

# Data Type Validation Patterns

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- *Credit Card*
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- *Phone Number*
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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}))$
```

## Zip Code

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