

Object Oriented Programming Methods

Talk to a Teacher

<http://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

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14 August 2014



Learning Objectives

In this tutorial we will learn to use



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- **instance methods**



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- **accessor methods**



System Requirements

Here we are using



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- **Ubuntu Linux version 12.04**



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Here we are using

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



Prerequisites

To follow this tutorial, you must have



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- **A working Internet connection**



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- Knowledge of Linux commands, Terminal and Text-editor



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- If not, for relevant tutorials, please visit <http://spoken-tutorial.org>



What are instance methods?

- **Instance methods** are those methods that are available to all instances of the class.



What are instance methods?

- **Instance methods** are those methods that are available to all instances of the class.
- **Earlier, we had studied how to create objects or instances of a class.**



What are class methods?

Class methods



What are class methods?

Class methods

- are methods available only to the class.



What are class methods?

Class methods

- are methods available only to the class.
- are not available to instances of the class.



What are class methods?

Class methods

- are methods available only to the class.
- are not available to instances of the class.
- **There are different ways you can define class methods.**



What are accessor methods?

- **Ruby uses accessor methods to access data defined within classes.**



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- **Accessor methods comprise of setter methods and getter methods.**



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- **Setter methods set the values while Getter methods get those values.**



What are accessor methods?

- Ruby uses accessor methods to access data defined within classes.
- Accessor methods comprise of setter methods and getter methods.
- Setter methods set the values while Getter methods get those values.
- Ruby uses the keyword **attr_accessor** to declare these methods.



Accessor Methods

- **Note:** accessor methods are, by default, instance methods.



Accessor Methods

- Note: **accessor methods** are, by default, **instance methods**.
- They can be accessed by different instances of the class **Product**.



Summary

In this tutorial we have learnt about:

- **instance methods**
- **class methods**
- **accessor methods**



Assignment

As an assignment

- Define a class **Temperature**



Assignment

As an assignment

- Define a class **Temperature**
- Write an instance method using Ruby's accessor method syntax.



Assignment

As an assignment

- Define a class **Temperature**
- Write an instance method using Ruby's accessor method syntax.
- **This method should calculate the Celsius given the temperature in Fahrenheit.**



About the Spoken Tutorial Project

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- Conducts workshops using spoken tutorials
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- For more details, please write to contact@spoken-tutorial.org



Acknowledgements

- Spoken Tutorial Project is a part of the Talk to a Teacher project
- It is supported by the National Mission on Education through ICT, MHRD, Government of India
- More information on this Mission is available at <http://spoken-tutorial.org/NMEICT-Intro>

