

EnvToolsLibsFrmwrks

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RUBY ENVIRONMENTS, TOOLS, LIBRARIES, FRAMEWORKS, AND DOCUMENTATION

Ruby Environment:

Ruby can run directly on Microsoft Windows, Mac OS X, and multiple versions of UNIX and Linux.^[2] Ruby also facilitates the development and execution of web applications using the Ruby on Rails framework. It also runs within different virtual machines environment such as JRuby, a Java-based Ruby environment. Ruby scripts can be developed and run on any Java-supported platform using this environment.^[5] IronRuby, on the other hand is another virtual machine developed by Microsoft, can support the development and implementation of Ruby scripts that relates with Microsoft .NET Framework.

YARV (Yet another Ruby VM), designed to replace the existing Ruby interpreters and address the issue in speed.^[8] YARV is currently being integrated into Ruby and will serve as the official Ruby interpreter.

Tools and Libraries for Ruby:

RubyGems is a package utility for Ruby.^[2] It allows you to install and download the Ruby software packages easily and keeps them up-to-date. RubyGems manages, installs, and distributes gems. RubyGems can perform the following actions:

Usage Syntax: \$ gem command *arguments...+ *options...+

build - builds a gem (self-contained programs and libraries) from a gemspec (information about a gem).

check - It checks gems that are installed.

^[2] environment - It displays the information about the RubyGems environment.

update - updates the named gem or installed gems in the local repository.

^[7] Specification - It displays the specification of gems.

rdoc - create a documentation of installed gems.

Another useful tool is Ruby Debugger is a tool that deals with bugs. Here are some commands used:

Usage Syntax:^[0] \$ ruby -r debug filename*, ...+ b[reak] [file | class :]^[0] line | method

^[0] Sets breakpoint to some position. Breakpoint is a place where you want to pause program execution for debugging purpose.

wat[ch] expression - sets watch points.

cat[ch] (exception|off) - sets catch point to an exception.

c[ont] - continues execution. everything else - evaluates.

Interactive Ruby also called as irb can be used to experience Ruby programming language.

^[3] Ruby Profiler is a tool that optimizes your code by and is done by examining resource usage .

Ruby Frameworks:

One popular framework used in Ruby is Ruby on Rails, a web-application framework. It uses a Model-View-Controller (MVC) pattern which includes the needed components to create web applications which are backed up by a database. Below are the three (3) layers:

(1) The View Layer is a template that provides representations of the application's resources. HTML with integrated Ruby code (.erb files) is the common view templates used.

(2) The Model Layer includes the business logic that is particular to the application and represents the domain i.e. Person, Product, Account. Active Record Base is the root of the model classes (backed up by database) which delivers the data from database rows as objects. Objects are designed with business logic method. *

(3) Incoming HTTP requests is handled by the Controller Layer and provides suitable response. XML, JSON, PDF, and views specifically for mobile are generated by Rails controller. In order to generate the appropriate response, model and render view templates are influence by controllers.