

## The Spoken Tutorial Project

- Self-explanatory: uses simple language
- Audio-video: uses multisensory approach
- Small duration: has better retention
- Learner-centered: learn at your own pace
- Learning by doing: learn and practise simultaneously
- Empowerment: learn a new **FLOSS** (**F**ree/**L**ibre and **O**pen **S**ource **S**oftware)

## Target Group

- Computer Science Students
- Programmers
- Software Developers

## Workshops

The Spoken Tutorial Project Team conducts workshops on Ruby and other FLOSS using spoken tutorials and gives certificates to those who pass an online test.

For more details, please visit <https://spoken-tutorial.org>

## Forum

We have developed a beginner friendly Forum to answer specific questions pertaining to any part of a particular tutorial.

For more details, please visit <https://forums.spoken-tutorial.org>.

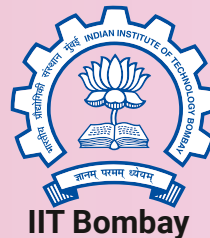
The Spoken Tutorial Project is funded by the National Mission on Education through Information and Communication Technology, Ministry of Human Resource Development, Government of India.

## Contact us

Email: [contact@spoken-tutorial.org](mailto:contact@spoken-tutorial.org)  
Website: <https://spoken-tutorial.org>

Forum help available to all learners

Content available in 22 Indian languages



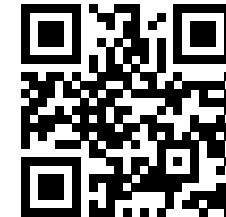
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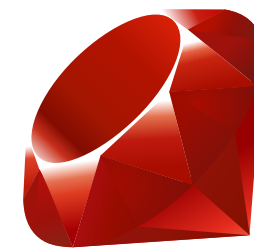


**Spoken Tutorial**

<https://spoken-tutorial.org>



Scan the QR code to visit Spoken Tutorial website



**Ruby**

National Mission on Education through Information and Communication Technology (NMEICT)

[www.sakshat.ac.in](http://www.sakshat.ac.in)

Funded by MHRD, Government of India.

## Introduction

- **Ruby** is an object-oriented scripting language designed by Yukihiro Matsumoto.
- It is a free and open source language.
- Ruby syntax is much easier to read and write.

## Ruby Installation

**Ruby** can be installed using the **Ubuntu Software Centre**.

**Other installation methods:**

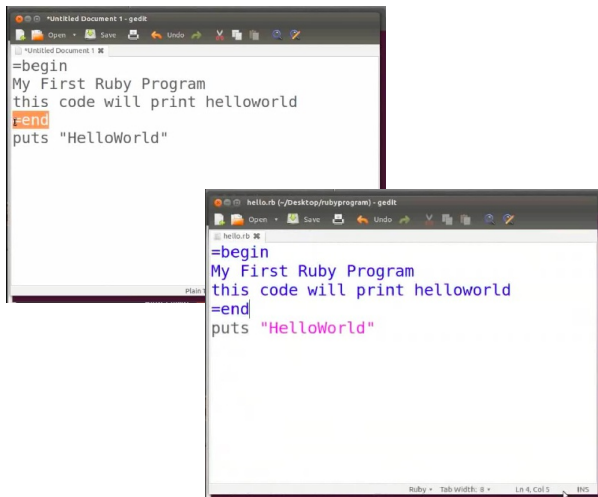
**rvm** (Ruby Version Manager)

<https://rvm.io/rvm/install>

**rbenv**

<http://rubysource.com/>

[up-and-running-with-rbenv](#)

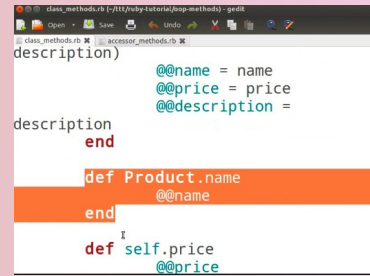


The top screenshot shows a text editor with the following code:

```
=begin
My First Ruby Program
this code will print helloworld
=end
puts "HelloWorld"
```

The bottom screenshot shows the same code being executed in a terminal window, resulting in the output:

```
My First Ruby Program
this code will print helloworld
HelloWorld
```



```
class_methods.rb (c:/r1/ruby-tutorial/04p-methods) - gedit
class_methods.rb
class_accessor_methods.rb
description)
  @@name = name
  @@price = price
  @@description =
description
end
def Product.name
  @@name
end
def self.price
  @@price
```

## Features

- Ruby works on Linux, Windows and Mac operating system
- Ruby is very easy to learn
- It is highly portable
- Ruby is a server-side scripting language similar to Python and PERL
- It can be used for developing Internet and intranet applications
- Ruby can be embedded into Hypertext Markup Language (HTML)
- It can be used to write Common Gateway Interface (CGI) scripts
- Ruby can easily be connected to DB2, MySQL, Oracle, and Sybase
- It supports automatic memory management
- RubyGems provides a standard format for distributing Ruby programs and libraries

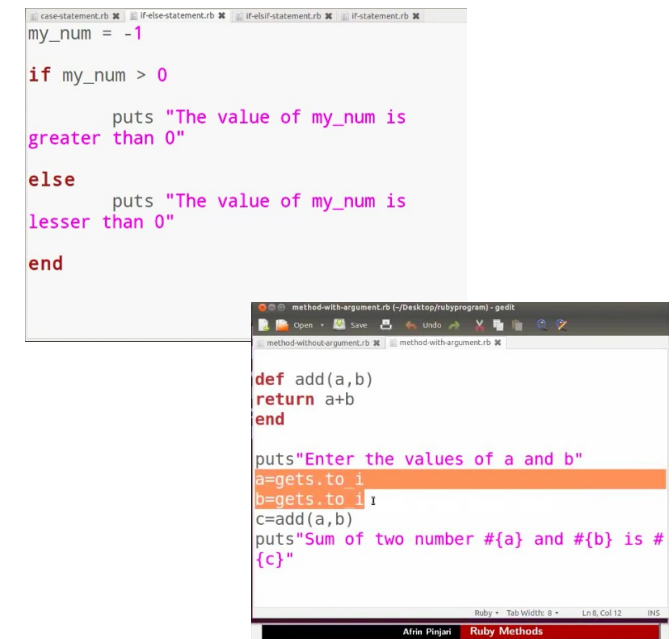
## Spoken Tutorials in Ruby Series

### Basic Level Tutorials

- Hello Ruby
- Variables in Ruby
- Ruby Methods
- Arithmetic and Relational Operators
- Logical and other Operators
- Control Statements

### Intermediate Level Tutorials

- for and each looping statements
- while and until looping statements
- Object Oriented concept in Ruby
- Object Oriented Programming Methods



The top screenshot shows a text editor with the following code:

```
my_num = -1

if my_num > 0
  puts "The value of my_num is
greater than 0"
else
  puts "The value of my_num is
lesser than 0"
end
```

The bottom screenshot shows a text editor with the following code:

```
def add(a,b)
return a+b
end

puts"Enter the values of a and b"
a=gets.to_i
b=gets.to_i
c=add(a,b)
puts"Sum of two number #{a} and #{b} is #
{c}"
```