

# 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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In this tutorial we will learn to use

- **instance methods**



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- **accessor methods**



# System Requirements

Here we are using



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Here we are using

- **Ubuntu Linux version 12.04**



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- Ubuntu Linux version 12.04
- Ruby 1.9.3





# Prerequisites

**To follow this tutorial, you must have**



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To follow this tutorial, you must have

- **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.



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- **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



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- are not available to instances of the class.



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## 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?

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- 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

- Watch the video available at [http://spoken-tutorial.org/What\\_is\\_a\\_Spoken\\_Tutorial](http://spoken-tutorial.org/What_is_a_Spoken_Tutorial)
- It summarises the Spoken Tutorial project



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- It summarises the Spoken Tutorial project
- If you do not have good bandwidth, you can download and watch it



# 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](mailto: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>

