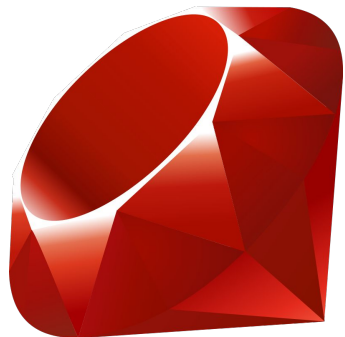


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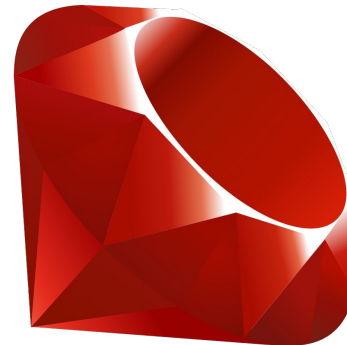


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Ruby

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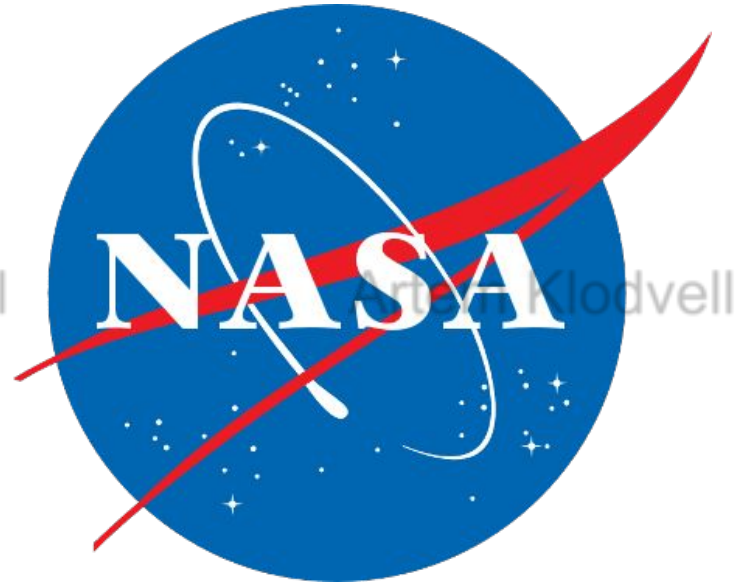
Artem Degtiarev

General info & some history

Ruby is an interpreted, high-level, general-purpose programming language. It was designed and developed in the mid-1990s by Yukihiro Matsumoto in Japan.

Since its public release in 1995, Ruby has drawn devoted coders worldwide. Ruby is ranked among the top 10 of the most popular programming languages worldwide.

Ruby is used by programmers in many areas. So, various programs were written in this language. It is used in web programming and for developing applications by large companies such as Motorola or NASA.



Syntax

In Ruby, everything is an object. Object-oriented programming calls properties by the name *instance variables* and actions are known as *methods*. Ruby's pure object-oriented approach is most commonly demonstrated by a bit of code which applies an action to a number.

```
5.times { print "We *love* Ruby!" }
```

The syntax of Ruby also is similar Perl's and Python's ones. Class and method definitions are signaled by keywords, code blocks can be defined by keywords or braces. One of the differences from Python and Perl is that Ruby keeps all of its instance variables completely private to the class and only exposes them through accessor methods (`attr_writer`, `attr_reader`, etc.).

Features



Ruby provides significant opportunities for programmers. In addition to the simple syntax, the following can also be noted:

- exception handling, as in Java and Python;
- predefined operators;
- automatic garbage collection;
- support for various platforms;
- dynamic loading of extensions, etc.

What is written on Ruby?

On Ruby is created a bug tracking system called Redmine. Also, it was used to create a program that deals with editing vector graphics - Inkscape. A system that deals with information security research, Metasploit, was rewritten in Ruby.

In 2004, Ruby on Rails was released. After that, programmers began to use it more often. So, the following projects were developed on this platform:

- Twitter
- Github
- Kickstarter
- Diaspora



Some examples

Some basic Ruby code:

```
# Everything, including a  
literal, is an object, so this  
works:  
-199.abs  
# => 199  
'ice is nice'.length  
# => 11  
'ruby is cool.'.index('u')  
# => 1  
"Nice Day Isn't  
It?".downcase.split('').uniq.so  
rt.join  
# => " '?acdeinsty"
```

Classic Hello world example:

```
puts 'Hello World!'
```

An example of input:

```
print 'Please type name >'  
name = gets.chomp  
puts "Hello #{name}."
```