

# Type Conversions

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## Import

When data is imported:

- Supported data types from the source are converted to corresponding data types supported by the application, based upon the conversions listed in this section.
- Types that are not supported but are recognized by the application are converted to String types.
- Data for types that cannot be read from the source due to technical reasons are converted to null values on import.

## Type Inference

By default, the Trifacta application applies type inference for imported data. The application attempts to infer a column's appropriate data type in the application based on a review of the first lines in the sample. For information on how data types are inferred, see *Overview of the Type System*.

## Export

On export from the Trifacta application:

- The application maps the internal Trifacta data type to the explicit type listed in the appropriate page in this section.
- Unmapped types are converted to the equivalent of strings.

**Tip:** You can import a target schema to assist in lining up your columns with the expected target. For more information, see *Overview of RapidTarget*.

## Supported Data Types

Item	Description
<i>String Data Type</i>	Any non-null value can be typed as String. A String can be anything. See <i>String Data Type</i> .
<i>Integer Data Type</i>	The Integer data type applies to positive and negative numeric values that have no decimal point. See <i>Integer Data Type</i> .
<i>Decimal Data Type</i>	Decimal data type applies to floating points up to 15 digits in length. <ul style="list-style-type: none"><li>• In the Trifacta application, this data type is referenced as <code>Decimal</code>.</li><li>• In storage, this data type is written as <code>Double</code>.</li></ul> See <i>Decimal Data Type</i> .
<i>Boolean Data Type</i>	The Boolean data type expresses true or false values. See <i>Boolean Data Type</i> .

<i>Social Security Number Data Type</i>	This data type is applied to numeric data following the pattern for United States Social Security numbers. See <i>Social Security Number Data Type</i> .
<i>Phone Number Data Type</i>	This data type is applied to numeric data following common patterns that express telephone numbers. See <i>Phone Number Data Type</i> .
<i>Email Address Data Type</i>	This data type matches text values that are properly formatted email addresses. See <i>Email Address Data Type</i> .
<i>Credit Card Data Type</i>	Credit card numbers are numeric data that follow the 14-digit or 16-digit patterns for credit cards. See <i>Credit Card Data Type</i> .
<i>Gender Data Type</i>	This data type matches a variety of text patterns for expressing male/female distinctions. See <i>Gender Data Type</i> .
<i>Zip Code Data Type</i>	This data type matches five- and nine-digit U.S. zipcode patterns. See <i>Zip Code Data Type</i> .
<i>State Data Type</i>	State data type is applied to data that uses the full names or the two-letter abbreviations for states in the United States. See <i>State Data Type</i> .
<i>Object Data Type</i>	An <b>Object</b> data type is a method for encoding key-value pairs. A single field value may contain one or more sets of key-value pairs. See <i>Object Data Type</i> .
<i>Array Data Type</i>	An <b>array</b> is a list of values grouped into a single value. An array may be of variable length; in one record the array field may contain two elements, while in the next record, it contains six elements. See <i>Array Data Type</i> .
<i>IP Address Data Type</i>	The IP Address data type supports IPv4 address. See <i>IP Address Data Type</i> .
<i>URL Data Type</i>	URL data type is applied to data that follows generalized patterns of URLs. See <i>URL Data Type</i> .
<i>HTTP Code Data Type</i>	Values of these data types are three-digit numeric values, which correspond to recognized HTTP Status Codes. See <i>HTTP Code Data Type</i> .
<i>Datetime Data Type</i>	Dataprep by Trifacta® supports a variety of Datetime formats, each of which has additional variations to it. See <i>Datetime Data Type</i> .

For more information on the data types that are supported within the Trifacta application, see [Supported Data Types](#).