

log

Description

Returns the logarithm of a number to a specified base. Common uses include modeling compound interest, exponential growth or decay, pH levels, and earthquake magnitudes.

Syntax

Like many functions in DataPrime, `log` supports [two notations](#), **function** and **method** notation. These interchangeable forms allow flexibility in how you structure expressions.

Function notation

```
log(base: number, number: number): number
```

Method notation

```
(base: number).log(number: number): number
```

Arguments

Name	Type	Required	Description
base	number	true	The logarithmic base (e.g. 2 for log base 2)
number	number	true	The value whose logarithm will be computed

Example

Use case: Compute a log base 2 transformation

Calculate the log base 2 of a numerical field and store the result in a new field.

Example data

```
{
  "some_value": 16
}
```

Example query

Function notation

```
create log_field from log(2, some_value)
```

Method notation

```
create log_field from 2.log(some_value)
```

Example output

```
{  
  "some_value": 16,  
  "log_field": 4  
}
```

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