Unit Testing RxJS with Marble Diagrams

GETTING STARTED

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The Marble Testing allows to write tests for asynchronous functionality in synchronous and visual way

Challenges with Observable Testing

How to test Observables synchronously

How to make Observable stream predictable

How to mock Observable emitted values

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RxJS

Reactive Extension for JavaScript (RxJS). It is a library for reactive programming using observables that makes it easier to compose asynchronous code.

Marble Testing

Marble testing is a technique where we draw marble diagrams using ASCII characters while writing unit test to visualize asynchronous Observables behavior in a synchronous way.

Course Agenda

Jasmine Marble Basics

Testing with Hot and Cold Observables

Testing Business Logic

Testing for Exceptions

Getting Started

Prerequisites

Course Repository

Why Learn Marble Testing

Sample Application

Prerequisites

Prerequisites

Required
JavaScript

HTML

CSS

RxJS

Helpful
Angular

Typescript

Jasmine Tests

Not Required
Marble Diagrams

Marble Tests

Jasmine Marbles

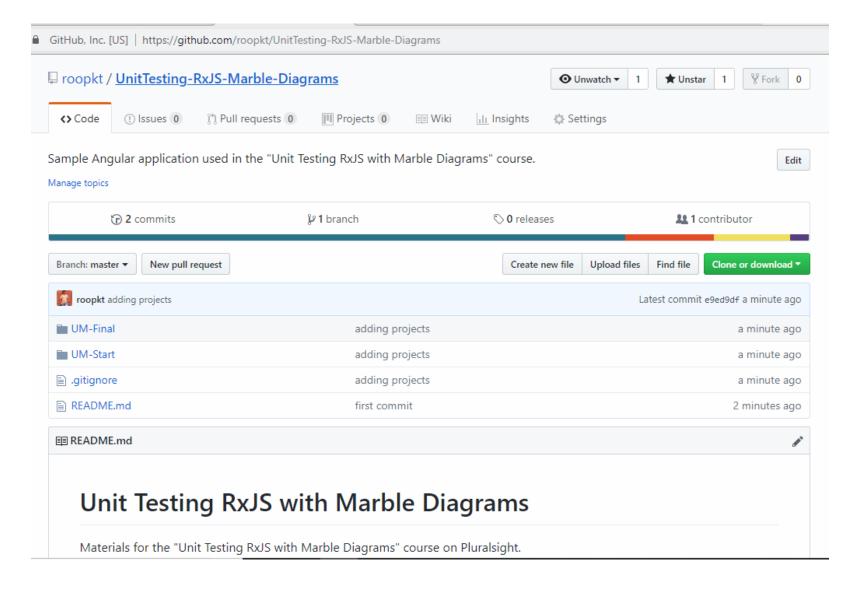# Course Repository

https://github.com/roopkt/
UnitTesting-RxJS-Marble-
Diagrams

GitHub Repository

Why Learn Marble Testing

Testing Observables

Modeling and testing an observable stream behavior over timeline is not lots of fun

Benefits of Marble Testing

Readable Code
Marble Testing makes your test code readable

Test Synchronously
Allows you write Asynchronous Test in a Synchronous

Race Conditions
Helps to find out race conditions in your code

Sample Application

Demo

User Management

Summary

Prerequisites

Course Repository

Why Learn Marble Testing

Sample Application