

Lua [placeholders] Example*

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Basics

Wrong parameter:

```
\param{non existing}  $\Rightarrow$  [ $\langle$ unknown $\rangle$  non existing]
```

Conditional Parameter:

```
\hasparam{list example}{is set}{is not set}  $\Rightarrow$  is not set
```

Before values loaded

Boolean example:

```
\param{bool example}  $\Rightarrow$  false
```

```
\ifparam{bool example}{TRUE}{FALSE}  $\Rightarrow$  FALSE
```

String example:

```
\param{string example}  $\Rightarrow$  “[A string]”
```

Number example:

```
\rawparam{\jobname}{number example}  $\Rightarrow$  -1.21
```

```
\param{number example}  $\Rightarrow$  \numprint{-1.21}  $\Rightarrow$  -1.21
```

*This example corresponds to lua-placeholders version 1.0.1 written on 2024-02-12.

Number in foreign language:

```
\selectlanguage{dutch}\param{number example}
⇒ -1,21
```

List example:

```
\param{list example} ⇒ [A string, A second string]
```

```
\begin{enumerate}
  \newcommand\formatitem[1]{\item #1}
  \forlistitem{list example}{\formatitem}
\end{enumerate}
```

⇒

1. [A string]
2. [A second string]

Object example:

```
\paramfield{object example}{name}
\paramfield{object example}{email}
\paramfield{object example}{grade}
⇒ [Your name] [Your email] 5.5
```

```
\newcommand\name{...}
\begin{paramobject}{object example}
  \name \email \grade
\end{paramobject}
% And here it works again
\name
⇒ [Your name] [Your email] 5.5 ...
```

Table example:

```
\nprounddigits{2}
\newcommand\formatrow{\description & \price \\\%
\begin{tabular}{l | l}
  \textbf{Description} & \textbf{Price} \\\hline
  \fortablerow{table example}{\formatrow}
\end{tabular}
\npnoround
```

⇒

Description	Price
[The description]	[The price]

After values loaded

Boolean example:

```
\param{bool example}  $\Rightarrow$  true
```

```
\ifparam{bool example}{TRUE}{FALSE}  $\Rightarrow$  TRUE
```

String example:

```
\param{string example}  $\Rightarrow$  “PeelInc.”
```

Number example:

```
\rawparam{\jobname}{number example}  $\Rightarrow$  1.21
```

```
\param{number example}  $\Rightarrow$  \numprint{1.21}  $\Rightarrow$  1.21
```

Number in foreign language:

```
\selectlanguage{dutch}\param{number example}  
 $\Rightarrow$  \numprint{1.21}  $\Rightarrow$  1,21
```

List example:

```
\param{list example}  $\Rightarrow$  Tomatoes, Potatoes
```

```
\begin{enumerate}  
  \newcommand\formatitem[1]{\item #1}  
  \forlistitem{list example}{formatitem}  
\end{enumerate}
```

\Rightarrow

1. Tomatoes

2. Potatoes

Object example:

```
\paramfield{object example}{name}  
\paramfield{object example}{email}  
\paramfield{object example}{grade}  
 $\Rightarrow$  John Doe j.doe@example.com 9.5
```

```
\newcommand\name{...}  
\begin{paramobject}{object example}
```

```

\name \email \grade
\end{paramobject}
% And here it works again
\name
⇒ John Doe j.doe@example.com 9.5 ...

```

Table example:

```

\nprounddigits{2}
\newcommand\formatrow{\description & \price \\\%
\begin{tabular}{l | l}
\textbf{Description} & \textbf{Price} \\\ \hline
\fortablerow{table example}{\formatrow}
\end{tabular}
\npround

```

⇒

Description	Price
Peeling tomatoes	50.00
Peeling potatoes	25.00

Payload File

```

1 bool example: true
2 string example: PeelInc.
3 number example: 1.21
4 list example:
5   - Tomatoes
6   - Potatoes
7 object example:
8   name: John Doe
9   email: j.doe@example.com
10  grade: 9.5
11 table example:
12  - description: Peeling tomatoes
13    price: 50
14  - description: Peeling potatoes
15    price: 25

```

Listing 1: example.yaml

Specification File

```

1 bool example:
2   type: bool
3   default: false

```

```

4 string example:
5   type: string
6   placeholder: A string
7 number example:
8   type: number
9   default: -1.21
10 list example:
11   type: list
12   item type: string
13   default:
14     - A string
15     - A second string
16 object example:
17   type: object
18   fields:
19     name:
20       type: string
21       placeholder: Your name
22     email:
23       type: string
24       placeholder: Your email
25     grade:
26       type: number
27       default: 5.5
28 table example:
29   type: table
30   columns:
31     description:
32       type: string
33       placeholder: The description
34     price:
35       type: number
36       placeholder: The price

```

Listing 2: example-specification.yaml