

Pragmatic Unit Testing In C

CppCon 2014: Matt Hargett \"Pragmatic Unit Testing in C++\" - CppCon 2014: Matt Hargett \"Pragmatic Unit Testing in C++\" 1 Stunde, 7 Minuten - <http://www.cppcon.org> — Presentation Slides, PDFs, Source Code and other presenter materials are available at: ...

Introduction

Summary

What unit testing is not

Optimize for readability

Readability Example: cgreen

Mocking: Runtime

Mocking: Side-by-side

Breaking Dependencies: Compile Time

Move Body: Template functions

Breaking Dependencies: Preprocessor

Breaking Dependencies: Redefine symbols

Breaking Dependencies: Link time

Breaking Dependencies: Static class

Runtime Performance (cont'd)

You Can't Unit Test C, Right? - You Can't Unit Test C, Right? 23 Minuten - Benno Rice

<http://lca2018.linux.org.au/schedule/presentation/114/> **Testing**, is a wonderful thing. Code with good **tests**, is so much ...

Intro

Why is testing awesome?

Automated testing is awesome!

What's a unit?

What else defines a unit test?

Pragmatism \u0026amp; Coverage

The Mechanics of Automated Unit Testing

Isn't this about C?

Static Compilation

Mocking \u0026 Stubbing

Framework #1: check

Framework #2: atf \u0026 kyua

Dynamic vs Static Linking

Best Practices for Ugly Hacks

Testing main()

Keep main() as small as possible

CppCon 2015: Matt Hargett “Advanced Unit Testing in C \u0026 C++” - CppCon 2015: Matt Hargett
“Advanced Unit Testing in C \u0026 C++” 1 Stunde - <http://www.Cppcon.org> — Presentation Slides, PDFs,
Source Code and other presenter materials are available at: ...

Intro

Summary

Agenda

For multi-taskers

Brief Refresher

Simple Unit Test in C: Start with a Bug

Simple Unit Test in C: Stub collaborators

Simple Unit Test: Running

Simple Unit Test: Mocking Example

Mocking: Link time Cgreen also supplies a mock framework

Mocking: Runtime

Unit Testing Kernel Code

(Linux) Kernel User-land Shim

Note

Mocking stdlib

Our impl and the test we want to write

Satisfying minimal dependencies

Mocking Singletons

Common header, our impl

Link-time mock wraps mockitopp

Mocking Factories

Deep Factory Mocking Example

Deploying a test framework

Vladimir Khorikov — Pragmatic unit testing - Vladimir Khorikov — Pragmatic unit testing 59 Minuten - Unit testing, is a vast topic. The industry has accumulated a huge amount of information about it during the past two decades.

About Myself

What's the Goal of Unit Testing

Important Benefit of Having a Unit Test Suite

Coverage Metrics

The Pragmatic Approach to Doing Testing

Protection against Regressions

Resistance to Refactoring

False Positive

What Causes False Positive

Maintainability

End-to-End Tests

Brittle Tests

Test Pyramid

Types of Unit Testing

Types of Unit Testing

State Based Testing

Collaboration Based Testing

Output Based Testing

Observable Behavior

Observable Behavior of the Application Services Layer

Maintaining Backward Compatibility

Examples

Three Types of Unit Testing

General Guideline

Sample Project

Main View Model

Overall Architecture

Components of Available Tests

Infinte Jest: Pragmatic Unit Testing with Casey Ydenberg - Infinte Jest: Pragmatic Unit Testing with Casey Ydenberg 32 Minuten - FIND US ON THE WEB === WEBSITE: <https://exchangejs.com> TWITTER: <https://twitter.com/edmontonjs> MEETUP: ...

Introduction

Overview

Why write unit tests

Testdriven development philosophy

Assumptions

What is unit testing

How to make it more efficient

Pure

Asynchronous

Testing Framework

Jest Overview

Example

Testing

Pricing

Failing tests

Writing implementation code

Example code

React

Enzyme

Promises

Is it still alive

Back to Basics: Unit Testing in C++ - Dave Steffen - CppCon 2024 - Back to Basics: Unit Testing in C++ - Dave Steffen - CppCon 2024 1 Stunde - Back to Basics: **Unit Testing**, in C++ - Dave Steffen - CppCon 2024 --- **Unit Testing**, is a big, complicated subject. With good advice ...

Unit Testing Exceptions in C# [EN] - Unit Testing Exceptions in C# [EN] 11 Minuten, 33 Sekunden - Using **unit tests for**, exceptions in C# **Unit Tests**,: <https://www.youtube.com/watch?v=bhgEYLahrAk>
Repository: ...

Unit Testing an Expression Template Library in C++20 - Braden Ganetsky - C++Now 2024 - Unit Testing an Expression Template Library in C++20 - Braden Ganetsky - C++Now 2024 1 Stunde, 20 Minuten - Unit Testing, an Expression Template Library in C,++20 - Braden Ganetsky - C,++Now 2024 --- Expression templates are one of the ...

C Programming For Beginners: Tip #3: Unit Test To Ensure Consistency - C Programming For Beginners: Tip #3: Unit Test To Ensure Consistency 5 Minuten, 46 Sekunden - Udemy courses: get book + video content in one package: Embedded C, Programming Design Patterns Udemy Course: ...

Introduction

Overview

Code Coverage

Writing Unit Tests

Back to Basics: C++ Testing - Amir Kirsh - CppCon 2022 - Back to Basics: C++ Testing - Amir Kirsh - CppCon 2022 1 Stunde, 2 Minuten - Proper developer **testing**, is one of the most important steps in software development, and yet sometimes tend to be neglected, ...

The Science of Unit Tests - Dave Steffen - CppCon 2020 - The Science of Unit Tests - Dave Steffen - CppCon 2020 55 Minuten - But what are the fundamentals that lie beneath all the good advice? What principles should guide our **testing**,? This talk will start ...

Introduction

Previous CppCon talks

Properties of Unit Tests

Common Solutions

Whitebox Testing

BehaviorDriven Testing

The Luminiferous Ether

Empirical Science

Experimental Science

Experimental Setup

Precision

Alternative Solutions

Accuracy

Conclusion

Alexander Steffen - Writing unit tests for C code in Python - Alexander Steffen - Writing unit tests for C code in Python 26 Minuten - There are many **unit testing**, frameworks for **C**, out there, but most of them require you to write your **tests in C**, (or C++). While there ...

Introduction

First example

Second example

Third example

Fourth example

Drawbacks

Questions

Why I Don't Unit Test - Why I Don't Unit Test 8 Minuten, 25 Sekunden - Keywords: TESTING E2E **UNIT TESTS**, CI CD END TO END INTEGRATION TESTING REACT JAVASCRIPT TYPESCRIPT LIVE ...

Test Driven C++ - Phil Nash - CppCon 2020 - Test Driven C++ - Phil Nash - CppCon 2020 1 Stunde, 1 Minute - We know that **testing**, is important, but writing **tests**, is hard and takes time - and can be demotivating when you want to hack out ...

Back to Basics: Test-driven Development - Fedor Pikus - CppCon 2019 - Back to Basics: Test-driven Development - Fedor Pikus - CppCon 2019 1 Stunde, 1 Minute - — Back to Basics: **Test**,-driven Development In this class, attendees will learn about **test**,-driven development as it applies to C++ ...

Test-Driven Development

Unit Tests

Acceptance Test

Performance Tests

Unit Testing

Unit Testing Frameworks

Write a Solver for the Sudoku Puzzle

Google Test Framework

Test-Driven Development Process

Example Driven Design

How Do You Know When You Have Enough Tests

Testing Implementation

Other Options

Test Doubles

Compiler Magic

Compiler Flags Build Magic

Problems with Dependency Injection

Inversion of Control

Interface Injection

Runtime Polymorphism

Corner Cases

Testing Parallel Programs

Test-Driven Development of Multi-Threaded Programs

How Do You Test Concurrent Programs

Unit Testing of Concurrent

Dependency Injection

Be Practical

Intro to CI/CD Part 3: Getting Started with Unit Testing | Digi-Key Electronics - Intro to CI/CD Part 3: Getting Started with Unit Testing | Digi-Key Electronics 50 Minuten - This tutorial shows how to use CppUTest to build **unit tests for C/C++** applications. From there, we automate the testing process ...

Unit testing principles, patterns and practices (ft. Vlad Khorikov) - Unit testing principles, patterns and practices (ft. Vlad Khorikov) 39 Minuten - Nesse vídeo, conversamos com Vladimir Khorikov. Famoso autor de cursos para a Pluralsight que, recentemente, escreveu um ...

Introduction

Legacy Code

What changed since the Michael Feathers book?

Test maintainability

DDD and Unit Testing

Micro-services and Unit Testing

Conclusion

Unit Testing Best Practices with Vladimir Khorikov - Unit Testing Best Practices with Vladimir Khorikov 1 Stunde, 6 Minuten - Unit testing, is a vast topic. The industry has accumulated a huge amount of information about it during the past two decades.

How to measure unit test effectiveness

Functional and to end tests

Trivial tests

Fragile tests

Ideal test

How to write effective tests

Humble Object pattern

Mocking in C# Unit Tests - How To Test Data Access Code and More - Mocking in C# Unit Tests - How To Test Data Access Code and More 1 Stunde, 2 Minuten - Unit tests, are great, but how do you test your data access? You sure don't want to actually delete records when you are testing the ...

Intro

Getting started: demo application code and setup

Problems with testing methods that manipulates with external stuff (database edits, e-mail senders etc)

Mocking explained

Writing tests with mocking

Adding references for testing with MOCK

Using statement

AutoMock.GetLoose() vs AutoMock.GetStrict()

Using AutoMock: Writing the Unit Test with mocking

Refactoring method that's under a UnitTest

Checking data: comparing two objects

Testing method that returns void

Testing SQL call modification

Recap

Advice for beginners

What not to test and why

Summary

Learning steps

Unit testing in C with criterion - Unit testing in C with criterion 12 Minuten, 58 Sekunden - Finally, a clean and simple library to do **unit test in C**, and C++. criterion: <https://github.com/Snaipe/Criterion> criterion doc: ...

Test Driven Development for Embedded C (Pragmatic Programmers) - Test Driven Development for Embedded C (Pragmatic Programmers) 3 Minuten, 36 Sekunden - Get the Full Audiobook for Free: <https://amzn.to/4g4c6Cf> Visit our website: <http://www.essensbooksummaries.com> \ "**Test**, Driven ...

UT - C++20 Unit Testing Framework - Kris Jusiak - [CppNow 2021] - UT - C++20 Unit Testing Framework - Kris Jusiak - [CppNow 2021] 1 Stunde, 31 Minuten - In this case study, we will address the difficulty of **testing**, with C++ by implementing a new, fully functional, macro-free **testing**, ...

The Motivation

The Future

Implementation

Concept Test

Summary about the Concepts

Test Implementation

Operator Overloading

Immediately Invoked Function Expressions

Test Suite

Overview the Ut Framework

Does Ut Support Mocking

Fatal Expressions Assertion

Test Suite with Errors

Parameters Tests

Template Meta Programming

Lambdas

Benchmarking

Benchmarks

Reasons Why Ut Is Fast To Compile and Execute

Macro Based Frameworks

Intro to Unit Testing in C# using XUnit - Intro to Unit Testing in C# using XUnit 1 Stunde, 42 Minuten - Unit testing, is an important part of writing quality software. It is also a controversial and somewhat difficult topic to get started in.

Intro

Working environment

Demo application walk-through

Unit Testing explained

Creating a Unit Test project

Setting up a test

A bad Unit Test and Test Driven Development

Opinion on Unit Testing

Shortening Test name

"Theory\": Test method parameters and arguments

Testing edge cases

Testing number division

Dividing by zero

Testing methods that can throw exceptions: method returns output

Debugging the Unit Test

Testing the exceptions: method throws exception

Testing the exceptions: method argument throws exception

Testing, methods that do more than one thing: what is a ...

Breaking method in to individual methods, what to test and what not to test

"Add to List\" Tests: working test

"Add to List\" Tests: failing test

Homework

Concluding remarks

This Is Why You Suck At Unit Testing - This Is Why You Suck At Unit Testing 8 Minuten, 32 Sekunden - In this video, I'm going to show you 4 common mistakes that software engineers make when it comes to **unit testing**..

Unit Testing C# Code - Tutorial for Beginners - Unit Testing C# Code - Tutorial for Beginners 44 Minuten - 00:00 What is Automated **Testing**, 02:42 Benefits of Automated **Testing**, 05:20 Types of **Tests**, 09:22 **Test**,

Pyramid 12:18 The Tooling ...

What is Automated Testing

Benefits of Automated Testing

Types of Tests

Test Pyramid

The Tooling

Source Code

Writing Your First Unit Test

Testing All the Execution Paths

Refactoring With Confidence

Using NUnit in Visual Studio

What is Test-Driven Development

Course Structure

Summary

Beginning C - Part 23 Unit Testing a Permutation - Beginning C - Part 23 Unit Testing a Permutation 35 Minuten - In this short video, I demonstrate a simple way to write **unit tests for**, your **C**, programs. This video demonstrates a simple problem of ...

Intro

Test Function

Test Cases

Sort Function

Characteristics

Memory Allocation

String Copy

Sort

Copy Sort

Memory Leaks

LS33.2 - C - Unit Testing Introduction with Google Test - LS33.2 - C - Unit Testing Introduction with Google Test 11 Minuten, 43 Sekunden - Press ENTER or type command to continue bash support/**test**,/**unit** ./make.sh The **C**, compiler identification is GNU 7.4.0 The cxx ...

Course Preview: Building a Pragmatic Unit Test Suite - Course Preview: Building a Pragmatic Unit Test Suite 1 Minute, 12 Sekunden - Join Pluralsight author Vladimir Khorikov as he walks you through a preview of his \"Building a **Pragmatic Unit Test**, Suite\" course ...

Introduction

Overview

Major Topics

Prerequisites

Thoughts About Unit Testing | Prime Reacts - Thoughts About Unit Testing | Prime Reacts 11 Minuten, 21 Sekunden - Recorded live on twitch, GET IN <https://twitch.tv/ThePrimeagen> Article: ...

Unit Testing With Ceedling - Unit Testing With Ceedling 39 Minuten - A walkthrough where I develop a **unit test**, for a command system using Ceedling.

Create a New C File

Boilerplate

Declare a Test Function

Assertion

Unity Assertions Reference Guide

Assertions

Integer Assertions

Undefined Symbols

Mocking System

Suchfilter

Tastenkombinationen

Wiedergabe

Allgemein

Untertitel

Sphärische Videos

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