

Hello Ruby

Talk to a Teacher

<http://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

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Learning Objectives



Learning Objectives

- **What is Ruby?**



Learning Objectives

- What is Ruby?
- Features



Learning Objectives

- What is Ruby?
- Features
- RubyGems and Help on Ruby



Learning Objectives

- What is Ruby?
- Features
- RubyGems and Help on Ruby
- **Installation**



Learning Objectives

- What is Ruby?
- Features
- RubyGems and Help on Ruby
- Installation
- Running Ruby code



Learning Objectives

- What is Ruby?
- Features
- RubyGems and Help on Ruby
- Installation
- Running Ruby code
- **Commenting**



Learning Objectives

- What is Ruby?
- Features
- RubyGems and Help on Ruby
- Installation
- Running Ruby code
- Commenting
- Difference between puts and print



System Requirement



System Requirement

- **Ubuntu Linux version 12.04**



System Requirement

- **Ubuntu Linux version 12.04**
- **Ruby 1.9.3**



Pre-requisites



Pre-requisites

- **Internet Connection**



Pre-requisites

- Internet Connection
- Knowledge of Terminal and Text editor



What is Ruby?



What is Ruby?

- Ruby is an object-oriented, interpreted scripting language



What is Ruby?

- Ruby is an object-oriented, interpreted scripting language
- **Dynamic, open source programming language**



What is Ruby?

- Ruby is an object-oriented, interpreted scripting language
- Dynamic, open source programming language
- **It has an elegant syntax**



What is Ruby?

- Ruby is an object-oriented, interpreted scripting language
- Dynamic, open source programming language
- It has an elegant syntax
 - **Natural to read**



What is Ruby?

- Ruby is an object-oriented, interpreted scripting language
- Dynamic, open source programming language
- It has an elegant syntax
 - Natural to read
 - **Easy to write**



Features



Features

- **Highly portable**



Features

- **Highly portable**
- **Runs in any operating system**



Features

- Highly portable
- Runs in any operating system
- **Variables have no datatype**



Features

- Highly portable
- Runs in any operating system
- Variables have no **datatype**
- **Automatic memory management**



Features

- Highly portable
- Runs in any operating system
- Variables have no **datatype**
- Automatic memory management
- **Free format language**



Features

- Highly portable
- Runs in any operating system
- Variables have no **datatype**
- Automatic memory management
- Free format language
- Used for developing Internet and Intra-net applications



RubyGems



RubyGems

- **A package manager for the Ruby programming language**



RubyGems

- A package manager for the Ruby programming language
- A standard format for distributing Ruby programs and libraries



RubyGems

- A package manager for the Ruby programming language
- A standard format for distributing Ruby programs and libraries
- **Create and publish your own gems**



RubyGems

- A package manager for the Ruby programming language
- A standard format for distributing Ruby programs and libraries
- Create and publish your own **gems**
- For more information on RubyGems visit <http://rubygems.org>



Help on Ruby

For more help on Ruby you can visit

- <http://www.ruby-forum.com>
- <http://rubyusergroups.org>
- <http://www.ruby-lang.org>
- <http://rubyforge.org>



Install Ruby



Install Ruby

- **Install Ruby using Ubuntu Software Centre**



Install Ruby

- Install Ruby using Ubuntu Software Centre
- For more information on Ubuntu Software Centre



Install Ruby

- Install Ruby using Ubuntu Software Centre
- For more information on Ubuntu Software Centre
- please refer to the Ubuntu Linux Tutorials on <http://spoken-tutorial.org>



Other Installation methods



Other Installation methods

- **rvm (Ruby Version Manager)**

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

- **rbenv**

[http://rubysource.com/
up-and-running-with-rbenv](http://rubysource.com/up-and-running-with-rbenv)



Running Ruby



Running Ruby

Ruby code can be executed in 3 ways



Running Ruby

Ruby code can be executed in 3 ways

- **Command line**



Running Ruby

Ruby code can be executed in 3 ways

- Command line
- **Interactive Ruby**



Running Ruby

Ruby code can be executed in 3 ways

- Command line
- Interactive Ruby
- **As a file**



Interactive Ruby



Interactive Ruby

- **Allows the execution of Ruby commands with immediate response**



Interactive Ruby

- Allows the execution of Ruby commands with immediate response
- **Run Ruby statements**



Interactive Ruby

- Allows the execution of Ruby commands with immediate response
- Run Ruby statements
- **Examine the output and return values**



Interactive Ruby

- Allows the execution of Ruby commands with immediate response
- Run Ruby statements
- Examine the output and return values
- For older version of Ruby, install **irb** separately



Summary



Summary

- About Ruby
- Installation
- Execution of Ruby code
- Adding multiple comments

`=begin`

`.....`

`=end`

- Difference between `puts` and `print`



Assignment



Assignment

- Write a program to print your name and age



Assignment

- Write a program to print your name and age
- We used multiple line comments in this tutorial



Assignment

- Write a program to print your name and age
- We used multiple line comments in this tutorial
- Try to give single line comment
Hint

.....



About the Spoken Tutorial Project

- Watch the video available at http://spoken-tutorial.org/What_is_a_Spoken_Tutorial
- It summarises the Spoken Tutorial project



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Spoken Tutorial Workshops

The Spoken Tutorial Project Team

- Conducts workshops using spoken tutorials
- Gives certificates to those who pass an online test
- For more details, please write to contact@spoken-tutorial.org



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- More information on this Mission is available at <http://spoken-tutorial.org/NMEICT-Intro>

