http://www.tutorialspoint.com/ruby/ruby\_if\_else.htm

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Ruby offers conditional structures that are pretty common to modern languages. Here, we will explain all the conditional statements and modifiers available in Ruby.

### Ruby if...else Statement:

### Syntax:

```
if conditional [then]
   code...
[elsif conditional [then]
   code...]...
[else
   code...]
end
```

*if* expressions are used for conditional execution. The values *false* and *nil* are false, and everything else are true. Notice Ruby uses elsif, not else if nor elif.

Executes *code* if the *conditional* is true. If the *conditional* is not true, *code* specified in the else clause is executed.

An if expression's *conditional* is separated from code by the reserved word *then*, a newline, or a semicolon.

### **Example:**

```
#!/usr/bin/ruby
x=1
if x > 2
    puts "x is greater than 2"
elsif x <= 2 and x!=0
    puts "x is 1"
else
    puts "I can't guess the number"
end</pre>
```

x is 1

### Ruby if modifier:

#### Syntax:

code if condition

Executes code if the conditional is true.

### Example:

```
#!/usr/bin/ruby
$debug=1
print "debug\n" if $debug
```

This will produce the following result:

debug

### Ruby unless Statement:

# Syntax:

unless conditional [then] code [else code ] end

Executes *code* if *conditional* is false. If the *conditional* is true, code specified in the else clause is executed.

# Example:

```
#!/usr/bin/ruby
x=1
unless x>2
    puts "x is less than 2"
else
    puts "x is greater than 2"
end
```

This will produce the following result:

 $\boldsymbol{x}$  is less than  $\boldsymbol{2}$ 

## Ruby unless modifier:

## Syntax:

code unless conditional

Executes code if conditional is false.

# Example:

```
#!/usr/bin/ruby
$var = 1
print "1 -- Value is set\n" if $var
print "2 -- Value is set\n" unless $var
$var = false
print "3 -- Value is set\n" unless $var
```

This will produce the following result:

1 -- Value is set 3 -- Value is set

### Ruby case Statement

### Syntax:

```
case expression
[when expression [, expression ...] [then]
    code ]...
[else
    code ]
end
```

Compares the *expression* specified by case and that specified by when using the === operator and executes the *code* of the when clause that matches.

The *expression* specified by the when clause is evaluated as the left operand. If no when clauses match, *case* executes the code of the *else* clause.

A when statement's expression is separated from code by the reserved word then, a newline, or a semicolon.

Thus:

```
case expr0
when expr1, expr2
   stmt1
when expr3, expr4
   stmt2
else
   stmt3
end
```

is basically similar to the following:

```
_tmp = expr0
if expr1 === _tmp || expr2 === _tmp
   stmt1
elsif expr3 === _tmp || expr4 === _tmp
   stmt2
else
   stmt3
end
```

#### Example:

```
#!/usr/bin/ruby
$age = 5
case $age
when 0 .. 2
    puts "baby"
when 3 .. 6
    puts "little child"
when 7 .. 12
    puts "child"
when 13 .. 18
    puts "youth"
else
    puts "adult"
end
```

This will produce the following result:

little child