# Welcome

#### Welcome

Welcome to Learn Verified

# **Intro to Ruby Development**

### **Intro to Programming**

Intro to Tic Tac Toe
MINSWAN- Yukihuro Matsumoto
What is a Program?
Hello World
Welcome to Tic Tac Toe

# **Debugging**

Intro to IRB Reading Error Messages

### **Variables**

About Variable Assignment
Variable Assignment Lab
Ruby Data Types
Array Basics
Tic Tac Toe Board

### **Methods**

Intro to Methods
String Interpolation
Puts and Return
Display Tic Tac Toe Board Example
Methods and Arguments
TDD, Rspec, and Learn
Default Arguments
Say Hello
Interpolation Super Power
Display Tic Tac Toe Board

# **Command Line Applications**

Intro to CLI Applications CLI Applications in Ruby gets CLI Input

# **Logic and Conditions**

Truthiness
Booleans
About Ruby Conditionals
Rspec Fizzbuzz
Tic Tac Toe Position Taken
Valid Tic Tac Toe Move

### Loops

Intro to Loops
Loops
While and Until Loops
While and Until Loops Lab
Tic Tac Toe Turn
Tic Tac Toe Play Loop

#### Iteration

<u>Iteration and Abstraction</u> <u>Intro to Ruby Iterators</u> <u>Tic Tac Toe Current Player</u>

# **Ruby Tic Tac Toe**

Nested Arrays
Boolean Enumerables
Search Enumerables
Tic Tac Toe Game Status
Tic Tac Toe in Ruby

#### Intro to OO

**Intro to Object Orientation** 

### **Classes and Instances**

<u>Classes and Instances</u> <u>Classes and Instances Lab</u>

### **Instance Methods**

<u>Instance Methods</u> <u>Instance Methods Lab</u>

### **Object Properties**

Instance Variables
Object Attributes Readme
Object Attributes Lab

# **Object Lifecycles**

Object Initialization
Object Initialize Lab

# **Object Models**

**OO Barking Dog** 

#### OO Tic Tac Toe

<u>Procedural vs Object Oriented Ruby</u> OO Tic Tac Toe

# Git and GitHub

#### Git

Intro to Version Control
Git Repository Basics
Git Repository Basics Quiz

#### **Github Remotes**

Git Remotes and Github
Git Remotes and Github Codealong
Git Forks and Clones

# Collaboration

Git Collaboration
Git Collaboration Quiz
Github Pull Requests
Git Basics Quiz

# **HTML and CSS**

# **Web Fundamentals**

#### **HTML Fundamentals**

**HTML Fundamentals** 

Setting Up a New Site

**Document Structure** 

**Text Formatting** 

**HTML Lists** 

**HTML Tables** 

**HTML Images** 

**HTML Links** 

**HTML Backing Up Changes** 

**HTML** Validation

HTML Fundamentals Quiz

**Dev Tools Super Power** 

HTML Album Cover

HTML Rivadh Blog

HTML Issue Bot 9000

## **Site Publishing**

Site Publishing to FTP

Site Publishing to Github Pages

#### HTML5

HTML Forms and iFrames

HTML Map Contact Form Code Along

HTML5 Media

HTML5 Video Embed Codealong

**HTML5 Semantic Elements** 

**HTML5 Semantic Elements Code Along** 

HTML5 Quiz

#### **CSS**

**CSS Fundamentals** 

**CSS Styling Code-Along** 

**CSS** Fundamentals Quiz

My Little Rainbow

**CSS Kitten Wheelbarrow** 

**CSS** Graffiti Override

CSS Issue Bot 9000

**Deploy Your Profile Page** 

### **Page Layout**

**Box Model** 

**Layout Types** 

<u>Overflow</u>

Fluid Height

**Display** 

**Float** 

Clearfix

**Centering** 

**Column Structure** 

**Positioning** 

**Z** Index

**Codealong Creating Columns** 

**CSS Layout Quiz** 

**Zetsv** 

**ZHW Shoes Layout** 

### **Box Styles**

**Box Style Codealong** 

## **Responsive Layout**

**Building Responsive Sites** 

**Media Oueries** 

Responsive Media

Responsive Type

**Responsive Lavout** 

<u>Viewport</u>

Responsive Layout Quiz

Adding Responsive Features Codealong

**Animal Save** 

### **Bootstrap Framework**

Introduction to Bootstrap

**Bootstrap Codealong** 

**Bootstrap Grid System** 

Layout Grids Codealong

**Bootstrap Navbar Codealong** 

**Bootstrap JS Plugins** 

**Bootstrap Image Carousel Codealong** 

# **Procedural Ruby**

#### Variables and Methods

**About Variable Assignment** 

Variable Assignment Lab

**String Interpolation** 

**Defining Methods** 

**Methods and Arguments** 

Methods and Arguments Lab

**Methods and Default Arguments** 

Methods and Default Arguments Lab

**Return Values** 

Return Values Lab

**Debugging with Pry** 

Method Scope

Method Scope Lab

#### **Booleans**

**Booleans and Truthiness in Ruby** 

**Boolean Operators** 

**Truthiness Code Challenge** 

# **Logic and Conditionals**

**If Statements** 

If Statements Lab

**Ternary Operators and Statement Modifiers** 

If Statements Quiz

**Case Statements** 

Case Statements Quiz

Logic and Conditionals Quiz

## Looping

Intro to Loops

Looping

**Looping Lab** 

Times

**Looping Quiz** 

While and Until Loops

While and Until Loops Lab

Countdown to Midnight Lab

### **Arrays**

**Intro to Arrays** 

**Using Arrays** 

**Using Arrays Lab** 

**Arrays and Methods** 

Arrays and Methods Lab

#### **Iteration**

**Iteration and Abstraction** 

**Intro to Ruby Iterators** 

Square Array Lab

Badges and Schedules Lab

**Deli Counter Lab** 

Oxford Comma Lab

**Collect and Return Values** 

Reverse Each Word Lab

**Yield and Blocks** 

Each Lab

**Return from Yield Statements** 

Collect Lab

**Boolean Enumerators** 

**Search Enumerators** 

Mv All? Lab

My Find Lab

Cartoon Collections Lab

**Enumerators Code Challenge** 

Prime? Lab

**Sorting** 

**Sorting Lab** 

#### Hashes

**Introduction to Hashes** 

**Using Hashes** 

**Symbols** 

Hash Iteration with Each

**Hash Iteration with Collect** 

Hash Iteration Lab

#### **Data Structures**

Intro to Nested Hashes

**Building Nested Hashes** 

**Building Nested Hashes Lab** 

**Nested Hashes Lab** 

Multitype Collections Lab

**Nested Hash Iteration** 

**Iterating over Nested Hashes Codealong** 

Other Hashes Codealong

Hashes Manipulation Lab

### Regex

What's a Pattern

Regex Basics

**Ruby Methods with Regex** 

Regex Lab

# **Object Oriented Ruby**

**Intro to Object Orientation** 

#### **Classes and Instances**

Intro to Classes and Instances Classes and Instances Lab

#### **Instance Methods**

<u>Instance Methods</u> <u>Instance Methods Lab</u>

# **Object Properties**

Instance Variables
Object Attributes
Object Attributes Lab
Object Accessors
Meowing Cat
Video Review: Object Properties

## **Object Lifecycle**

Object Initialization
Object Initialization Lab
OO Basics
OO Basics with Class Constants
OO School Domain

### **Object Orientation Review**

Intro to Object Orientation - Ruby

# **Object's Self**

Self
OO Counting Sentences

#### **Class Variables and Methods**

<u>Class Variables and Methods</u> <u>Class Variables and Methods Lab</u> <u>Private Methods</u>

# **Object Models**

Remembering Objects
Puppy Lab
Advanced Class Methods
Advanced Class Methods Lab
Video Review: Object Models

# **Object Labs**

OO Email Parser
OO Anagram Detector
OO Cash Register

# **Object Relationships**

Intro to Object Relationships
Belongs to Object Lab
Has Many Object
Has Many Object Lab
Collaborating Objects
Collaborating Objects Lab
Collaborating Objects Review
OO My Pets
OO Kickstarter
OO Banking
Has Many Objects Through
Has Many Objects Through Lab

# **Object Architecture**

Intro to Inheritance
Intro to Inheritance Lab
Intro to Modules
Intro to Modules Lab
Super
Super Lab

# Metaprogramming

Mass Assignment
Mass Assignment and Metaprogramming
Mass Assignment Lab
Custom Errors
OO Triangle

# **Scraping**

Gems and Bundler Scraping Scraping Lab

### **Video Reviews of OO Ruby**

OO Ruby Object Orientation Video Review

### **Final Projects**

Music Library CLI

Video Review: Music Library CLI

Tic-Tac-Toe with AI

**Student Scraper** 

**CLI Data Gem Project** 

CLI Data Gem Walkthrough

CLI Data Gem Walkthrough: Creating a CLI Scraper Gem

Common Anti-Patterns in CLI Data Gem

Student Example 1: Refactoring CLI Gem

Student Example 2: Refactoring CLI Gem

# **SQL** (Structured Query Language)

## **Topic Introduction**

What is SQL

### **Getting Started**

**SQL** Intro and Installation

**SQL Database Basics** 

**SQL** Databases and Text Editors

**SQL Data Types** 

SQL Inserting, Updating, and Selecting

**Basic SQL Queries** 

**SQL** Aggregate Functions

**SQL** Aggregate Functions Lab

**SQL** Bear Organizer Lab

### **Table Relations**

**Edgar Codd and Table Relations** 

**Table Relations** 

**SOL JOINS** 

**SQL Complex Joins** 

**SOL** Join Tables

**Grouping and Sorting Data** 

**SOL Joins Review Lectures** 

**SOL Crowdfunding Lab** 

**SOL Library Lab** 

# **ORMs and ActiveRecord**

#### **ORMs**

Why an ORM is Useful

Pokemon Scraper Lab

Mapping Ruby Classes to Database Tables

Mapping Classes to Tables Lab

Mapping Database Tables to Ruby Objects

Mapping Database Rows to Objects Lab

**Updating Records in an ORM** 

**Updating Records in an ORM Lab** 

**Preventing Record Duplication** 

ORMs Lab: Bringing It All Together

**Dynamic ORMs** 

Dynamic ORMs with Inheritance

**Dynamic ORM Lab** 

Video Review: ORMs and SQL Joins

<u>Video Review: Building a Metaprogrammed Abstract ORM</u> Video Review: Codealong- Building a Room Scraper and ORM

#### ActiveRecord

**ActiveRecord Mechanics** 

Translating from ORM to ActiveRecord

Intro to Rake

Mechanics of Migrations

Writing Our Own Migrations

ActiveRecord CRUD Lab

Migrations and Active Record Lab

Advanced Finding Lab

### **Associations**

**ActiveRecord Associations** 

**ActiveRecord Associations Lab** 

ActiveRecord Associations Lab II

ActiveRecord Associations Video Review

ActiveRecord Associations Video Review II

Video Review: Aliasing ActiveRecord Associations

Video Review: Blog CLI with ActiveRecord and Associations

# Rack

#### **Rack and the Internet**

<u>How the Internet Works</u> <u>Increasing Lavers of Abstraction</u>

**Inspecting the Web with Rack** 

**Dynamic Web Apps with Rack** 

Rack Responses Lab

The HTTP Request

Rack Routes and GET Params Lab

**Dynamic URL Routes** 

**HTTP Status Codes** 

**Dynamic URLs and Status Codes Lab** 

<u>Video Review: How The Web Works, Pt 1</u>

Video Review: How the Web Works, Pt 2

# Sinatra

#### **Sinatra Basics**

What is Sinatra?

Sinatra from Scratch

Sinatra Basics

Using the Shotgun Development Server

Sinatra "Hello World" Lab

Sinatra Routes

Sinatra Basic Routes Lab

#### **MVC** and Forms

Intro to MVC

Sinatra MVC File Structure

Sinatra Views

Sinatra Basic Views Lab

Using ERB

Sinatra Views Lab II

Video Review: Forms

#### **Forms**

Intro to Capybara Tests

**Dynamic Routes** 

**Dynamic Routes Lab** 

**HTML Forms and Params** 

Passing Data Between Views and Controllers

Basic Sinatra Forms Lab

Lavouts and Yield

**Integrating Models for a Full MVC** 

Sinatra MVC Lab

Sinatra Basic Forms Lab

Sinatra Nested Forms

Sinatra Nested Forms Lab: Pirates!

Lab Review-- Sinatra Nested Forms Lab: Pirates

Sinatra Nested Forms Lab: Superheros!

### Sessions

Sessions and Cookies
Mechanics of Sessions
Sinatra Sessions Lab
Sinatra Sessions Codealong

#### ActiveRecord

ActiveRecord Setup in Sinatra

ActiveRecord in Sinatra

Sinatra ActiveRecord CRUD

User Authentication in Sinatra

Sinatra Sessions Lab- User Logins

Securing Passwords in Sinatra

Secure Password Lab

Video Review: Authentication

Sinatra RESTful Routes

Sinatra RESTful Routes Lab

Using Tux in Sinatra with ActiveRecord

ActiveRecord Associations in Sinatra

ActiveRecord Associations: Join Tables

Sinatra Multiple Controllers

Sinatra Complex Forms Associations

Sinatra Playlister

Sinatra NYC

### **ERB Outside of Sinatra**

<u>Video Review: Building a Site Generator, Part 1</u> <u>Video Review: Building a Site Generator, Part 2</u>

## Sinatra Project Mode

**Fwitter** 

Sinatra Portfolio Project

# **Rails**

#### **Introduction to Rails**

Intro to Rails

**Rails Application Basics** 

Rails MVC

Rails Static Request

Rails Hello World

Video Review: Intro to Rails

### **Rails Models Basics**

#### **Intro to REST**

Intro to Rest
RESTful Action Index Lab
Rails Dynamic Request
Rails Dynamic Request Lab

#### Intro to ActionView

Rails URL Helpers
Rails URL Helpers Lab
Rails form tag
Rails form tag lab

#### **CRUD** with Rails

Create Action
Create Action Lab
Index, Show, New, Create Lab
Edit/Update Action
form for on Edit
Strong Params Basics
Rails Forms Overview
form for lab
Rails Generators
CRU Rails Lab
Resource Generator/ Routes
Rails Blog Scaffold

### Validations and Forms

ActiveRecord Validations
ActiveRecord Validations Lab
Validations in Controller Actions
Validations in Controller Actions Lab
Validations with form tag
Validations with form tag lab
Validations with form for
Delete forms
Rails Testing
CRUD with Validations
Rails Blog Associations and Validations

Rails Review: TodoMVC 1

TodoMVC 1: Assets and Managing Lists

#### **Associations and Rails**

**Activerecord Associations Review** 

Join The Fun Rails Lab

Flatiron Bnb Associations Lab

ActiveRecord Lifecycle Methods

Flatiron Bnb Methods Lab

**Displaying Associations Data** 

**Displaying Associations Data Lab** 

Forms and Basic Association

Forms and Basic Associations Lab

**Basic Nested Forms** 

**Basic Nested Forms Lab** 

Displaying Has Many Through

Displaying Has Many Through Lab

Has Many Through in Forms

Has Many Through in Forms Lab

Video Review: Has Many Through in Forms Lab

Video Review: Deep Dive into Nested Forms

Rails Blog: Complex Nested Forms Lab

# **Layouts and Partials**

**Layouts And Templates in Rails** 

**Layouts And Templates in Rails Lab** 

**Simple Partials** 

Simple Partials Lab

Partial with Locals

Partial with Locals Lab

Flatiron Kitchen

**Rendering Collections** 

Rendering Collections Lab

Programmer Partials Lab

Video Review: Partials and Collections

### **Refactoring with Helpers and Model Methods**

Refresher On MVC

**Refactoring Views With Helpers** 

Refactoring Views With Helpers Lab

Model Class Methods

Model Class Methods Lab

Video Review: Refactoring Views into Partials and Helpers

### **Routes and Resources**

Routing and Nested Resources

Routing and Nested Resources Lab

**Modifying Nested Resources** 

**Modifying Nested Resources Lab** 

Namespaced Routes

Namespaced Routes Lab
Rails Pollywog Ranch Lab

Rails Review: TodoMVC 2

**TodoMVC 2: Lists have Items** 

TodoMVC 3: Mark Items Complete

**TodoMVC 4: Refactoring with Partials and Helpers** 

**TodoMVC 5: Deleting Items** 

#### Authentication

**Cookies And Sessions** 

Cookies And Sessions Lab

Login Required

Login Required Lab

**Sessions Controller** 

Sessions Controller Lab

Using has secure Password

Using has secure Password Lab

Video Review: Authentication

Omniauth

Omniauth Review Lecture in TodoMVC

**Omniauth Lab** 

**Authentication And Authorization With Gems** 

Devise

**Devise Lab** 

Cancan

Cancan Lab

Video Review: Building Authorization and Metaprogramming

Devise Roles

Devise Roles Lab

Video Review: Devise Roles Lab

**Devise and Pundit** 

**Devise and Pundit Lab** 

Rails Amusement Park Lab

### **Rails Project Mode**

Flatiron Store Project

Video Review: Flatiron Store Review

Rails Portfolio Project

# **Javascript Foundations**

### **Javascript Basics**

JavaScript Basics

**JavaScript Comments** 

JavaScript Data Types

JavaScript Data Types Quiz JavaScript Logging JavaScript Logging Lab

# **Functions and Scope**

JavaScript Variable Assignment and Declaration

JavaScript Strings Lab

**Intro to Functions** 

JavaScript Flow Control

Intro to Functions Lab

**Functions Lab** 

**Variables** 

JavaScript Arithmetic Lab

JavaScript Scope

Fix the Scope Lab

**Arrow Functions** 

**Hoisting** 

Functions and Variables Quiz

#### **Data Structures**

JavaScript Arrays

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Javascript Objects

Javascript Objects Lab

Javascript Objects And Arrays Quiz

Javascript Intro To Looping

Beatles Loops Lab

Deli Counter

Online Shopping Lab

### Loops

Javascript Callbacks

Array.forEach

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**Exiting Loops** 

**Exiting Loops Lab** 

Traversing Nested Objects

#### The DOM

Intro To The DOM

The DOM

The DOM is a Tree

Hide And Seek Lab

**Creating And Inserting Nodes** 

**Listening To Nodes** 

Konami Code Lab

# **jQuery**

Modifying HTML with jQuery
Modifying HTML with jQuery Lab
Document Ready
jQuery Selectors Lab
jQuery Event Listeners Lab
Moving Things With Javascript

# **Advanced Javascript**

# **Higher-Order Functions**

First Class Functions
First Class Functions Lab
Closures
Closures Lab
Custom forEach()
Map
Map Lab
Reduce
Reduce Lab
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#### **HTML and CSS**

Reintroduction to the DOM
DOM Quiz
Introduction to CSS
CSS Quiz
Introduction to Bassess
HTML and CSS Lab

### **Templates**

Javascript Hand Written Templates
Lodash Templates
Lodash Templates Lab
Handlebars Templates
Handlebars Templates Lab

# **Object-Oriented JavaScript**

Creating Objects
Creating Objects Lab
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this Code-Along
Fix this Lab
Inheritance Patterns

Inheritance Patterns Lab
Object Methods and Classes
Object Methods Lab
Space Invaders Lab

## **Accessing Remote APIs with JavaScript**

**XHR** 

GitHub API With XHR Lab

**Turning API Responses Into Views** 

jQuery Ajax and Callbacks

Reading from the GitHub API with iQuery AJAX Lab

**REST** 

**REST Quiz** 

Javascript Fetch

Javascript Fetch Lab

### **Testing**

Why Test

Introduction to Mocha

**Introduction to Debugging** 

JavaScript Spies

JavaScript Mocks and Stubs

# **Rails and Javascript**

# **Asset Pipeline**

What Is The Asset Pipeline

**Javascript Manifests** 

Javascript Manifests Lab

Page Specific Javascript

**External Javascript Libraries** 

**CSS Manifests** 

**CSS Manifests Lab** 

External CSS Frameworks In Rails

**Asset Preprocessors In Rails** 

**Images And The Asset Pipeline** 

**Bootstrap and the Asset Pipeline** 

Your Own JS And CSS In Rails

**Bootstrap Example Rails Lab** 

### **Popular Gems**

**How To Find Gems** 

<u>Paperclip</u>

Paperclip Lab

**Kaminari** 

Kaminari Lab

#### Workers

Long Running Tasks in Rails
Long Running Tasks in Rails Lab
Sidekiq
Sidekiq Lab

### **Consuming APIs**

What Is An API?
APIs And Postman
Hitting APIs with Faraday
Basic APIs Lab
Using OAuth With APIs
Posting to APIs
Working with APIs
Web Service Objects
Refactoring APIs Lab

# **Using AJAX and Rails**

Video Review: Loading Comments via GET AJAX Video Review: Rails and AJAX, Submitting a Form Video Review: Adding Form Fields via AJAX Video Review: Handlebars and JS Prototypes

### **Building APIs**

Why Build an API?
Returning String Data
Returning Strings Lab
DIY JSON Serializer
DIY JSON Serializer Lab
Using to json
Using to json Lab
Using Active Model Serializer
Using Active Model Serializer Lab
Receiving API POSTs
Receiving API POSTs Lab

# **Project Mode**

<u>jQuery Tic Tac Toe</u>
<u>Rails App with a jQuery Front End</u>

## React

#### What is React?

Virtual DOM
Declarative Programming
createElement
createElement Lab

## Rendering

Components
Components Lab
JSX
JSX Lab
Babel Plugins
Render Quiz

# **Props**

Props
Props Lab
propTypes
propTypes Lab
this.props.childen
this.props.children Lab

### **State and Events**

Initial State
Initial State Lab
Event System
Event System Lab
Events In Detail
Events In Detail Lab
Updating State
Updating State Lab
Forms
Forms Lab
Props And State Lab

# **Mounting**

Component Lifecycle
Component Mounting And Unmounting
Component Mounting And Unmounting Lab

# **Rendering and Updating**

Rendering Lab
Component Lifecycle Lab

# **Component Communication**

**Changing State** 

**Changing State Lab** 

**React Actions** 

**React Actions Lab** 

**Stores** 

Stores Lab

**Unidirectional Data** 

**Unidirectional Data Lab** 

Components, Events, Actions And Stores

Wikipedia Search Lab

# **Smart Components**

Container Components

**Container Components Lab** 

# **Dumb Components**

**Presentation Components** 

**Presentation Components Lab** 

Props Props Props

Passing Props Lab

# Redux

# **Building Redux**

Why Redux

Redux Reducer

Redux Dispatch

**Redux Initial Dispatch** 

Redux Dispatch Practice

**Redux Dispatch With Event Listeners** 

**Redux Create Store** 

Redux Create Store Lab

### using redux with react

**Integrating React And Redux Codealong** 

Redux Forms Codealong

Redux Index Codealong

**Building Forms Lab** 

Redux Delete Codealong

Redux Delete Lab

Crud Lab

# redux library

Intro To Redux Library Codealong
Create Store Lab
Map State To Props Readme
Map State To Props Lab
Redux Action Creators
Map Dispatch To Props Readme
Map Dispatch To Props Lab
Combine Reducers Codealong
Redux Combine Reducers Lab
Cooking With Redux

#### react router

React Introduction To React Router
React Components As Routes Lab
React Router Nested Routes
React Router Params
React Redux Nested Routes Lab

# redux and apis

Redux Thunk Readme Redux Thunk Lab

# **Redux Final Project**

React Redux Portfolio Project