# Reading and Writing Data with Ruby

### WORKING WITH FILES

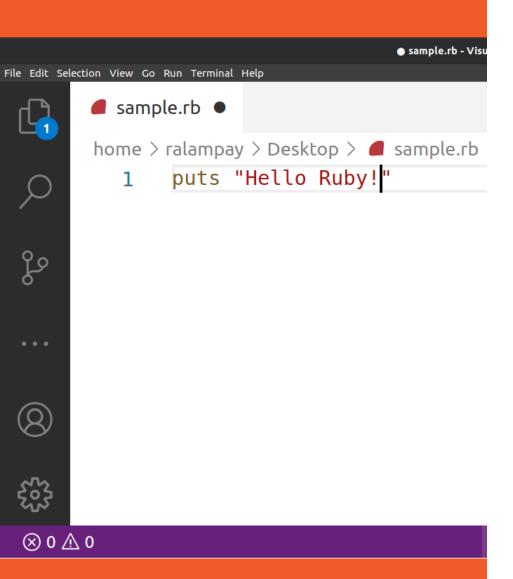


Raphael Alampay
DEVELOPER

@happyalampay github.com/ralampay

# Development Setup

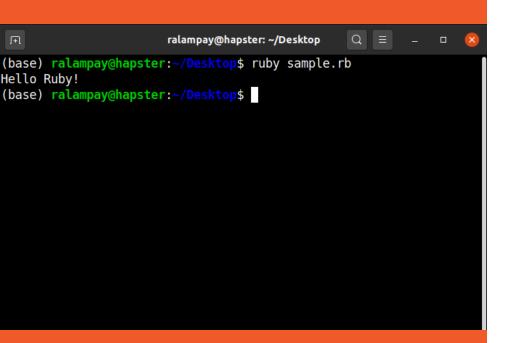
Our tools of the trade



#### Text Editor to Write Code In

#### **Recommended Editors**

- Visual Studio Code
- Atom Text Editor
- Sublime Text Editor



Terminal to run Ruby scripts

Files should be in the same directory

# The Main Program

A single file to run our examples

#### main.rb

```
require 'csv'
require 'json'
require 'net/http'
puts "Hello Ruby!"
```

# Reading a File

## Reading a File (Verbose)

### Location of File

Use a variable to represent the path or location of a file

### Opening a File

Invoke the File.open() method which returns a reference to the file

### **Extract Contents**

Returns the contents of a file as a string to be stored in a variable

```
file_location = "sample.txt"
file = File.open(file_location)
content = file.read
puts content
```

- **◄** Variable representing the file location
- **◆** Open the file and return a reference
- **◄** Extract contents of file
- Display content

```
file_location = "sample.txt"
content = File.read(file_location)
puts content
```

## Reading a File (Short and Sweet)

A one-liner to extract contents of a file

### Demo



Read a file from a location

Print out contents of the file

# Writing to a File

### Approaches to Writing to a File

Replace

Completely overwrites a file

**Append** 

Adds content to a file

### Methods for Performing a Write

#### Default

Overwrite a file completely with the write() method

### Pass Mode Value

Pass the mode symbol with value 'a' to perform an append

### **Code Block**

Pass an anonymous function with File.open() method

```
file_location = sample.txt"
new_content = "R by is awesome!
File.write(file_location, new_content)
```

# Writing to a File (Default)

Performs an overwrite to the file or creates the file if it doesn't exist

```
file_location = "sample.txt"
new_content = "Ruby is awesome!"
File.write(file_location, new_content, mode: 'a')
```

## Writing to a File (Pass Mode Value)

Appends content to the existing file

```
file_location = "sample.tx"
new_content = "Ruby is awe ome!"
File.open(file_location, "a") do |file|
  file.write(new_content)
end
```

# Writing to a File (Code Block)

Open a file and pass an anonymous function to write to the file reference

### Demo



Write a file using the default approach

Perform an append

Append more content using a code block