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Modul:Gapnum/Doku

Dies ist die Dokumentationsseite für Modul:Gapnum

This module is used by Vorlage:Tl.

Use in other modules

gaps

The `gaps` function can be useful for formatting in other modules that work with displaying large numbers.

```
local gaps = require('Module:Gapnum').gaps
```

Using the `gaps` function, the first argument is the number to format. The second argument can be a table with keys that tell the module how to format. The table keys that can be used are:

- `gap` - a number with CSS units (px, em, en, etc) that define the size of the gap between numbers. If blank, the module will use `0.25em`.
- `prec` - a number that determines the precision of the decimal part of the number. If the precision is less than the number of digits, extra digits will be removed without rounding; if it is more, zeroes will be added to the end to create the desired precision. If blank, the module will use `-1`, which means the precision will be the same as the number given; no digits added or removed.

Note that the return statement is a table. This means more styling or text can be added to the wrapper span tag, but it may also mean that `tostring()` may be required when used in other modules.

```
local gaps = require('Module:Gapnum').gaps

function example()
local n = 123456.78900011
-- Example for just simple formatting of a number
-- n_gaps will use the default, .25em gaps and no change in precision
-- The result will have its gaps created with inline css
-- But the result would look like:
-- 123 456.789 000 11
local n_gaps = gaps(n)

-- Different gap size
-- These will format n into the same groups as above
-- But the spaces between the groups will be larger and smaller, respectively
local n_big_gaps = gaps(n, {gap='1em'})
local n_small_gaps = gaps(n, {gap='1px'})

-- Different precision
-- n_prec_5 will use the number 123456.78900
-- The result would look like:
```

```
-- 123 456.789 00
local n_prec_5 = gaps(n, {prec=5})
-- n_prec_10 will use the number 123456.7890001100
-- The result would look like:
-- 123 456.789 000 1100
local n_prec_10 = gaps(n, {prec=10})

-- Both different gaps and precision can be used:
local n_big_5 = gaps(n, {gap='1em', prec=5})
local n_small_10 = gaps(n, {gap='1px', prec=10})
end
```

groups

The `groups` function can be used in other modules to separate a number into groups as `gaps` does, but instead of a formatted `string`, the function will return tables whose elements are the separated groups.

```
local groups = require('Module:Gapnum').groups

function example()
-- This will return one table:
-- {123,456}
local n1 = groups(123456)

-- This will return two tables, each assigned to a different variable:
-- n2a will be:
-- {1,234}
-- n2b will be:
-- {567,89}
local n2a,n2b = groups(1234.56789)

-- This will return two tables:
-- An integer part is always returned, even if it is 0
-- n3a will be:
-- {0}
-- n3b will be:
-- {123,4567}
local n3a,n3b = groups(0.1234567)

-- Just like the other functions, a precision can be defined
-- precision is simply the second parameter
-- n4a will be:
-- {123}
-- n4b will be:
-- {456,700,00}
local n4a,n4b = groups(123.4567,8)
end
```