Regular Expressions Cookbook, 2nd Edition by Steven Levithan, Jan Go...

6.7. Numbers Within a Certain Range

Problem

You want to match an integer number within a certain range of numbers. You want the regular expression to specify the range accurately, rather than just limiting the number of digits.

Solution

1 to 12 (hour or month):

```
^(1[0-2]|[1-9])$
```

> **Regex options:** None
>
> **Regex flavors:** .NET, Java, JavaScript, PCRE, Perl, Python, Ruby

1 to 24 (hour):

```
^(2[0-4]|1[0-9]|[1-9])$
```

1 to 31 (day of the month):

```
^(3[01]|[12][0-9]|[1-9])$
```

1 to 53 (week of the year):

```
^(5[0-3]|[1-4][0-9]|[1-9])$
```

0 to 59 (minute or second):

```
^[1-5]?[0-9]$
```

0 to 100 (percentage):

```
^(100|[1-9]?[0-9])$
```

1 to 100:

```
^(100|[1-9][0-9]?)$
```

32 to 126 (printable ASCII codes):

```
^(12[0-6]|1[01][0-9]|[4-9][0-9]|3[2-9])$
```

0 to 127 (nonnegative signed byte):

```
^(12[0-7]|1[01][0-9]|[1-9]?[0-9])$
```

–128 to 127 (signed byte):

```
^(12[0-7]|1[01][0-9]|[1-9]?[0-9]|-(12[0-8]|1[01][0-9]|[1-9]?[0-9]))$ ...
```

Get *Regular Expressions Cookbook, 2nd Edition* now with O'Reilly online learning.

O'Reilly members experience live online training, plus books, videos, and digital content from 200+ publishers.

START YOUR FREE TRIAL

O'REILLY®