

Data Type Validation Patterns

Contents:

- Credit Card
- Email Address
- Gender
- Phone Number
- Social Security Number
- State
- Zip Code

The following Trifacta® data types utilize regular expressions to validate data against the type. For other data types, validation is performed without using regular expressions.

For a list of Trifacta data types, see *Supported Data Types*.

Patterns matching the following regular expressions are considered valid for the listed data type.

Credit Card

```
^4\d{3}[ -]?(\d{4}[ -]?)^{3}$  
^5[1-5]\d{2}[ -]?(\d{4}[ -]?)^{3}$  
^3[4,7]\d{2}[ -]?\d{6}[ -]?\d{5}$  
^6(011|(5\d{2})) [ -]?(\d{4}[ -]?)^{3}$  
^((35\d{2}[ -]?(\d{4}[ -]?)^{3})|((1800|2131)[ -]?(\d{4}[ -]?)^{2}\d{3}))$  
^3((0[0-5]\d{1})|([6,8]\d{2})) [ -]?\d{6}[ -]?\d{5}$
```

Email Address

```
^[a-z0-9.!#$%&'*/=?^_`{|}~]+@[a-z0-9.-]+(?:\\. [a-z0-9-]+)*\\. [a-z]{2,}$
```

Gender

```
^(m(?:ale)?|f(?:emale)?)$
```

Phone Number

```
^(?:\+?1\s*(?:\.-)\s*)?(?:\(\s*(?:[2-9]1[02-9]|[2-9][02-8][0-9])\s*\)|(?:[2-9]1[02-9]|[2-9][02-8]1|[2-9][02-8][02-9])\s*(?:[.-]\s*)?)?(?:[2-9]1[02-9]|[2-9][02-9]1|[2-9][02-9]{2})\s*(?:[.-]\s*)?(?:[0-9]{4})?(?:\s*(?:#|x|\.?|ext|\.|?|extension)\s*(?:\d+))?$
```

Social Security Number

```
^(00[1-9]|0[1-9]\d|66[0-57-9]|6[0-57-9]\d|[1-57-8]\d{2})([ -]?(0[1-9]|[1-9]\d)\d{2}(000[1-9]|00[1-9]\d|0[1-9]\d{2}|[1-9]\d{3}))$
```

State

```
^
(al|ak|az|ar|ca|co|ct|de|fl|ga|hi|id|il|in|ia|ks|ky|la|me|md|ma|mi|mn|ms|mo|mt|ne|nv|nh|nj|nm|ny|nc|nd|oh|ok|or|pa|ri|sc|sd|tn|tx|ut|vt|va|wa|wv|wi|wy|pr|dc|vi)$
^
(alabama|alaska|arizona|arkansas|california|colorado|connecticut|delaware|florida|georgia|hawaii|idaho|illinois|indiana|iowa|kansas|kentucky|louisiana|maine|maryland|massachusetts|michigan|minnesota|mississippi|missouri|montana|nebraska|nevada|new hampshire|new jersey|new mexico|new york|north carolina|north dakota|ohio|oklahoma|oregon|pennsylvania|rhode island|south carolina|south dakota|tennessee|texas|utah|vermont|virginia|washington|west virginia|wisconsin|wyoming|puerto rico|district of columbia|virgin islands)$
```

Zip Code

```
^([\d]{5}|[\d]{9})$
^[\\d]{5}-[\\d]{4}
```