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```

## Filter variables with regex

Using the Regex Query option, you filter the list of options returned by the variable query or modify the options returned.

This page shows how to use regex to filter/modify values in the variable dropdown.

Using the Regex Query Option, you filter the list of options returned by the Variable query or modify the options returned. For more information, refer to the Mozilla guide on Regular expressions.

Examples of filtering on the following list of options:

```
backend_01  
backend_02  
backend_03  
backend_04
```

**Filter so that only the options that end with 01 or 02 are returned:**

Regex:

```
/(01|02)$/
```

Result:

```
backend_01  
backend_02
```

**Filter and modify the options using a regex capture group to return part of the text:**

Regex:

```
/.*(01|02)/
```

Result:

```
01  
02
```

## Filter and modify - Prometheus Example

List of options:

```
up{instance="demo.robustperception.io:9090",job="prometheus"} 1 1521630638000
up{instance="demo.robustperception.io:9093",job="alertmanager"} 1 1521630638000
up{instance="demo.robustperception.io:9100",job="node"} 1 1521630638000
```

Regex:

```
/. *instance="([^\"]*)".*/
```

Result:

```
demo.robustperception.io:9090
demo.robustperception.io:9093
demo.robustperception.io:9100
```

## Filter and modify using named text and value capture groups

**Note:** This feature is available in Grafana 7.4+.

Using named capture groups, you can capture separate ‘text’ and ‘value’ parts from the options returned by the variable query. This allows the variable drop-down list to contain a friendly name for each value that can be selected.

For example, when querying the `node_hwmon_chip_names` Prometheus metric, the `chip_name` is a lot friendlier than the `chip` value. So the following variable query result:

```
node_hwmon_chip_names{chip="0000:d7:00_0_0000:d8:00_0",chip_name="enp216s0f0np0"} 1
node_hwmon_chip_names{chip="0000:d7:00_0_0000:d8:00_1",chip_name="enp216s0f0np1"} 1
node_hwmon_chip_names{chip="0000:d7:00_0_0000:d8:00_2",chip_name="enp216s0f0np2"} 1
node_hwmon_chip_names{chip="0000:d7:00_0_0000:d8:00_3",chip_name="enp216s0f0np3"} 1
```

Passed through the following Regex:

```
/chip_name="(?(<text>[^\"]+)|chip="(?(<value>[^\"]+))/g
```

Would produce the following drop-down list:

Display Name	Value
enp216s0f0np0	0000:d7:00_0_0000:d8:00_0
enp216s0f0np1	0000:d7:00_0_0000:d8:00_1
enp216s0f0np2	0000:d7:00_0_0000:d8:00_2
enp216s0f0np3	0000:d7:00_0_0000:d8:00_3

**Note:** Only `text` and `value` capture group names are supported.