manhattan, new york, us" have been identified as separate places.

TextChart Document View

English: 'El Chapo' Guzmán Sentenced to Life in Prison, Ending Notorious Criminal Career .txt

Entities Send All

Search

- mexico, distrito federal, mx
- new york city
- brooklyn, florida, us
- reading, illinois, us
- manhattan, new york, us
- florence, colorado, us
- brooklyn heights neighborhood

Links Send All

Search

- PersonToAddress (16)
- PersonToOrganization (9)
- OrganizationToAddress (3)
- PersonToPerson (11)
- PersonToEvent (5)
- OrganizationToOrganization (1)
- AddressToAddress (1)

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Entity Type: Address

Normalized Form: new york city

Properties:

- Location Type:** populated
- Town/City:** new york city
- Building Number:** new york city

Instances: new york city

Links:

- PersonToOrganization (1)
- PersonToAddress (2)

If you decide that TextChart should treat these instances as the same place, you can edit the **Norm** field of one so that it matches the other.

TextChart Document View

English: 'El Chapo' Guzmán Sentenced to Life in Prison, Ending Notorious Criminal Career .txt

Entities Send All

Search

- mexico, distrito federal, mx
- new york city
- brooklyn, florida, us
- reading, illinois, us
- manhattan, new york, us
- florence, colorado, us
- brooklyn heights neighborhood

Links Send All

Search

- PersonToAddress (16)
- PersonToOrganization (9)
- OrganizationToAddress (3)
- PersonToPerson (11)
- PersonToEvent (5)
- OrganizationToOrganization (1)
- AddressToAddress (1)

Although Judge Cogan had no choice but to sentence Mr. Guzmán to life, he noted that the "overwhelming evil" of the drug lord's crimes was readily apparent. Beyond the life sentence — plus an additional 30 years — he ordered him to pay a staggering \$12.6 billion in forfeiture.

His ability to persistently evade capture — and then escape from prison after he was caught — underscored the deep corruption of the Mexican government by his cartel,

Edit Entity

Original: Manhattan Norm: manhattan, new york, us Gloss:

Unique Reference:

Location Type: populated

Apartment Number:

Building Number: manhattan, new york, us

Save

If you're processing documents in a language other than English, and you come across an important term that TextChart does not understand, you can add an English translation of that term to the **Gloss** field.

Finally, you must choose a TextChart type for your new entity. Different entity types have different attributes, and you can fill in additional information as you see fit.

The screenshot displays the TextChart Document View interface. The main window shows a document titled "English: 'El Chapo' Guzmán Sentenced to Life in Prison, Ending Notorious Criminal Career .txt". The document text is partially visible, with some terms highlighted in red and green. A "Tag Entity" dialog box is open, allowing the user to tag a selected entity. The dialog box has a blue header and contains the following fields:

- Original final chapter:
- Norm final chapter:
- Gloss:
- Entity Type: Address (dropdown menu)
- Unique Reference:
- Additional Information:
- SourceId:
- Save button

The "Entity Type" dropdown menu is currently set to "Document", and a red arrow points to it. The background document text includes the following snippet:

'El Chapo' Guzmán Sentenced to Life in Prison, Ending Notorious Criminal Career
 He sent hundreds of tons of drugs to the United States from Mexico and caused the brutal deaths of dozens of people.
 He was on leader, a w his country.
 But on We to the wor sentenced
 The life te handed dc winter of c
 As some o Judge Bria prepare hi
 Before he Emma Co his crimes.
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Adding links

Adding a link that TextChart failed to identify is similar to adding an entity in the same circumstances. You can highlight, right-click an extracted entity and select **Create Link from Entity** to use it as the "From" end of a new link.

The screenshot shows the TextChart Document View interface. The main text area displays a news article about 'El Chapo' Guzmán. A context menu is open over the word 'him', with the 'Create Link from Entity' option highlighted in blue. The menu also includes options for 'Edit Entity', 'Remove Entity', 'Make Anchor', and 'Send to Chart'. On the left, there are 'Entities' and 'Links' panels with search bars and lists of entity types. On the right, a 'Toggle Gloss' panel is visible, showing details for the 'Manhattan' entity, including its type (Address), normalized form, and properties like longitude and UFI.

The Tag Link Tool starts by prompting you to select the entity at the "From" end.

This screenshot shows the same TextChart Document View interface, but with a dialog box titled 'Create Link from Entity' open. The dialog has three buttons: 'Joaquín Guzmán Loera' (with a red cube icon), 'Select a Link type' (with a dashed box icon), and 'Not set' (with a black cube icon). A 'Save' button is at the bottom left of the dialog. The background text and panels are dimmed. The 'Alert Feed Subscription' dropdown is also visible above the dialog.

Then, you have to select the entity at the "To" end.

TextChart Document View

English_ 'El Chapo' Guzmán Sentenced to Life in Prison, Ending Notorious Criminal Career .txt

Entities [Send All](#)

Search

- Event (6)
- Property (1)
- Organization (8)
- Person (12)
- Address (17)

Links [Send All](#)

Search

- PersonToAddress (16)
- PersonToOrganization (9)
- OrganizationToAddress (3)
- PersonToPerson (11)
- PersonToEvent (5)
- OrganizationToOrganization (1)
- AddressToAddress (1)

'El Chapo' Guzmán Sentenced to Life in Prison, Ending Notorious Criminal Career

He sent hundreds of thousands of people to prison, the deaths of dozens of people.

He was one of the most powerful drug lords in the world, a wily trafficker who turned his country into a long-term drug empire.

But on Wednesday morning, he was sentenced to life in prison.

The life term, mandated by law as a result of the severity of Mr. Guzmán's crimes, was handed down in Federal District Court in Brooklyn, where the kingpin was convicted last winter of drug, murder and money laundering charges after a sprawling three-month trial.

As some of the federal agents who had chased him for years looked on from the gallery, Judge Brian M. Cogan issued the sentence and Mr. Guzmán, 62, was hauled away to prepare himself — pending an appeal — for spending the rest of his life behind bars.

Before he disappeared into a holding cell behind the courtroom, he blew a kiss to his wife, Emma Coronel Aispuro, who attended most of his trial and was implicated in a handful of his crimes.

Although Judge Cogan had no choice but to sentence Mr. Guzmán to life, he noted that the "overwhelming evil" of the drug lord's crimes was readily apparent. Beyond the life sentence — plus an additional 30 years — he ordered him to pay a staggering \$12.6 billion in forfeiture.

Manhattan

Entity Type: Address

Normalized Form

manhattan, new york, us

Properties

Longitude -73.96624755

rosoka.ufi 971945

Instances

manhattan

Links

- PersonToOrganization (1)
- PersonToAddress (1)

After you select both ends, the Tag Link Tool displays a drop-down that allows you to specify the TextChart type of the link to be created.

TextChart Document View

English_ 'El Chapo' Guzmán Sentenced to Life in Prison, Ending Notorious Criminal Career .txt

Entities [Send All](#)

Search

- Event (6)
- Property (1)
- Organization (8)
- Person (12)
- Address (17)

Links [Send All](#)

Search

- PersonToAddress (16)
- PersonToOrganization (9)
- OrganizationToAddress (3)
- PersonToPerson (11)
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Manhattan

Entity Type: Address

Normalized Form

manhattan, new york, us

Properties

Longitude -73.96624755

rosoka.ufi 971945

Instances

manhattan

Links

- PersonToOrganization (1)
- PersonToAddress (1)

When all the information in the Tag Link Tool is complete, click **Save** to add the new link to the results.

TextChart Document View

English_ 'El Chapo' Guzmán Sentenced to Life in Prison, Ending Notorious Criminal Career .txt

Entities [Send All](#)

Search

- Event (6)
- Property (1)
- Organization (8)
- Person (12)
- Address (17)

Links [Send All](#)

Search

- PersonToAddress (16)
- PersonToOrganization (9)
- OrganizationToAddress (3)
- PersonToPerson (11)
- OrganizationToOrganization (1)
- PersonToEvent (6)
- OrganizationToOrganization

'El Chapo' Guzmán S...
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Manhattan

Entity Type: Address

Normalized Form

manhattan, new york, us

Properties

Longitude -73.96624755

rosoka.ufi 971945

Instances

manhattan

Links

- PersonToOrganization (1)
- PersonToAddress (1)

Editing results

If TextChart identified an entity or a link successfully, but the extracted result isn't exactly how you want it, you can right-click the highlighted text in the Document View and select **Edit Entity**.

TextChart Document View

English_ 'El Chapo' Guzmán Sentenced to Life in Prison, Ending Notorious Criminal Career .txt

Entities [Send All](#)

Search

- Event (6)
- Property (1)
- Organization (8)
- Person (12)
- Address (17)

Links [Send All](#)

Search

- PersonToAddress (16)
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'El Chapo' Guzmán Sentenced to Life in Prison, Ending Notorious Criminal Career

He sent hundreds of tons of drugs to the United States from Mexico and caused the brutal deaths of dozens of people.

He was one of the most notorious outlaws of the last 100 years: a brutal Mexican cartel leader, a wily trafficker who smuggled hundreds of tons of drugs and plunged his country into a long-running trade war.

But on Wednesday morning, the 30-year-old Guzmán, known to the world as El Chapo, reached his final destination in New York City and was sentenced him to life in prison.

The life term, mandated by law as a punishment for his crimes, was handed down in Federal District Court in Manhattan. Guzmán's crimes, which included drug trafficking, kingpin was convicted last year in a sprawling three-month trial.

As some of the federal agents who had chased him for years looked on from the gallery, Judge Brian M. Cogan issued the sentence and Mr. Guzmán, 62, was hauled away to prepare himself — pending an appeal — for spending the rest of his life behind bars.

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Normalized Form

manhattan, new york, us

Properties

Longitude -73.96624755

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Instances

manhattan

Links

- PersonToOrganization (1)
- PersonToAddress (1)

The behavior of the tool is the same when you're editing results as it is when you're adding them. You can edit the **Norm** field, add an English **Gloss**, change the **Type**, and modify attribute information.

TextChart Document View

English_ 'El Chapo' Guzmán Sentenced to Life in Prison, Ending Notorious Criminal Career .txt

Entities [Send All](#)

Search

- Event (6)
- Property (1)
- Organization (8)
- Person (12)
- Address (17)

Links [Send All](#)

Search

- PersonToAddress (16)
- PersonToOrganization (9)
- OrganizationToAddress (3)
- PersonToPerson (11)
- OrganizationToOrganization (1)
- OrganizationToOrganization (1)

'El Chapo' Guzmán Sentenced to Life in Prison, Ending Notorious Criminal Career

He sent hundreds of tons of drugs to the United States from Mexico and caused the brutal deaths of dozens of people.

He was one of the most notorious outlaws of the last 100 years: a brutal Mexican cartel leader, a wily trafficker who smuggled hundreds of tons of drugs and plunged his country into a long-running trade war.

But on Wednesday morning, the 30-year-old Guzmán, known to the world as El Chapo, reached his final destination in New York City and was sentenced him to life in prison.

The life term, mandated by law as a punishment for his crimes, was handed down in Federal District Court in Manhattan. Guzmán's crimes, which included drug trafficking, kingpin was convicted last year in a sprawling three-month trial.

As some of the federal agents who had chased him for years looked on from the gallery, Judge Brian M. Cogan issued the sentence and Mr. Guzmán, 62, was hauled away to prepare himself — pending an appeal — for spending the rest of his life behind bars.

Before he disappeared into a holding cell behind the courtroom, he blew a kiss to his wife, Emma Coronel Aispuro, who attended most of his trial and was implicated in a handful of his crimes.

Although Judge Cogan had no choice but to sentence Mr. Guzmán to life, he noted that the "overwhelming evil" of the drug lord's crimes was readily apparent. Beyond the life sentence — plus an additional 30 years — he ordered him to pay a staggering \$12.6 billion in forfeiture.

Manhattan

Entity Type: Address

Normalized Form

manhattan, new york, us

Properties

Longitude -73.96624755

rosoka.ufi 971945

Instances

manhattan

Links

- PersonToOrganization (1)
- PersonToAddress (1)

Edit Entity

Original Norm Gloss

Unique Reference

Additional Information

SourceId

[Save](#)

When you finish editing, the changes you made are reflected in the feature bar on the right of the Document View.

The screenshot displays the i2 TextChart Document View interface. The main window shows a document titled "English_ 'El Chapo' Guzmán Sentenced to Life in Prison, Ending Notorious Criminal Career .txt". The document text is displayed in the center, with various entities highlighted in different colors (e.g., "El Chapo" Guzmán in red, "United States" in green, "Mexico" in blue, "smuggled" in orange, "Joaquín Guzmán Loera" in pink, "New York City" in green, "Federal District Court" in blue, "Brooklyn" in green, "murder" in red, "money laundering" in pink, "himself" in red, "Emma Coronel Aispuro" in red, "his crimes" in red, "Judge Cogan" in red, "Guzmán" in red, "he" in red, "him" in red). The left sidebar shows the "Entities" list with categories like Event (6), Property (1), Organization (8), Person (12), and Address (17). The right sidebar shows the "Feature Bar" for the selected entity "smuggled", which is highlighted with a red box. The Feature Bar includes sections for "Entity Type: Event", "Normalized Form", "Properties" (Event Type: smuggle, Additional Information: Investigated), "Instances" (smuggled, smuggling), and "Links" (PersonToOrganization (1), PersonToEvent (1)).

Important: After you edit an extracted entity or link, you must reprocess the other documents in the collection so that they receive the same modifications.

Analyzing extraction results

After i2 TextChart processes a document, it presents its results in the Document View for you to assess. The views that it presents for extracted entities and extracted links are slightly different from each other.

Viewing entities

When you select an entity type in the **Entities** list, TextChart highlights the entities of that type in the document.

The screenshot displays the TextChart Document View for a document titled "English 'El Chapo' Guzmán Sentenced to Life in Prison, Ending Notorious Criminal Career .txt".

Entities List (Left):

- Event (6)
- Drug (1)
- Facility (2)
- Money (3)
- Organization (6)
- Individual (12)
 - joaquin guzmán
 - brian m. cogan
 - emma coronel aispuro
 - will

Document View (Center):

'El Chapo' Guzmán Sentenced to Life in Prison, Ending Notorious Criminal Career

He sent hundreds of tons of drugs to the United States from Mexico and caused the brutal deaths of dozens of people.

He was one of the most notorious outlaws of the last 100 years: a brutal Mexican cartel leader, a wily trafficker who smuggled more than \$12 billion worth of drugs and plunged his country into a long-running tragedy of bloodshed and corruption.

But on Wednesday morning, the 30-year criminal career of Joaquín Guzmán Loera, known to the world as El Chapo, reached its final chapter as a federal judge in New York City sentenced him to life in prison.

The life term, mandated by law as a result of the severity of Mr. Guzmán's crimes, was handed down in Federal District Court in Brooklyn, where the kingpin was convicted last winter of drug, murder and money laundering charges after a sprawling three-month trial.

As some of the federal agents who had chased him for years looked on from the gallery, Judge Brian M. Cogan issued the sentence and Mr. Guzmán, 62, was hauled away to prepare himself — pending an appeal — for spending the rest of his life behind bars.

Before he disappeared into a holding cell behind the courtroom, he blew a kiss to his wife, Emma Coronel Aispuro, who attended most of his trial and was implicated in a handful of his crimes.

Although Judge Cogan had no choice but to sentence Mr. Guzmán to life, he noted that the "overwhelming evil" of the drug lord's crimes was readily apparent. Beyond the life sentence — plus an additional 30 years — he ordered him to pay a staggering \$12.6 billion in forfeiture.

Looking disheveled and slightly out of sorts, Mr. Guzmán walked into the eighth-floor courtroom under guard shortly before 9:30 a.m. He wore a loosefitting gray suit, with his tie rakishly askew and a new-growth mustache darkening his upper lip.

Reading from a prepared statement, he said he had not received a fair trial and complained about his solitary confinement in Manhattan's federal jail, calling it "psychological, emotional and mental torture 24 hours a day."

"Since the government of the United States is going to send me to a prison where my name will never

Properties Pane (Right):

- Entity Type: Individual
- Normalized Form: joaquin guzmán
- Properties:

Gender	male
Type	criminal
First (Given) Name	joaquin
Family Name	guzmán
- Instances:
 - 'el chapo' guzmán
 - he
 - his
 - joaquin guzmán loera
- Links:
 - IndividualToGeospatial Location (12)
 - IndividualToMoney (2)
 - IndividualToOrganization (5)
 - IndividualToIndividual (10)
 - IndividualToFacility (1)
 - IndividualToEvent (3)

As with the extracted entities, you can expand link types in the list to investigate and modify the information of any individual extracted link.

Charting extraction results

After i2 TextChart has imported and processed a collection of documents and you have curated the results, you can add the extracted entities and links to an Analyst's Notebook chart. TextChart supports sending results to the chart separately or in bulk.

Sending entities to a chart

TextChart provides three options for sending entities to a chart. You can specify them individually, choose all entities of the same type, or simply send all the extracted entities at once.

Sending a single entity

To send a single entity from the Document View to the current chart, you can use the pop-up menu for that entity in the **Entities** list on the left of the window, or the **Send To Chart** button from the entity details pane on the right of the window.

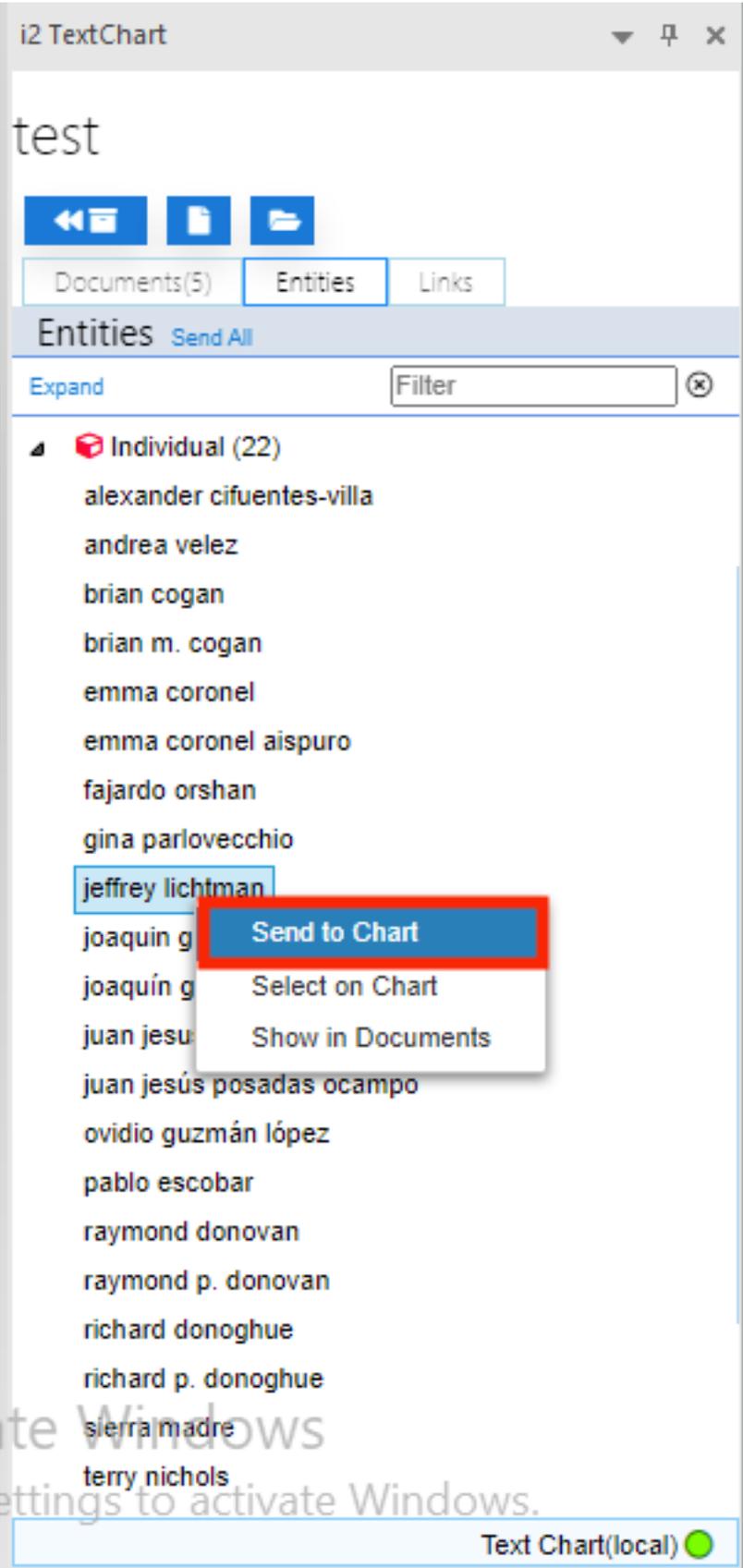
The screenshot shows the TextChart Document View interface. The main window displays a document titled "English 'El Chapo' Guzmán Sentenced to Life in Prison, Ending Notorious Criminal Career .txt". The document text is highlighted with various entities in different colors: "United States" (blue), "Mexico" (green), "cocaine" (yellow), "Sinaloa drug cartel" (orange), "Tucson" (blue), "San Diego" (green), "Guatemala" (green), "Mexico" (green), "Juan Jesús Posadas Ocampo" (red), "United States" (blue), "Sierra Madre" (red), "Sinaloa" (green), "Cabo San Lucas, Mexico" (green), and "Donovan" (red).

A pop-up menu is visible over the text, with the "Send to Chart" option highlighted in red. Other options include "Select on Chart".

The left sidebar shows the "Entities" panel with a search bar and a list of entity types: Event (6), Drug (1), Facility (1), Moral (1), Organization (1), Individual (12), and Geospatial Location (17). Below this is the "Links" panel with a search bar and a list of link types: IndividualToGeospatial Location (16), IndividualToMoney (2), IndividualToOrganization (7), OrganizationToGeospatial Location (2), IndividualToIndividual (11), IndividualToFacility (2), FacilityToGeospatial Location (1), and IndividualToEvent (5).

The right sidebar shows the "Toggle Gloss" panel with a search bar and a list of entity types: Entity Type: Drug, Normalized Form, Properties, Drug Type, rosoka.schedule, rosoka.filing_status, Drug Name, Instances, and Links. The "Instances" section shows "cocaine" and "No relevant links".

If an extracted entity is already on the chart, you can use the same pop-up menu to select it there.



Sending several entities

To send all the entities of the same type from the Document View to a chart, you can use the pop-up menu for that entity type in the **Entities** list. Alternatively, to send *all* the entities extracted from the document to the chart, you can click the **Send All** button at the top of the list.

The screenshot displays the TextChart Document View interface. The main window shows a document titled "English_ 'El Chapo' Guzmán Sentenced to Life in Prison, Ending Notorious Criminal Career .txt". The document text is highlighted with red boxes around various entities and links. On the left side, there is an "Entities" list with a "Send All" button highlighted in red. Below the entities list is a "Links" list with a "Send All" button. A "Send to Chart" button is also visible, with a red box around it. On the right side, there is a "Toggle Gloss" button and a list of entities, including "El Chapo' Guzmán", with a "Send to Chart" button highlighted in red.

The document text includes the following paragraphs:

'El Chapo' Guzmán Sentenced to Life in Prison, Ending Notorious Criminal Career
 He sent hundreds of tons of drugs to the United States from Mexico and caused the brutal deaths of dozens of people.

He was one of the most notorious outlaws of the last 100 years: a brutal Mexican cartel leader, a wily trafficker who smuggled more than \$12 billion worth of drugs and plunged his country into a long-running tragedy of bloodshed and corruption.

But on Wednesday morning, the 30-year criminal career of Joaquín Guzmán Loera, known to the world as El Chapo, reached its final chapter as a federal judge in New York City sentenced him to life in prison.

The life term, mandated by law as a result of the severity of Mr. Guzmán's crimes, was handed down in Federal District Court in Brooklyn, where the kingpin was convicted last winter of drug, murder and money laundering charges after a sprawling three-month trial.

As some of the federal agents who had chased him for years looked on from the gallery, Judge Brian M. Cogan issued the sentence and Mr. Guzmán, 62, was hauled away to prepare himself — pending an appeal — for spending the rest of his life behind bars.

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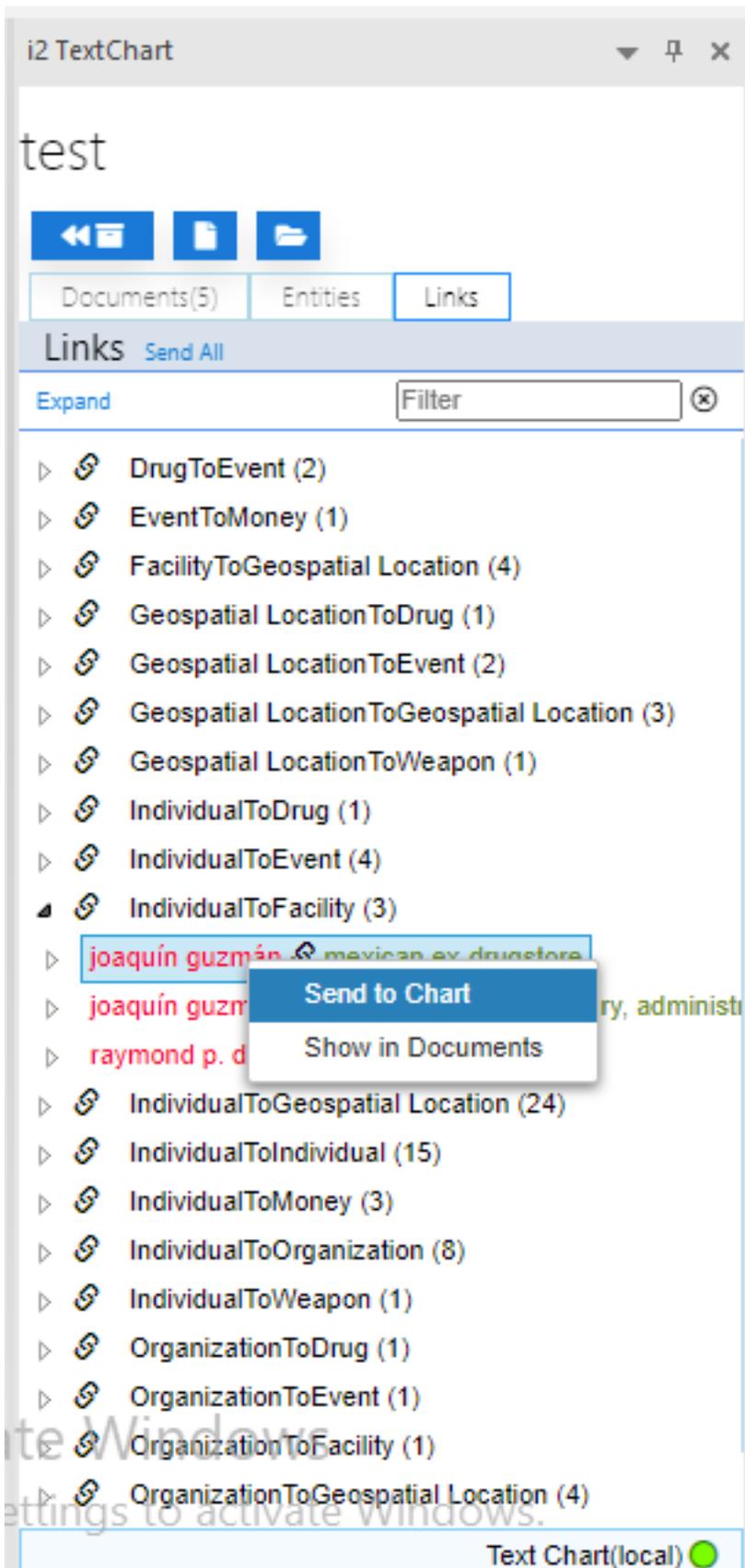
Looking disheveled and slightly out of sorts, Mr. Guzmán walked into the eighth-floor courtroom under guard shortly before 9:30 a.m. He wore a loosefitting gray suit, with his tie rakishly askew and a new-growth mustache darkening his upper lip.

Reading from a prepared statement, he said he had not received a fair trial and complained about his solitary confinement in Manhattan's federal jail, calling it "psychological, emotional and mental torture 24 hours a day."

"Since the government of the United States is going to send me to a prison where my name will never

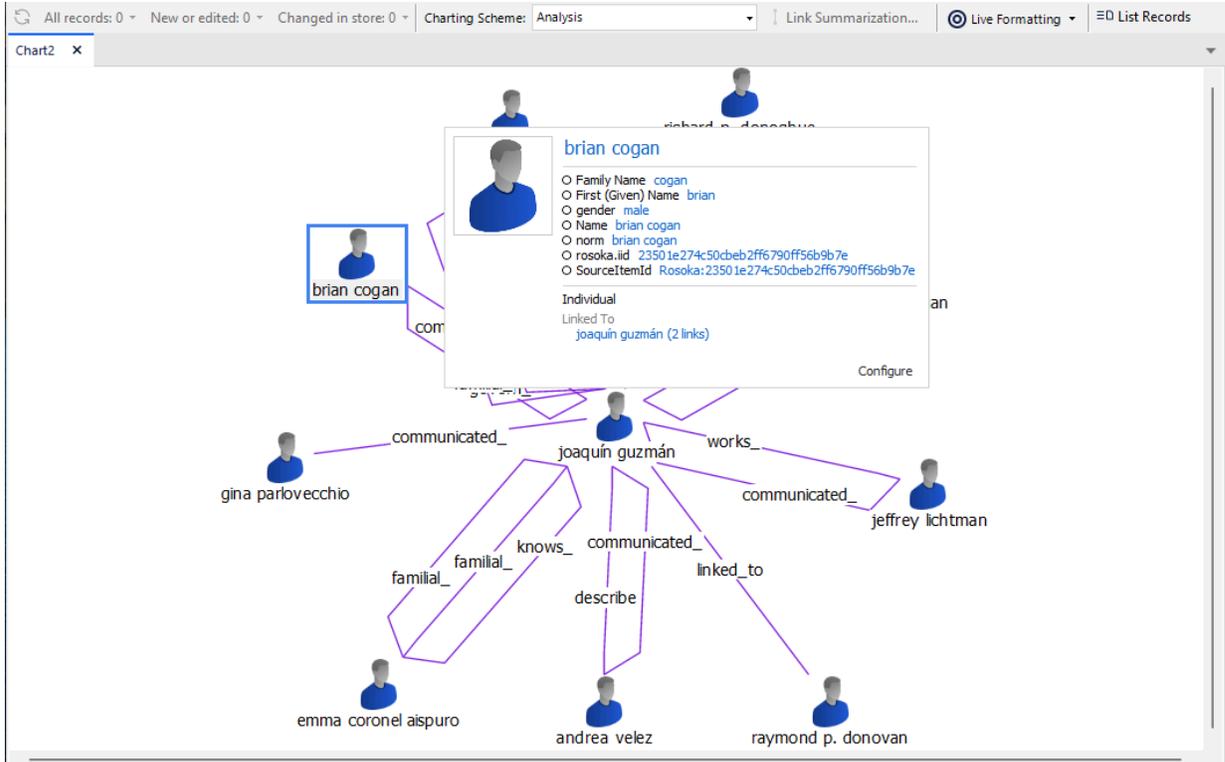
Sending links to a chart

TextChart provides the same three options for sending extracted links to the chart as it does for sending entities, and you use them in the same way.

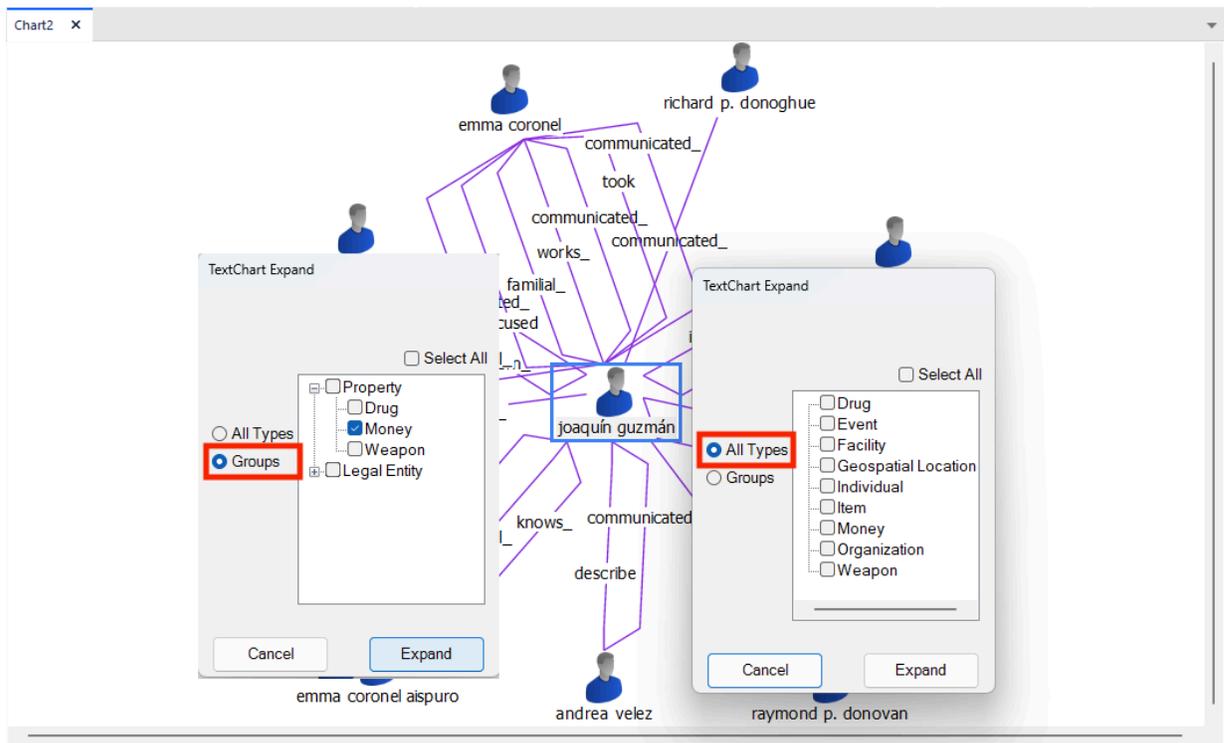


Viewing entities on the chart surface

You can hover over *any* entity on the Analyst's Notebook chart surface to display a window containing information about all the properties that are associated with that entity.

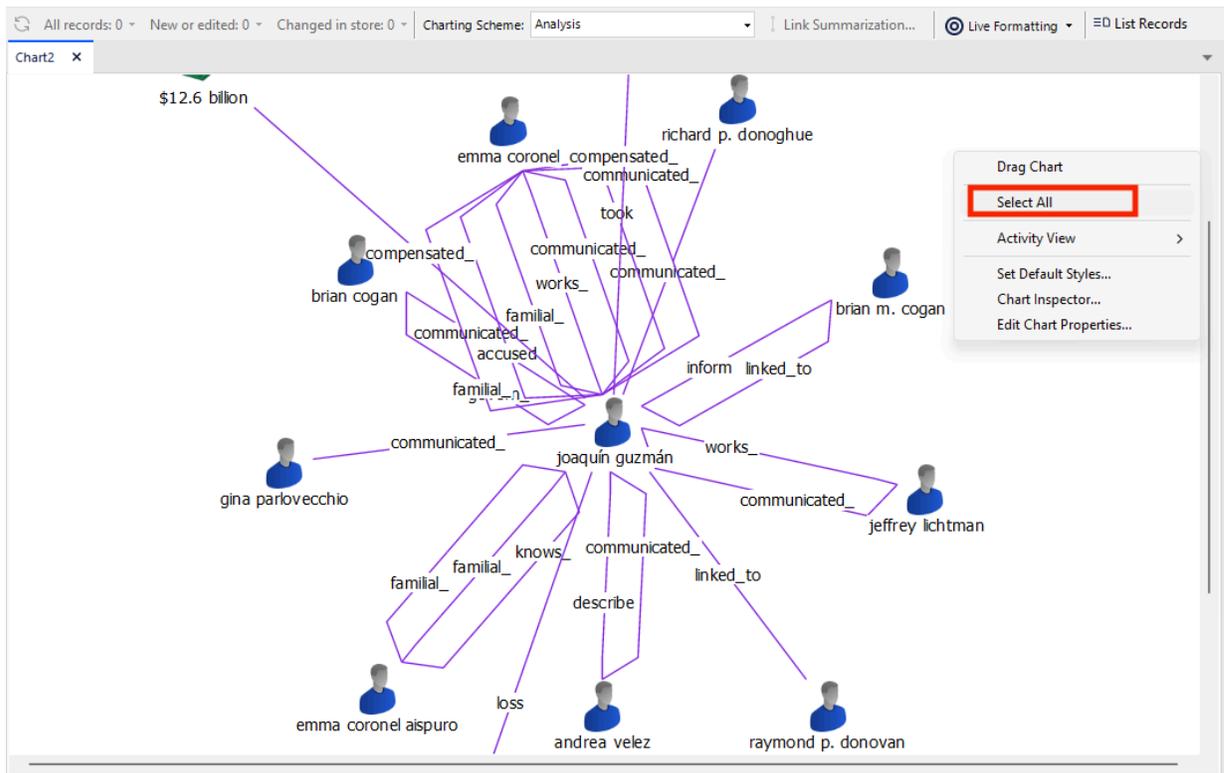


After you've added an entity *from* *TextChart* to the chart, you can use it to start adding related entities from the other documents that you've processed. Right-click the entity, and select **Rosoka Expand**.



You can choose to add related entities of particular types, or groups of types; or you can use **Select All** to add all related entities in a single action.

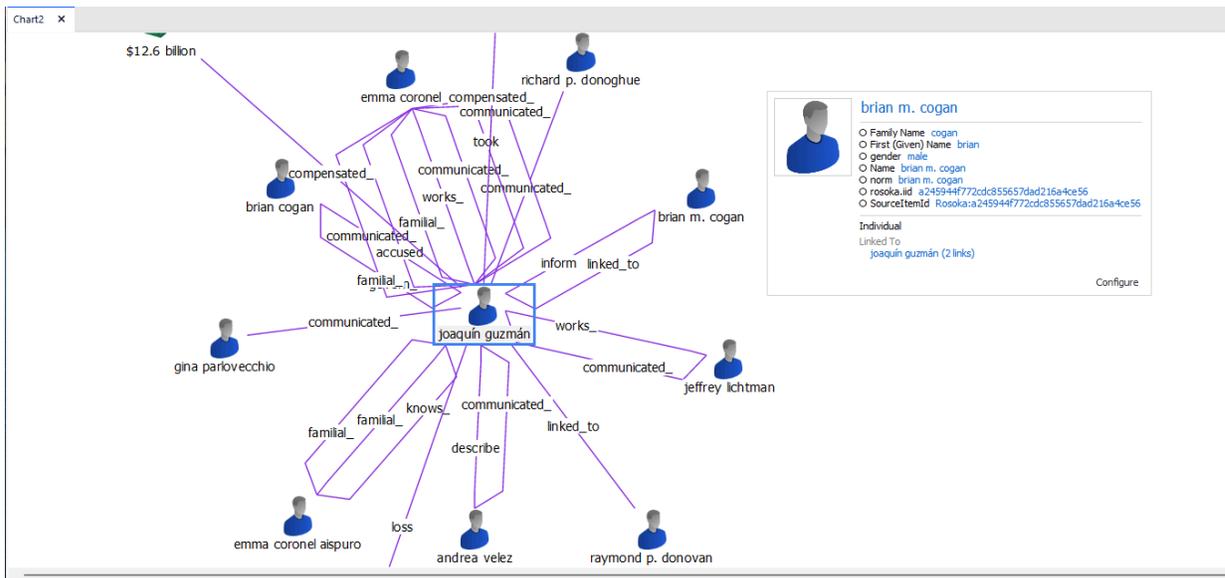
When a chart contains multiple TextChart entities, you can perform the same **Rosoka Expand** operation on all of them by right-clicking the chart surface and choosing **Select All** first.



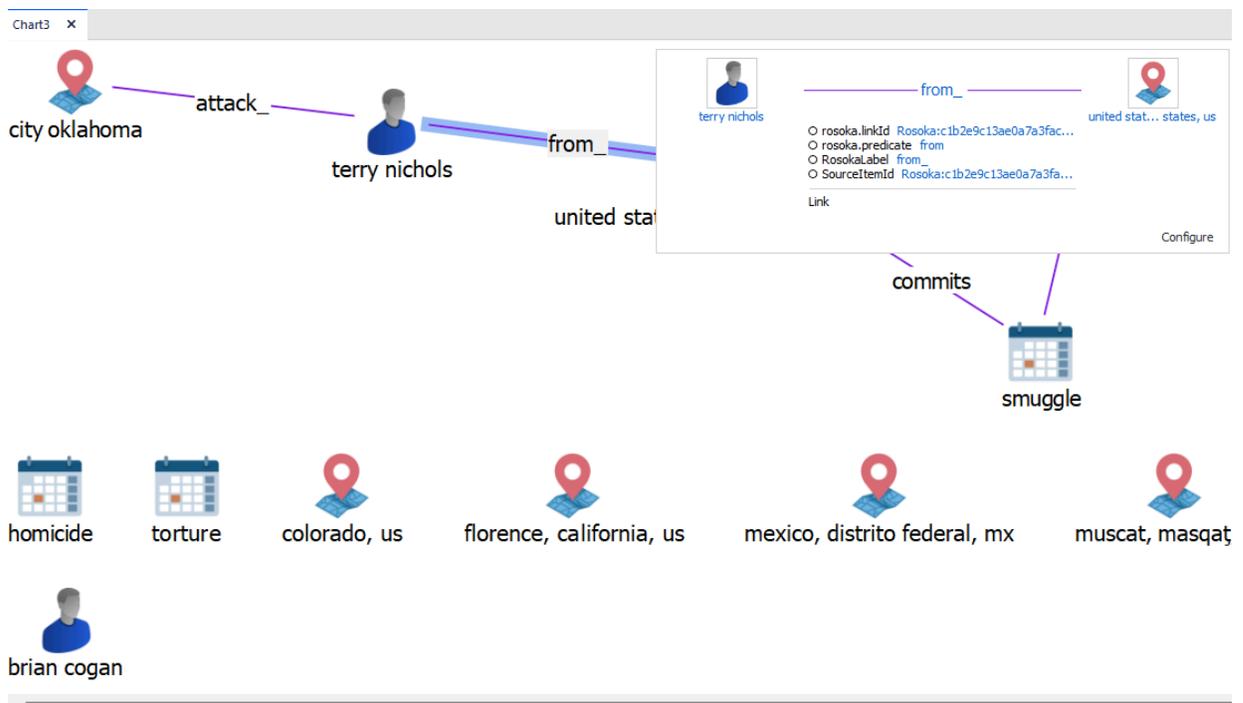
Viewing links on the chart surface

After you've added all the entities to the chart that you want to add, you can start to investigate the relationships between them, including the predicates that were responsible for the links being identified in the first place.

For example, hovering over a connected entity reveals a list of the entities that it is linked to, in addition to its properties.



Similarly, you can hover over a TextChart link to highlight the connection between two entities and display additional extraction information.



The screenshot displays the TextChart Document View interface. On the left, a list of documents is shown, with the selected document being 'English_'El Chapo' Guzmán Sentenced to Life in Prison, Ending Notorious Criminal Career .txt'. Below this list are search bars for entities and links. The main text area shows the document content with various entities and links highlighted in red and blue. The right-hand panel displays the properties of the selected entity, 'El Chapo' Guzmán, including its entity type (Individual), normalized form, gender (male), type (criminal), first name (Joaquín), and family name (Guzmán).

Mapping to i2 Analyze types

When Analyst's Notebook is connected to an i2 Analyze server, the types of the entities and links that users can add to a chart (and the types of the properties that they can contain) are governed by a *schema*. The schema has an associated *charting scheme* that controls the appearance of entities and links.

Individual deployments of i2 Analyze have custom schemas that define entity and link types that are appropriate to the analysis they perform. Different organizations will use different types: even if two organizations used entity types named Person, those types would have different definitions.

TextChart, on the other hand, has a fixed list of types that it can extract from documents, which is defined in the LxBase. In order for Analyst's Notebook to receive entities and links from TextChart, and to display and analyze them successfully, there must be a mapping from the TextChart types to an i2 Analyze schema.

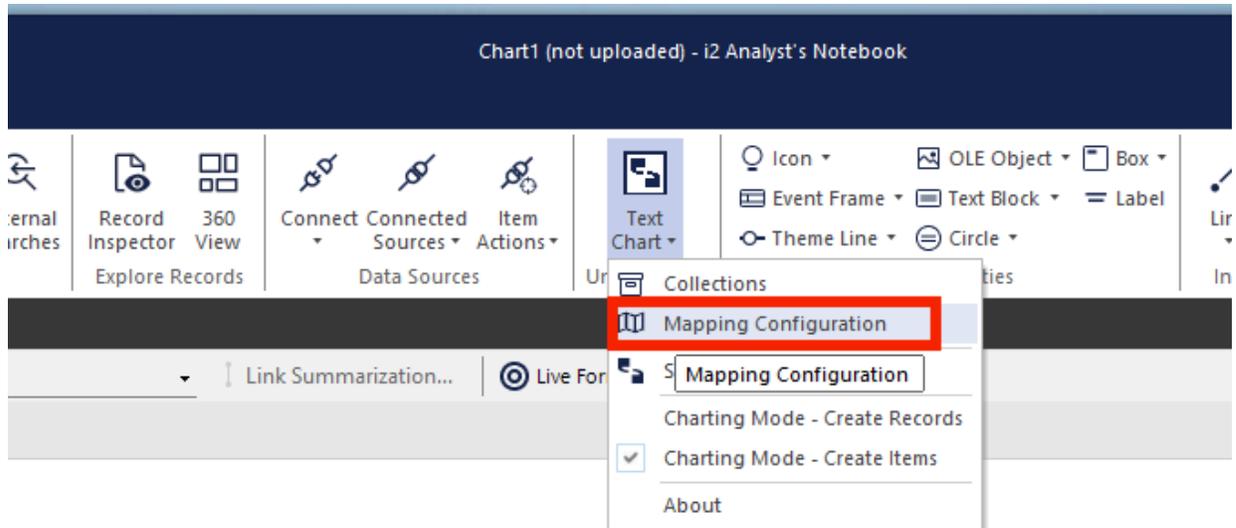
Default type mapping

When you install i2 TextChart, it includes an i2 Analyze schema that defines all the same types that the LxBase defines, and a *mapping configuration* that provides a one-to-one mapping between the two sets of definitions. By default, TextChart uses that schema and mapping configuration when you send extracted entities and links to the chart.

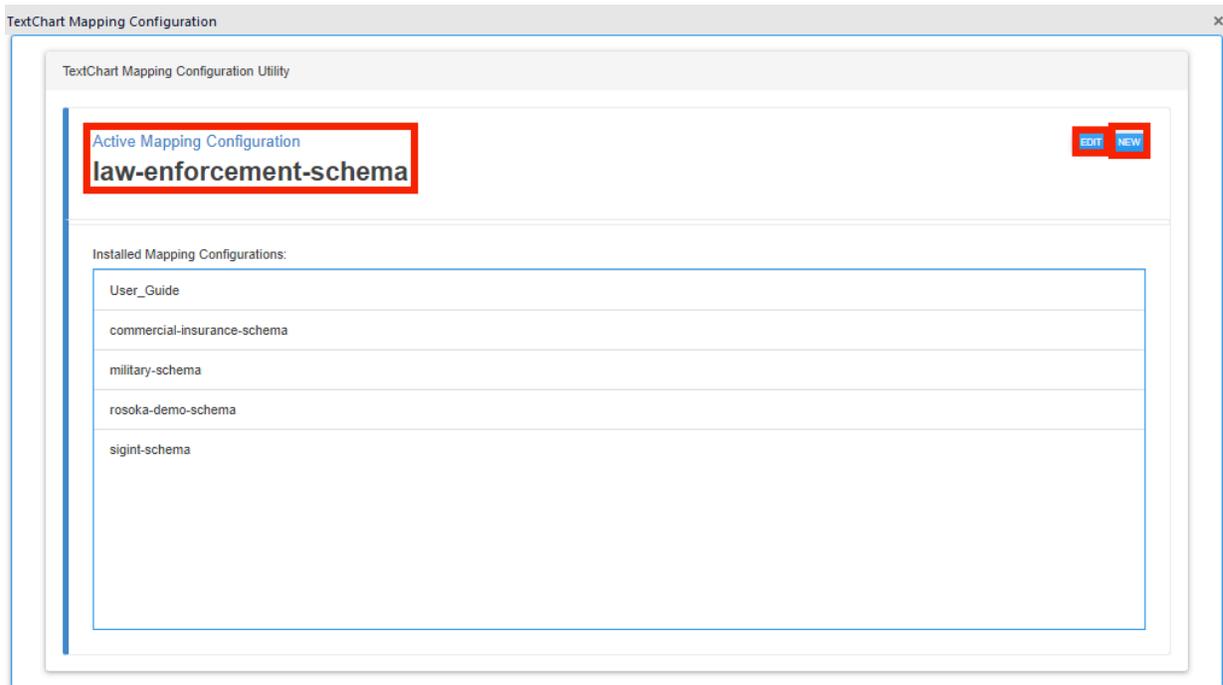
Through Analyst's Notebook, you can make changes to the default mapping configuration so that some types are extracted differently - or so that they're not extracted at all. You can also create

mapping configurations for different i2 Analyze schemas, so that the entities and links you extract from documents are aligned with those that you're already using.

To start the process, select **Text Analytics > Mapping Configuration**.



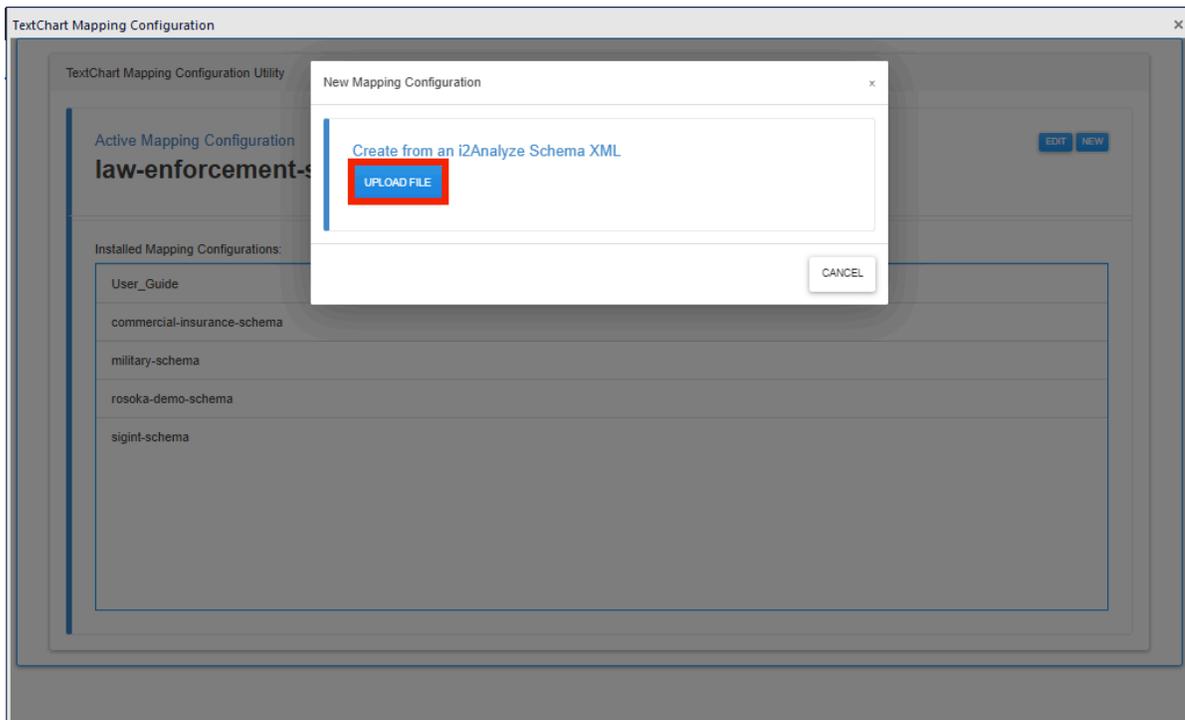
The command opens the Mapping Configuration window, where you can make changes to the active configuration, switch to a different configuration, or create a mapping configuration of your own.



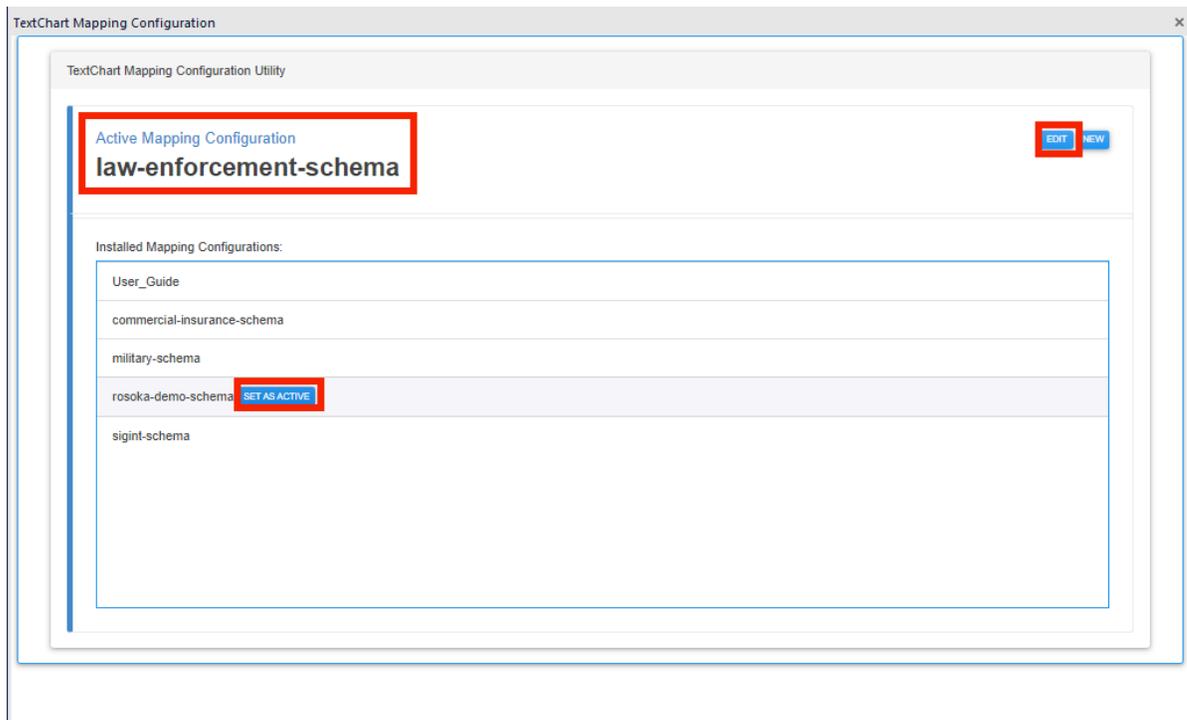
Mapping to a different schema

To start the process of mapping TextChart types to a different i2 Analyze schema, you must tell TextChart about the schema that you want to map to!

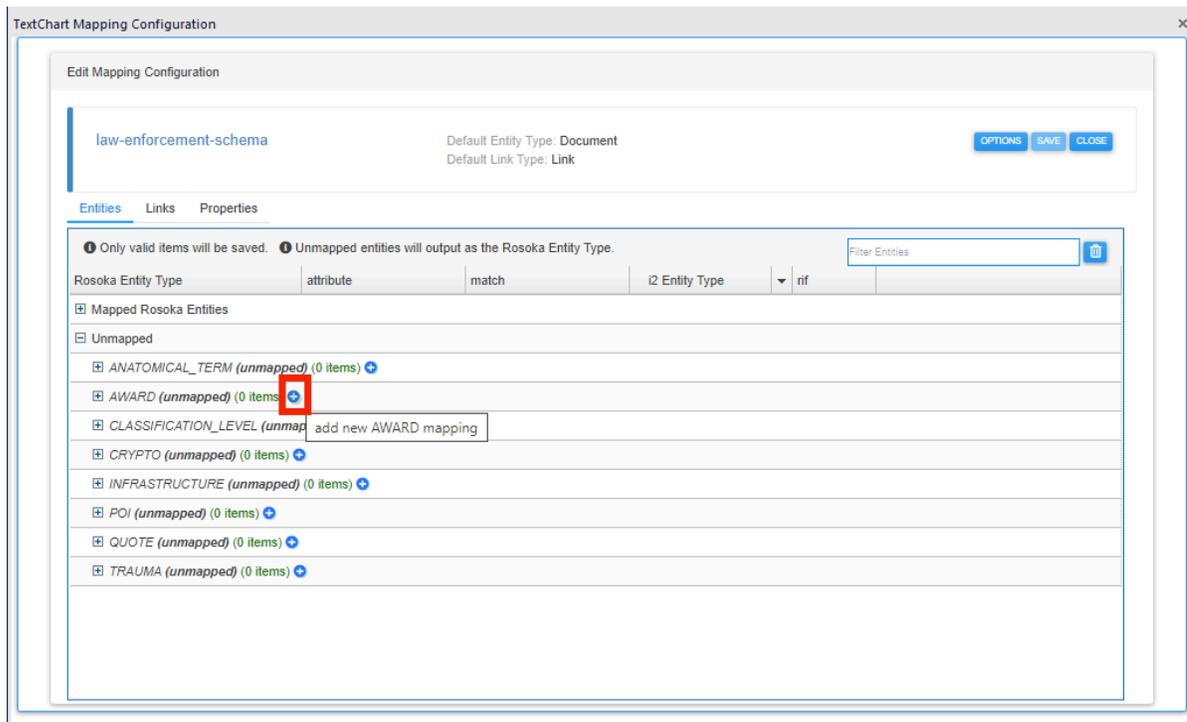
1. Click **New** to open the New Mapping Configuration window.



2. Click **UPLOAD FILE**, and locate the XML file that contains the i2 Analyze schema you want to use. When the upload succeeds, click **OK** to close the dialog. TextChart creates an empty mapping configuration for the schema and makes it active.



3. Click **Edit** to open the new mapping configuration. At this stage, all of the TextChart types are "unmapped".

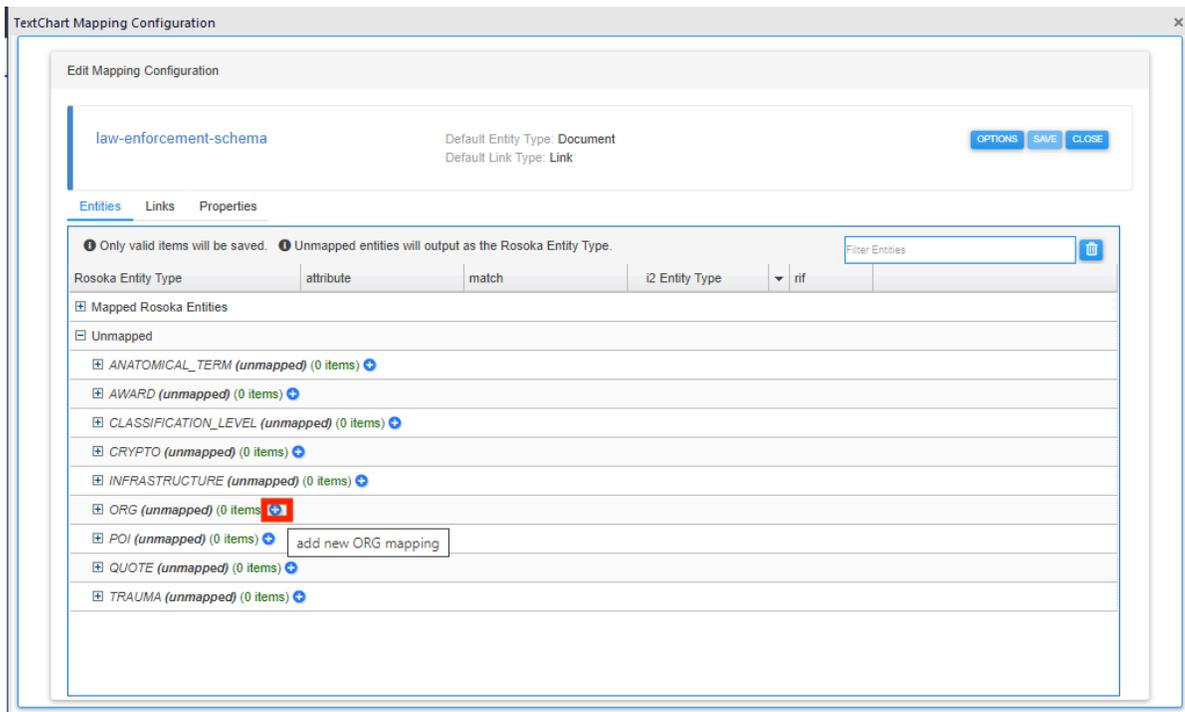


Note: When a configuration contains no mapping for a particular TextChart entity or link type, TextChart falls back to using the default mapping (and the default schema) for that type.

Mapping entity types

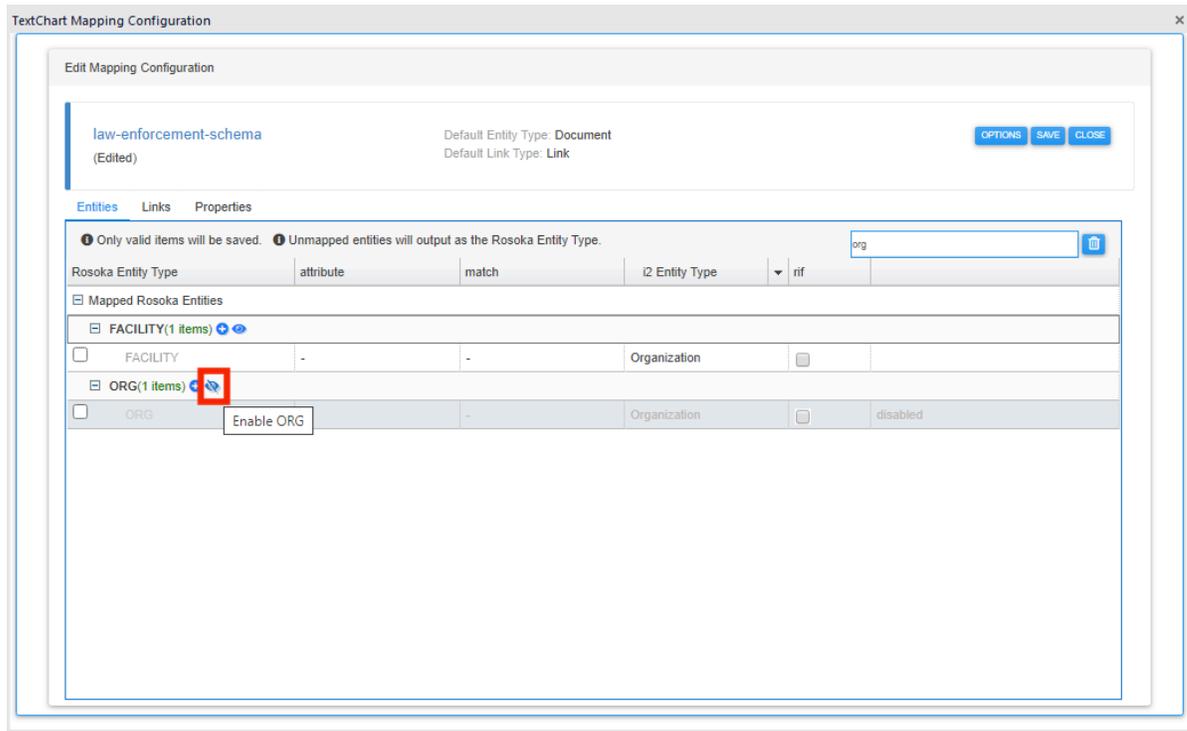
At this point, you can start to create the mappings from TextChart types to i2 Analyze schema types. It's usually easier to start with the entity types.

1. Click the "plus" icon next to the name of the TextChart type that you want to map. The type moves from the "unmapped" list to the "mapped" list:

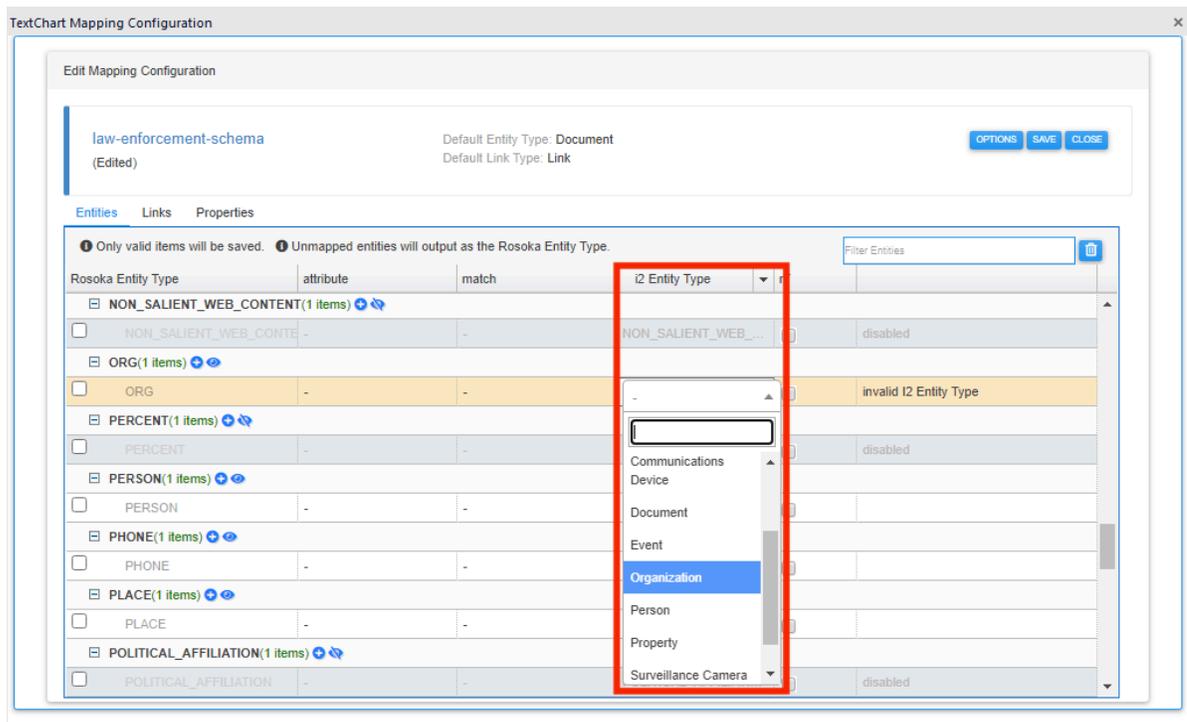


When you first move a type to the "mapped" list like this, the mapping - and, effectively, extraction - is disabled. Entities with this type do not appear in TextChart results.

2. To enable the mapping, click the crossed-out "eyeball" icon next to the type name.



- Now, you can choose the entity type in the i2 Analyze schema that you want the TextChart type to map to. Open the drop-down list in the **i2 Entity Type** column.

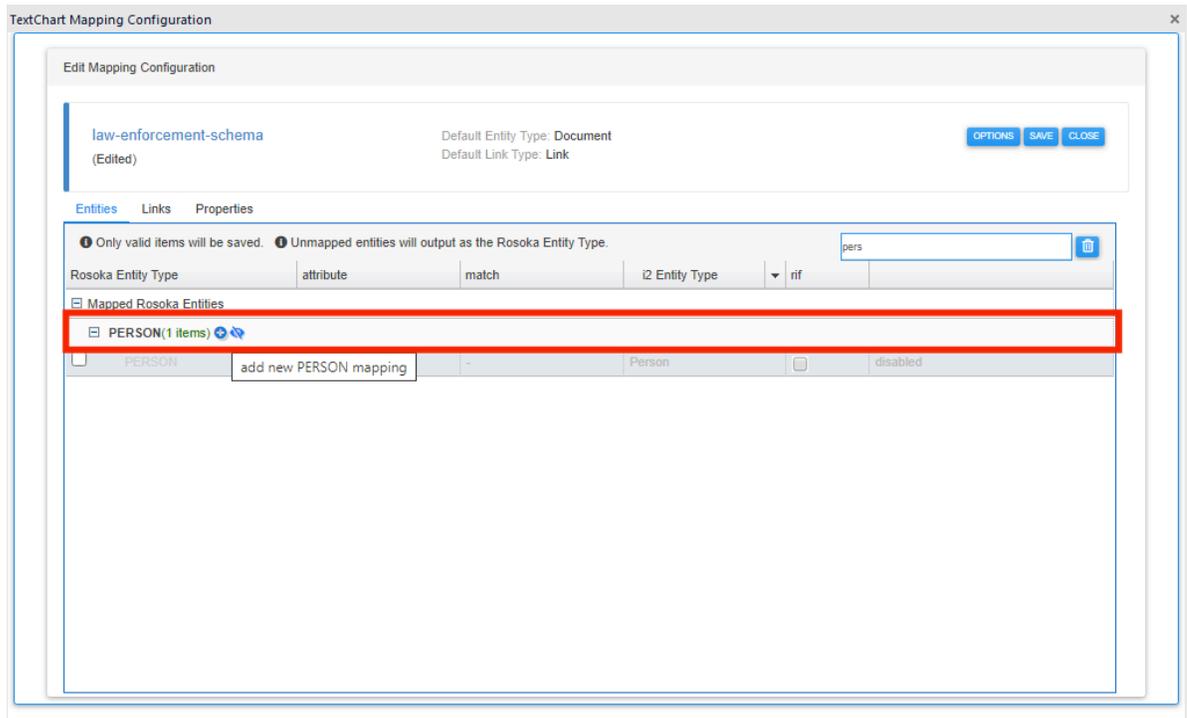


4. Select the i2 entity type that you want to use, and then click **Save** to update the mapping configuration.

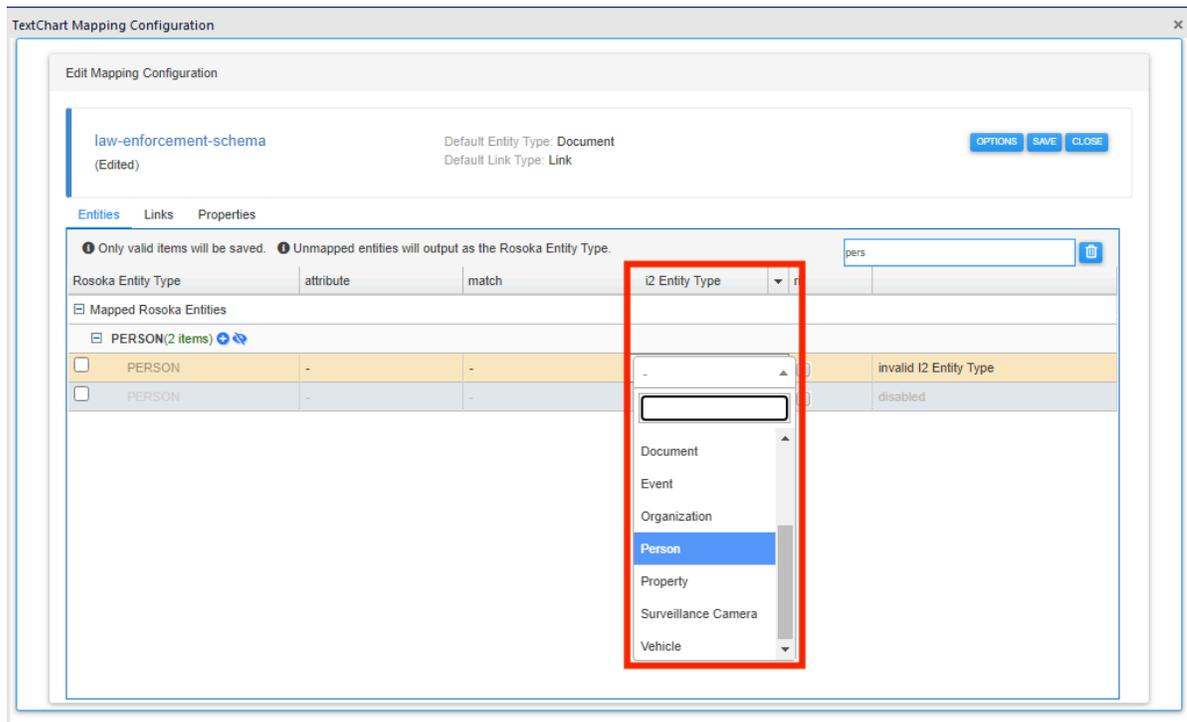
Mapping entity types based on attribute values

Sometimes, you might want to map a TextChart type to different i2 Analyze types depending on the value of a particular attribute. For example, if the i2 Analyze schema has separate Male and Female entity types, you might map TextChart Person entities whose Gender attribute is "Male" to the former, and those whose Gender attribute is "Female" to the latter.

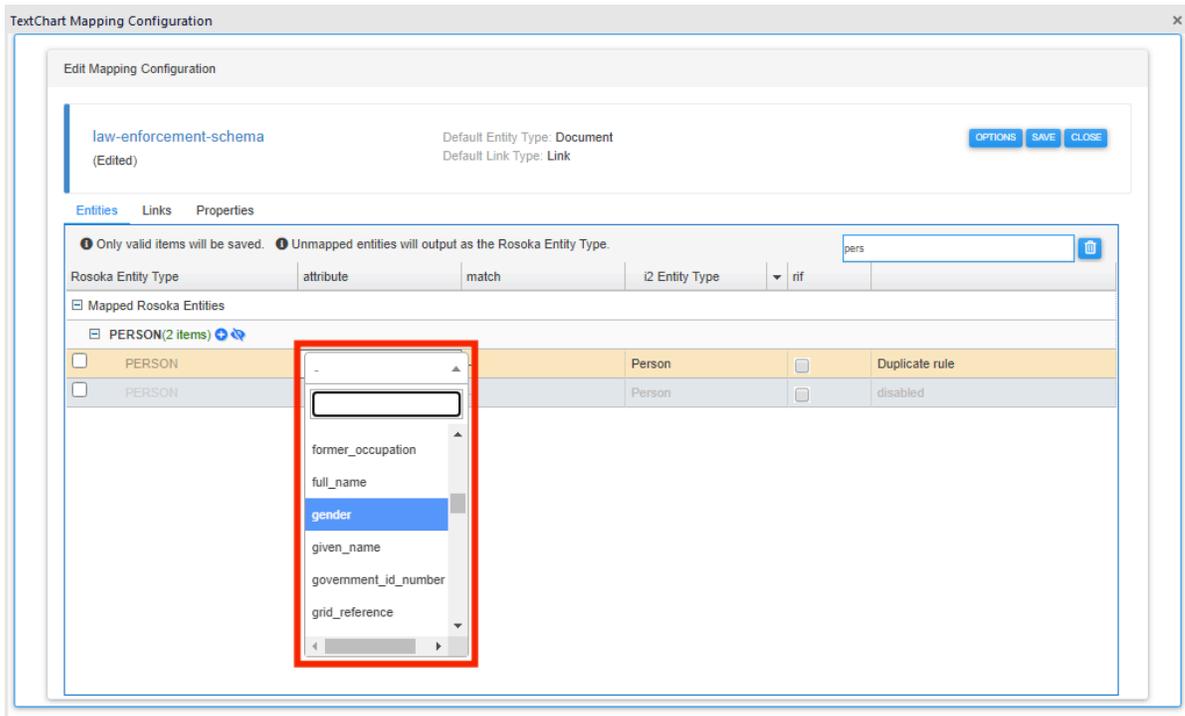
1. As before, click the "plus" icon next to the name of the TextChart entity type that you want to move to the "mapped" list.
2. Click the "plus" icon again to add a new row to the mapping configuration for the same TextChart entity type.



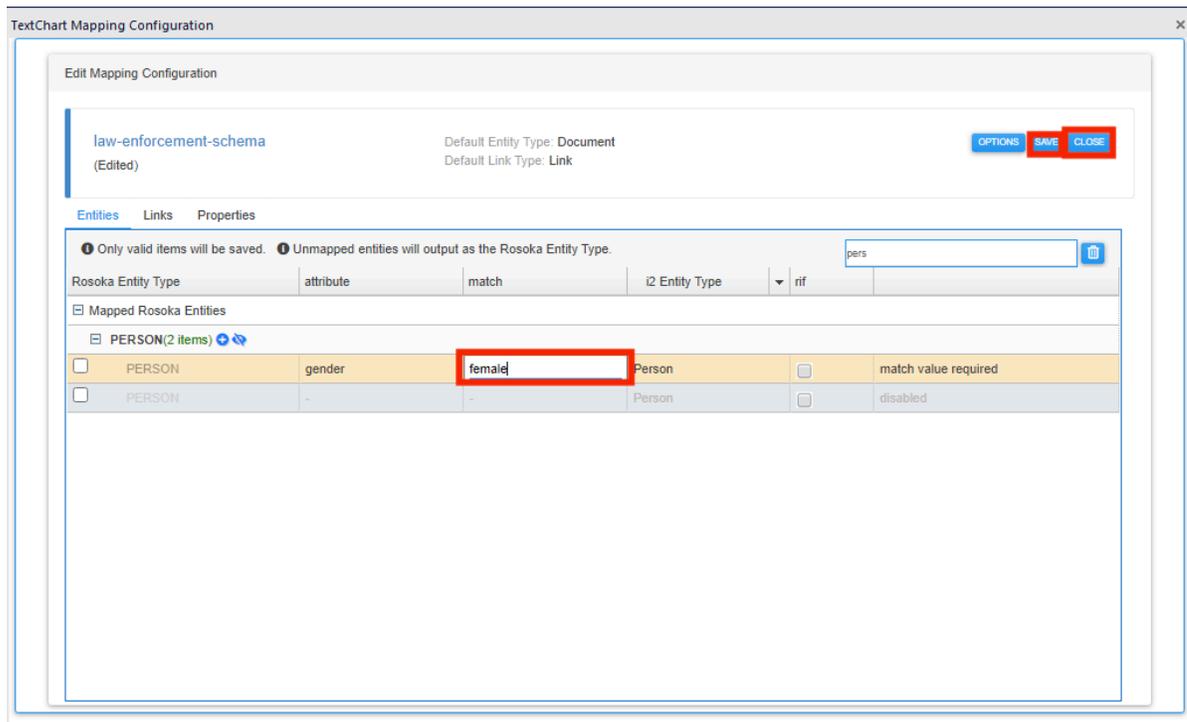
3. In the **i2 Entity Type** column, select one of the types that the TextChart entity type will be mapped to.



- In the **attribute** column, select the TextChart attribute whose value will control whether this mapping is used.



5. In the **match** column, specify the attribute value that will cause this mapping to be used.

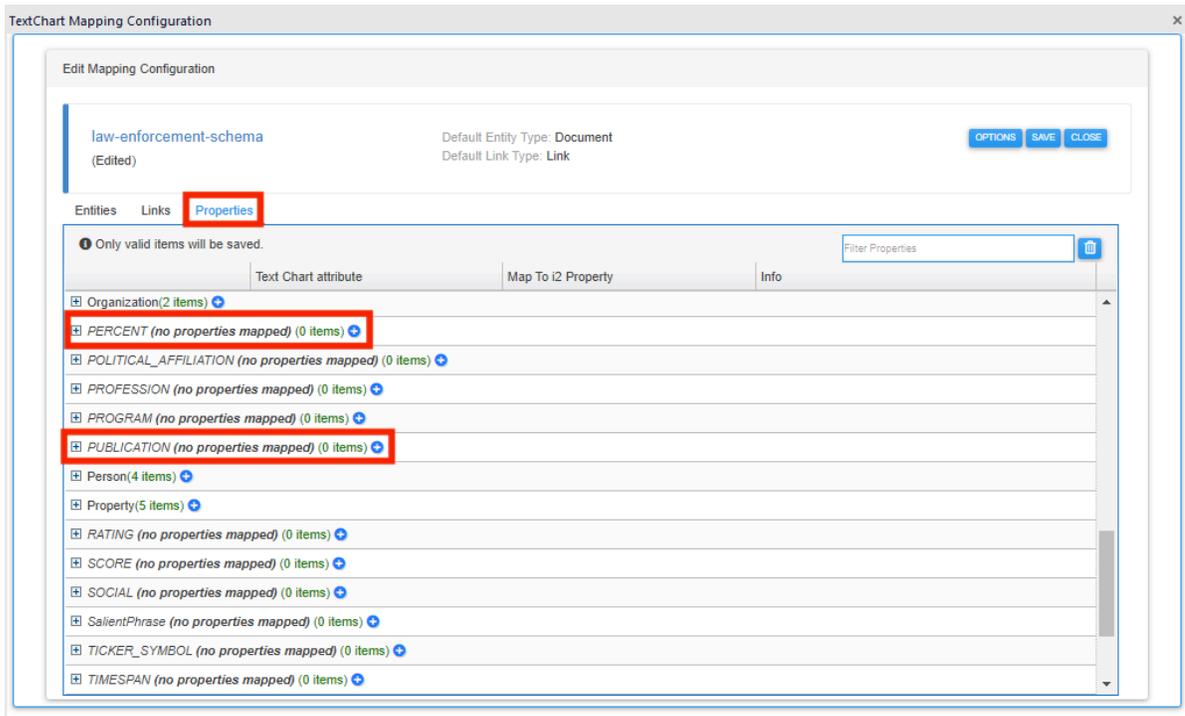


When you save this mapping configuration, the entities that you send to charts from TextChart extraction results will have different types, according to the criteria that you defined.

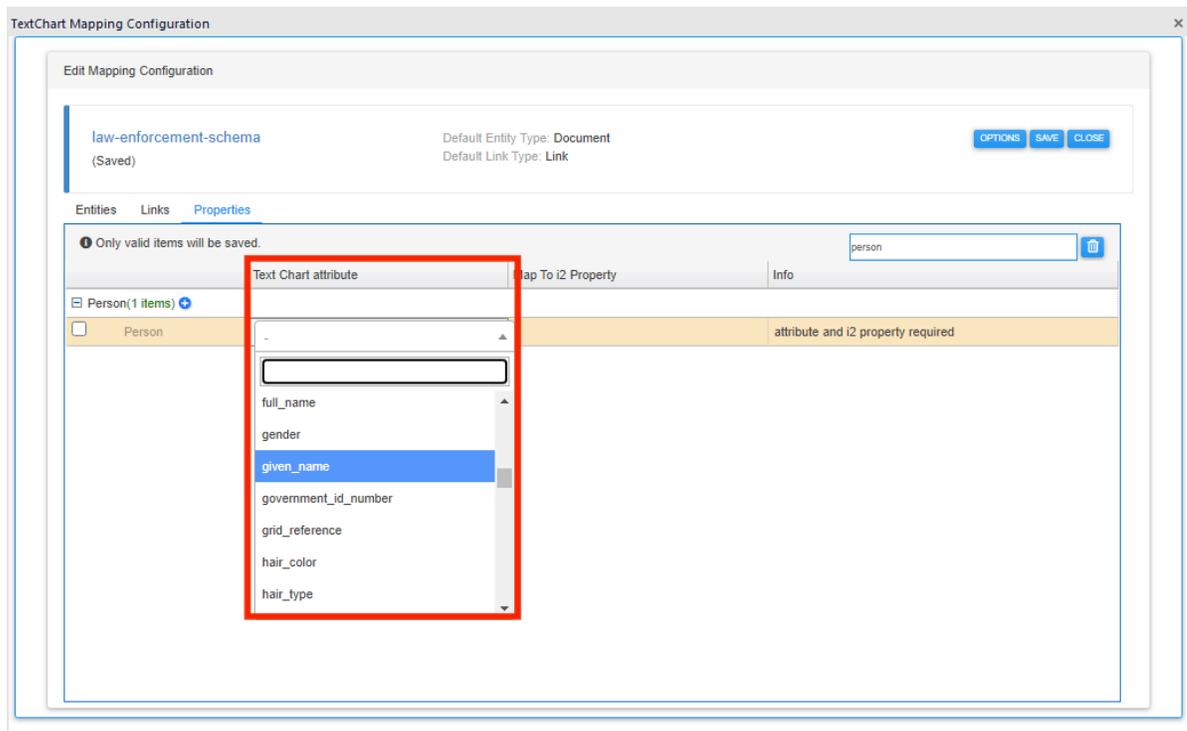
Mapping TextChart attributes to i2 Analyze property types

After you set up mappings between TextChart and i2 Analyze entity types, the next step is to configure the mappings between their attributes and property types.

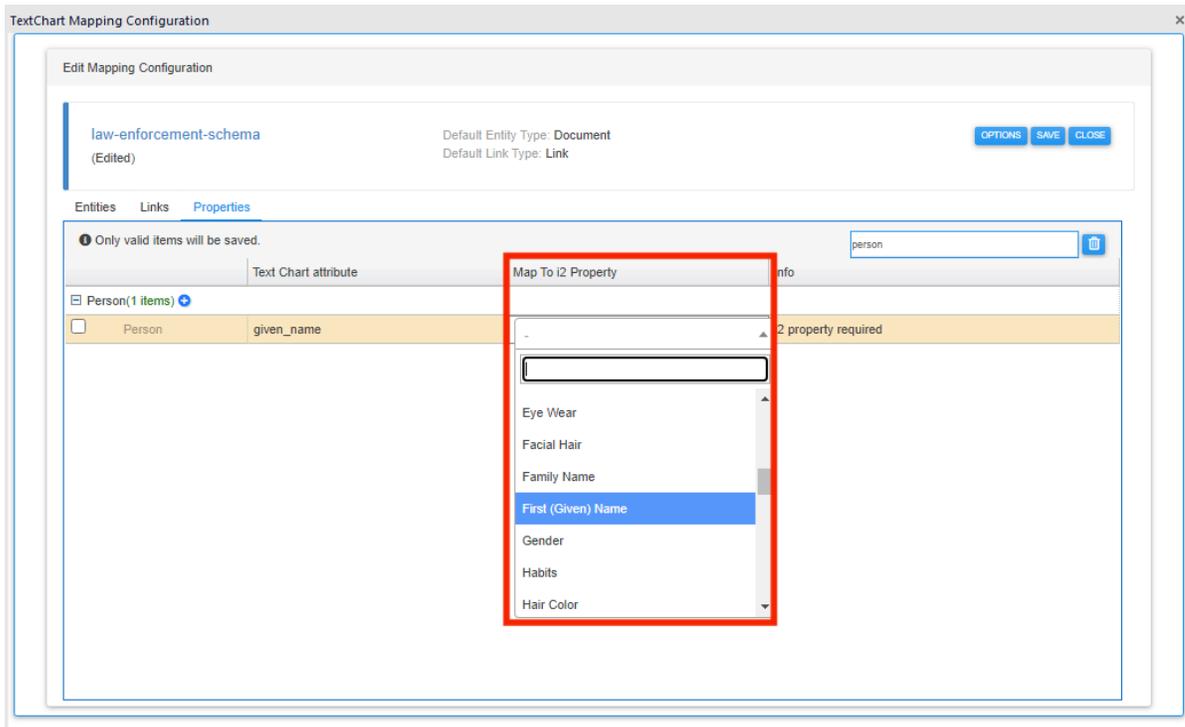
1. Select the **Properties** tab in the Mapping Configuration window to display a list of all the entity types that you've mapped.



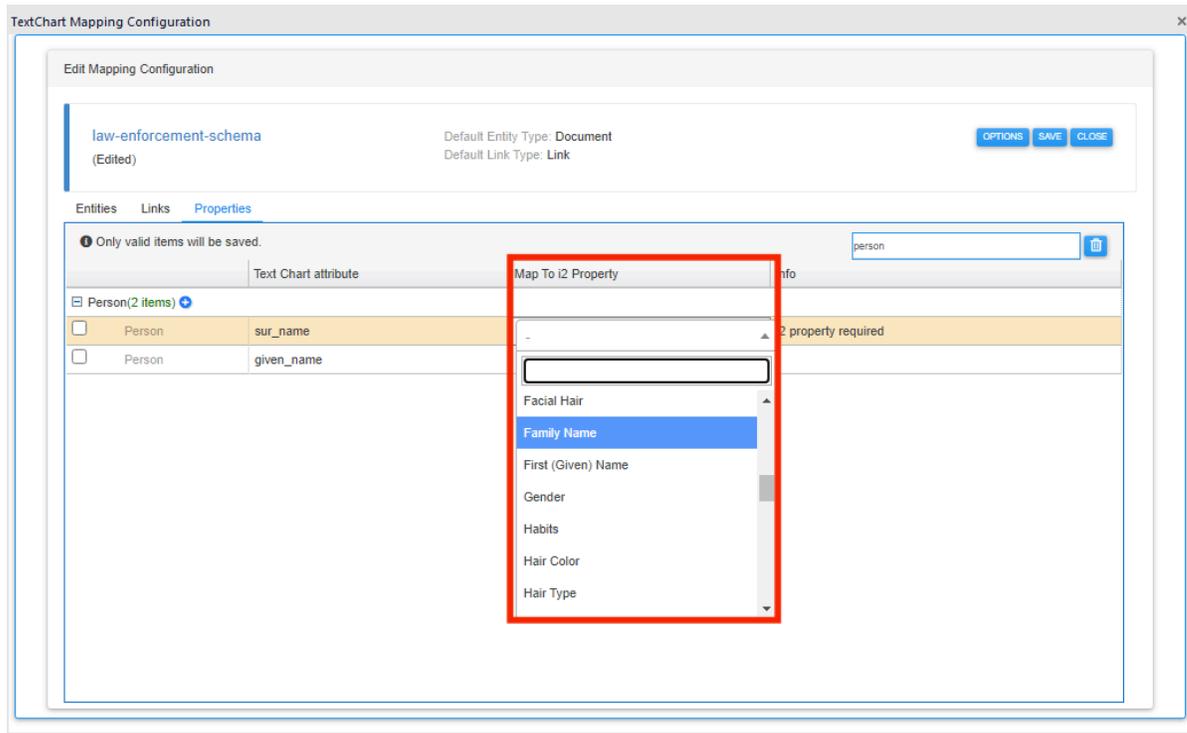
2. Click the "plus" icon next to the entity type to which you want to add a property type mapping. A new row appears below the entity type.
3. In the **TextChart attribute** column, select the attribute of the TextChart type for which you want to define a mapping.



4. In the **Map To i2 Property** column, select the property type of the i2 entity type that you want to map the attribute to.



5. Continue this process until you have created mappings for all the property types that you want to see in Analyst's Notebook charts.

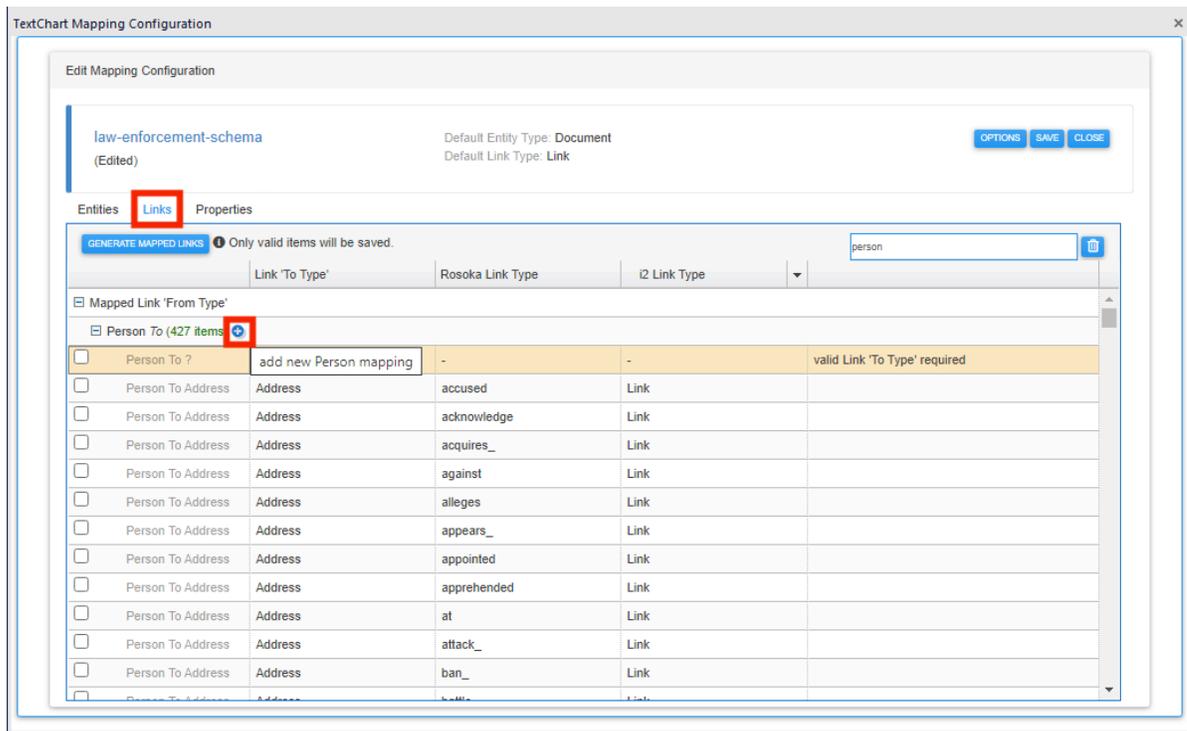


At any point in the mapping process (and always at the end), click **Save** to update the stored version of the mapping configuration.

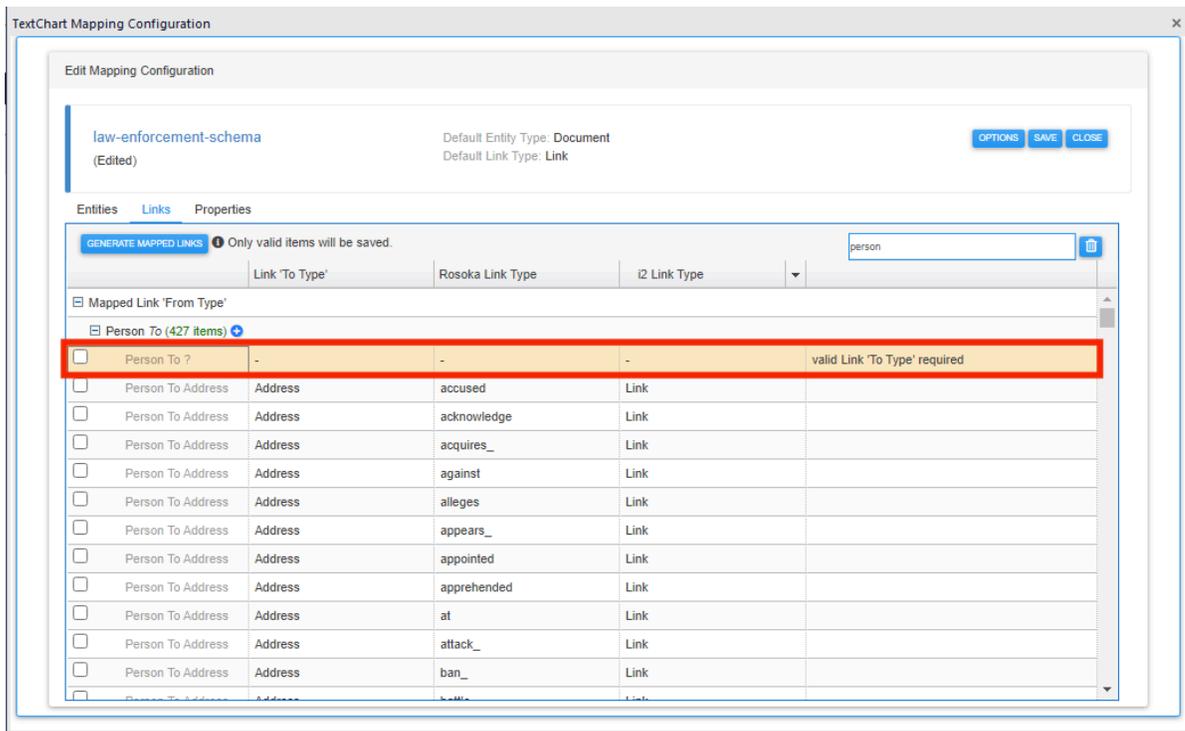
Mapping link types

You can only create mappings from TextChart link types to i2 Analyze link types after you've created the necessary entity type mappings.

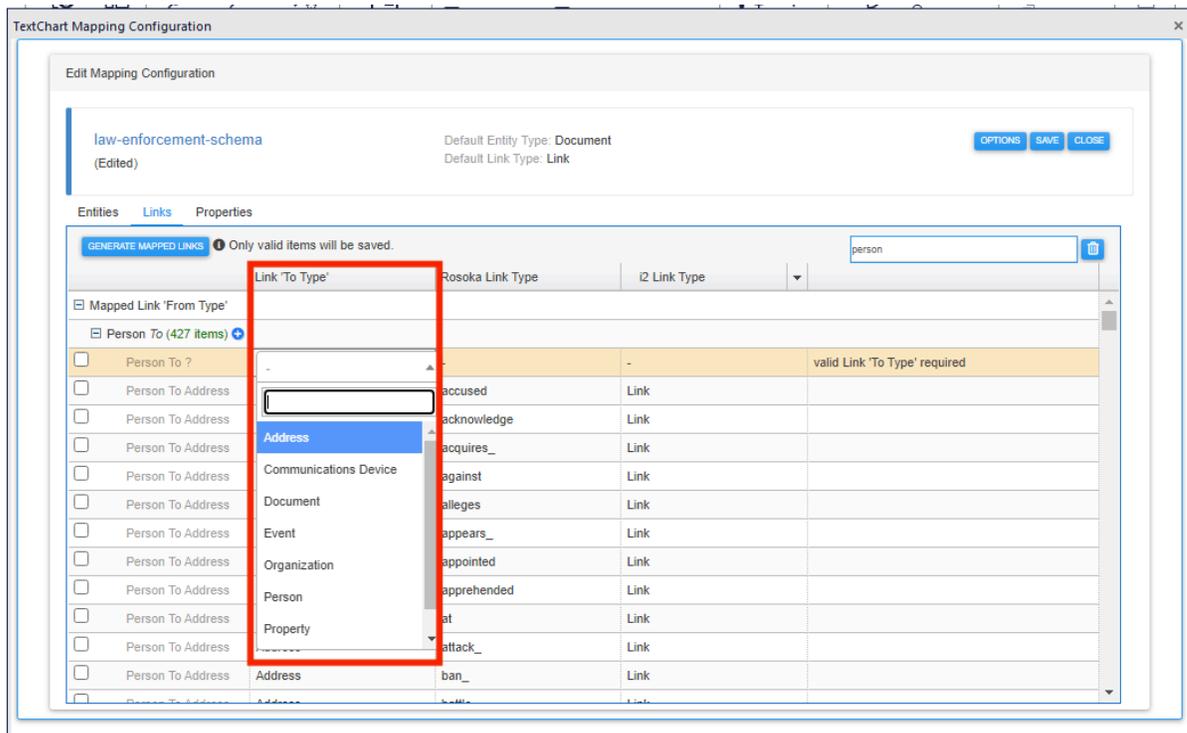
1. Select the **Links** tab in the Mapping Configuration window to display a list of all the entity types that you've mapped.



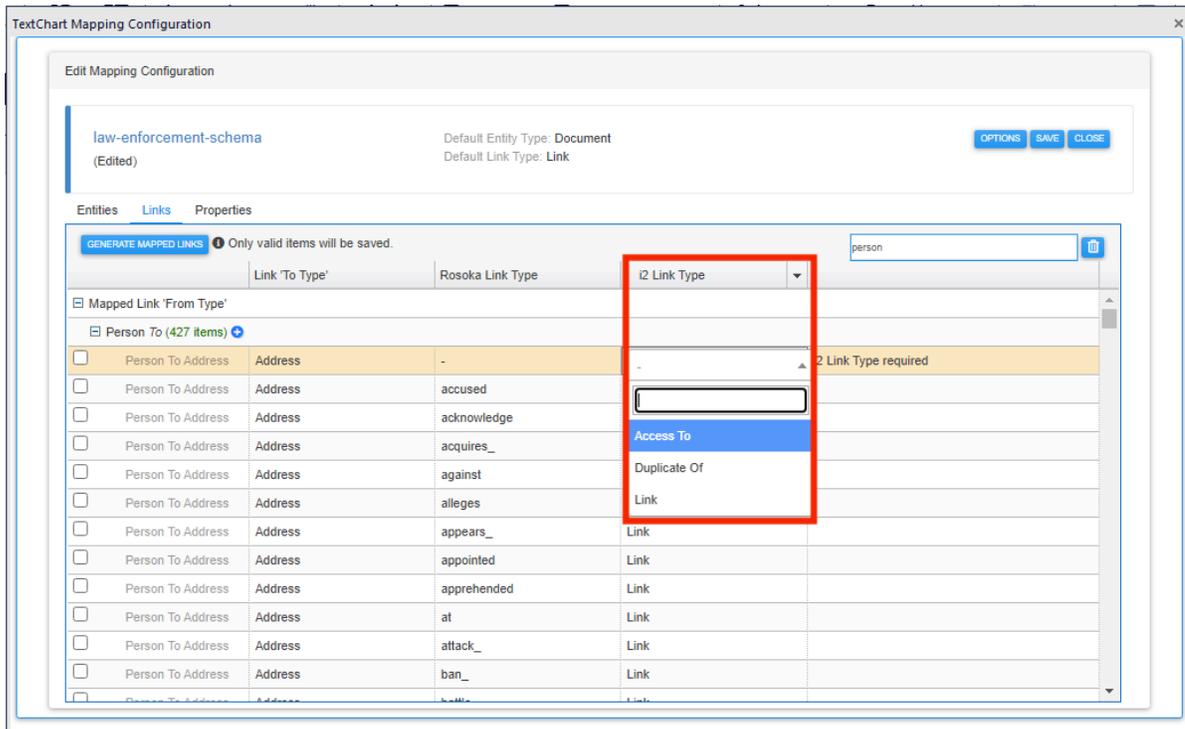
2. Click the "plus" icon next to the name of the entity type that forms the "From" end of the link type that you want to map. A new row appears below the entity type.



3. In the **Link 'To Type'** column, select the TextChart entity type that forms the "To" end of the link type that you want to map.



4. In the **i2 Link Type** column, select the i2 Analyze link type that you want to map to.



- Finally, in the **Rosoka Link Type** column, select the TextChart link type that you want to map from, and then click **Save**.

