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Object-Oriented Programming, Part II

Ruby namespace

In Ruby, the term namespace refers to a module the contains a group of related objects. An example of a Ruby namespace is the Math module.

#To retrieve a constant from the Math
module, the scope resolution operator
(::), should be used.

```
puts Math::PI
# => 3.141592653589793
```

#In this example, Ruby is targetting the PI constant from the Math module using the scope resolution operator, (::), and printing its value to the console.

Ruby require Keyword

In Ruby, the require keyword is used to fetch a certain module which isn't yet presented in the interpreter. It is best practice to place this at the beginning of your code.

require 'date'

puts Date.today
=> 2020-04-16

Ruby Module

In Ruby, a *module* contains a set of methods, constants, or classes which can be accessed with the . operator similarly to classes . Unlike classes, it is impossible to create instances of a Ruby module.

#A Ruby module can be created using the module keyword followed by the module name written in CapitalizedCamelCase format finalized with an end.

```
module MyPizza

FAVE_TOPPING = "Buffalo Chicken"
ond
```

#In this example, myPizza is a module that holds a constant, FAVE_TOPPING, set equal to the string, Buffalo Chicken.



Ruby attr_accessor Method

In Ruby, $\,$ attr_accessor , used to make a variable both readable and writeable, is a shortcut to $\,$ attr_reader and $\,$ attr_writer .

```
class CollegeStudent
  attr_reader :dorm
  attr_accessor :major

  def initialize(dorm, major)
    @dorm = dorm
    @major = major
  end
end
```

#In this example, Ruby is able to only read the @dorm instance variable but both read and write the @major instance variable since it was passed to the attr_accessor method.

