



УСЛОВИЯ И ЦИКЛЫ В Ruby

If, If-else, Case, While, Until, Loop



Создание простых проверок

```
1 products_count = 10
2
3 if products_count < 1
4   puts 'We are out of products'
5 end
6
7 puts 'We are out of products' if products_count < 1
8
9 p products_count > 1, products_count <= 1, products_count >= 1, products_count != 1, products_count == 1
10 #=> true, false, true, true, false
11
12 if !(products_count < 1)
13   puts 'We have enough products'
14 end
15
16 puts 'We have enough products' unless products_count < 1
17
```

Проверка нескольких условий

```
18  if products_count < 1
19      puts 'We are out of products'
20  elsif products_count == 10
21      puts 'We have many products'
22  else
23      puts 'We have enough products'
24  end
25
26  country = 'FR'
27
28  puts 'We have enough products in FR' if products_count > 1 && country == 'FR'
29
30  age = 10
31
32  if age == 10 || age == 20
33      puts 'The age is 10 or 20'
34  end
35
36  puts age == 10 || age == 20 ? 'The age is 10 or 20' : 'The age isn\'t 10 or 20'
37
```

Условный оператор Case

```
1  puts (1..10) === 5, (1..10).include?(5) #=> true, true
2
3  puts (/abc/ === 'abcdef'), /abc/.match?('abcdef') #=> true, true
4
5  puts String === 'foo', 'foo'.is_a?(String) #=> true, true
6
7  ['1', 2, :a].any?(Integer) #=> puts true
8
9  def check_percent(percent)
10     case percent
11     when 0
12         'No percent'
13     when 1..20
14         'Low percent'
15     when 21..50
16         'Good percent'
17     when 51..80
18         'Very good percent'
19     when 81..100
20         'Excellent percent'
21     else
22         'Wrong percent'
23     end
24 end
```

Запись case условий через if

```
26  def check_percent_short(percent)
27      if 0..20 === percent
28          'Low percent'
29      elsif 21..80 === percent
30          'Good percent'
31      elsif 81..100 === percent
32          'Excellent percent'
33      else
34          'Wrong percent'
35      end
36  end
37
38  puts check_percent(30)
39  puts check_percent(130)
40
41  puts check_percent(30)
42  puts check_percent(130)
--
```

Примеры циклов в Ruby

```
1  def iterate_example(&block)
2    param = 5
3
4    block.call(param)
5
6    puts
7  end
8
9  iterate_example do |param|
10   while param > 0
11     print param, ' ' #=> 5 4 3 2 1
12     param -= 1
13   end
14 end
15
16
17 iterate_example do |param|
18   begin
19     print param, ' ' #=> 5 4 3 2 1
20     param -= 1
21   end while param != 0
22 end
23
24 iterate_example do |param|
25   until param == 0
26     print param, ' ' #=> 5 4 3 2 1
27     param -= 1
28   end
29 end
```

Примеры циклов. Продолжение

```
31 iterate_example do |param|
32   loop do
33     print param, ' ' #=> 5 6 7 8 9
34     param += 1
35
36     break if param == 10
37   end
38 end
39
40 iterate_example do |param|
41   for i in 1..param
42     break if i > 3
43     print i, ' ' #=> 1 2 3
44   end
45
46   puts
47
48   (1..param).each do |i|
49     next if i < 3
50
51     print i, ' ' #=> 3 4 5
52   end
53
54   puts
55
56   param.times do |i|
57     print i, ' ' #=> 0 1 2 3 4
58   end
59 end
```

Полезные ссылки

<https://www.rubyguides.com/ruby-tutorial/ruby-if-else/> – Описание условных конструкций;

<https://www.rubyguides.com/2015/10/ruby-case/> – Описание case оператора;

<https://dev.to/baweaver/understanding-ruby-triple-equals-2p9c> – О понимании оператора "===";

https://www.tutorialspoint.com/ruby/ruby_loops.htm – Статья про циклы.

Конец! Спасибо!