

Miscellaneous Syntax

Ending an Expression

Ruby uses a newline as the end of an expression. When ending a line with an operator, open parentheses, comma, etc. the expression will continue.

You can end an expression with a ; (semicolon). Semicolons are most frequently used with ruby -e.

Indentation

Ruby does not require any indentation. Typically ruby programs are indented two spaces.

If you run ruby with warnings enabled and have an indentation mis-match you will receive a warning.

alias

The alias keyword is most frequently used to alias methods. When aliasing a method you can use either its name or a symbol:

```
alias new_name old_name
alias :new_name :old_name
```

For methods, Module#alias_method can often be used instead of alias.

You can also use alias to alias global variables:

```
$old = 0

alias $new $old

p $new # prints 0
```

You may use alias in any scope.

undef

The undef keyword prevents the current class from responding to calls to the named methods.

```
undef my_method
```

You may use symbols instead of method names:

```
undef :my_method
```

You may undef multiple methods:

```
undef method1, method2
```

You may use undef in any scope. See also `Module#undef_method`

defined?

`defined?` is a keyword that returns a string describing its argument:

```
p defined?(UNDEFINED_CONSTANT) # prints nil
p defined?(RUBY_VERSION)       # prints "constant"
p defined?(1 + 1)               # prints "method"
```

You don't need to use parenthesis with `defined?` but they are recommended due to the low precedence of `defined?`.

For example, if you wish to check if an instance variable exists and that the instance variable is zero:

```
defined? @instance_variable && @instance_variable.zero?
```

This returns "expression" which is not what you want if the instance variable is not defined.

```
@instance_variable = 1
defined?(@instance_variable) && @instance_variable.zero?
```

Adding parentheses when checking if the instance variable is defined is a better check. This correctly returns nil when the instance variable is not defined and false when the instance variable is not zero.

Using the specific reflection methods such as `instance_variable_defined?` for instance variables or `const_defined?` for constants is less error prone than using `defined?`.

BEGIN and END

`BEGIN` defines a block that is run before any other code in the current file. It is typically used in one-liners with ruby `-e`. Similarly `END` defines a block that is run after any other code.

`BEGIN` must appear at top-level and `END` will issue a warning when you use it inside a method.

Here is an example:

```
BEGIN {  
  count = 0  
}
```

You must use { and } you may not use do and end.

Here is an example one-liner that adds numbers from standard input or any files in the argument list:

```
ruby -ne 'BEGIN { count = 0 }; END { puts count }; count += gets.to_i'
```