

# Ruby Lang Scavenger Hunt

July 22, 2014

# Scavenger Hunt

## Goals

Accelerate your understanding of ruby through practice and documentation usage.

You are allowed to use any previous code you've written and rdoc.

# Scavenger Hunt

## The Hunt

**Task:** Find the official ruby implementation of **Vector**. Create a class that inherits **Vector** and implements a *distance* instance method that calculates the total distance (path length) between 2 points.

# Scavenger Hunt

**Task:** With your class from the previous task, implement a *pathlength* **class method** that calculates the total path length for  $n$  points.

# Scavenger Hunt

## The Hunt

**Task:** Determine whether or not if an expression **Vector** + **Integer** is valid. Write a test that demonstrates the expected behavior of adding an integer to a vector.

# Scavenger Hunt

## The Hunt

**Task:** Determine whether or not if an expression

**Vector**  $\ll$  *Integer* is valid. Write a test that demonstrates the expected behavior of inserting an integer to a vector. Implement the  $\ll$  operator to allow for the insertion of an integer into an existing vector.

# Scavenger Hunt

## The Hunt

### Task:

1. Write a test that demonstrates the intended behavior of a **class method** that calculates the angle between two 2 – *Vectors* in radians.
2. Write a test that demonstrates the intended behavior of a **instance method** that calculates the angle between two 2 – *Vectors* in radians.
3. Implement both methods on your **Vector** subclass.

# Scavenger Hunt

## The Hunt

### Task

1. Write a test that demonstrates the expected behavior of an instance method *factors* in the **Integer** class that returns the factors of a number.
2. Implement this method by opening the **Integer** class.