Pragmatic Unit Testing In C

CppCon 2014: Matt Hargett \"Pragmatic Unit Testing in C++\" - CppCon 2014: Matt Hargett \"Pragmatic Unit Testing in C++\" 1 hour, 7 minutes - http://www.cppcon.org — Presentation Slides, PDFs, Source Code

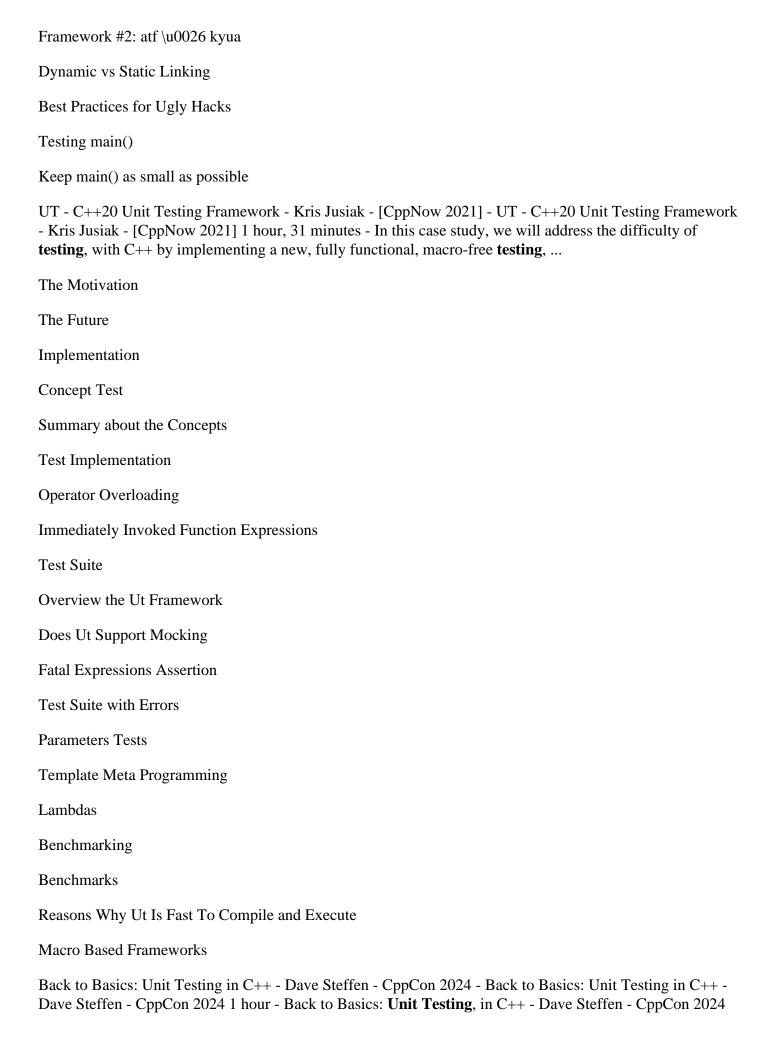
and other presenter materials are available at: ... Introduction Summary What unit testing is not Optimize for readability Readability Example: cgreen Mocking: Runtime Mocking: Side-by-side Breaking Dependencies: Compile Time Move Body: Template functions Breaking Dependencies: Preprocessor Breaking Dependencies: Redefine symbols Breaking Dependencies: Link time Breaking Dependencies: Static class Runtime Performance (cont'd) CppCon 2015: Matt Hargett "Advanced Unit Testing in C\u0026 C++" - CppCon 2015: Matt Hargett "Advanced Unit Testing in C \u0026 C++" 1 hour - 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: Running

Simple Unit Test in C: Start with a Bug

Simple Unit Test in C: Stub collaborators

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 You Can't Unit Test C, Right? - You Can't Unit Test C, Right? 23 minutes - 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 \u0026 Coverage The Mechanics of Automated Unit Testing Isn't this about C? Static Compilation Mocking \u0026 Stubbing Framework #1: check



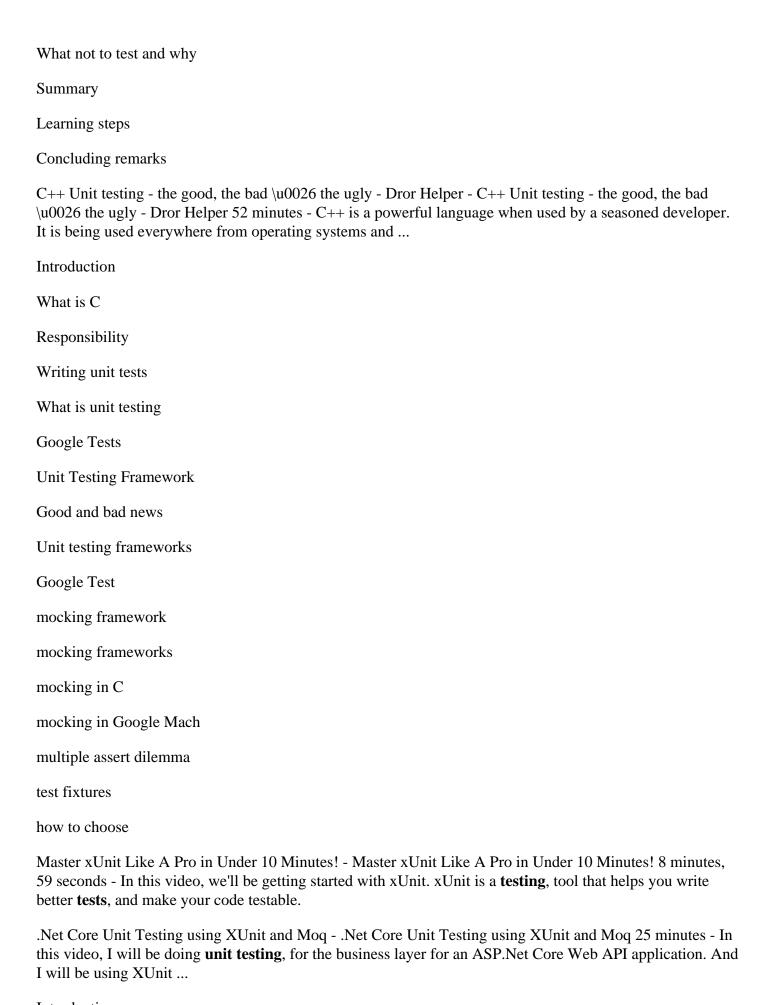
Vladimir Khorikov — Pragmatic unit testing - Vladimir Khorikov — Pragmatic unit testing 59 minutes -Unit testing, is a vast topic. The industry has accumulated a huge amount of information about it during the past two decades. About Myself What's the Goal of Unit Testing Important Benefit of Having a 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

--- Unit Testing, is a big, complicated subject. With good advice ...

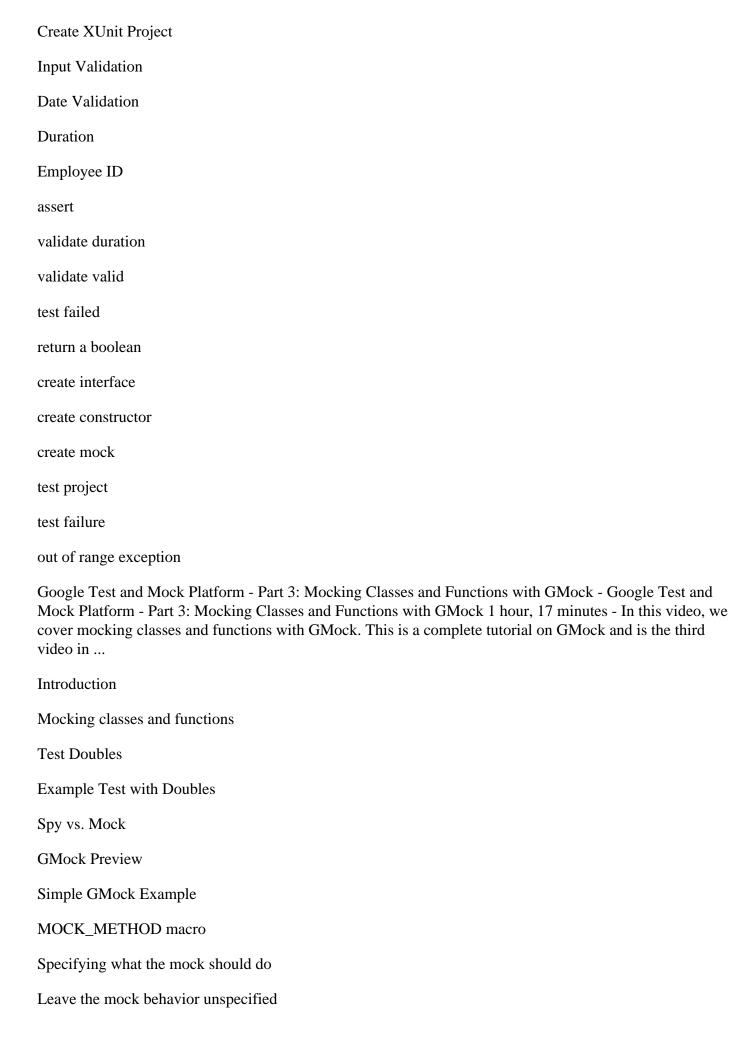
| Main View Model |
|---|
| Overall Architecture |
| Components of Available Tests |
| The Unit Tests Strike Back: Testing the Hard Parts - Dave Steffen - CppCon 2021 - The Unit Tests Strike Back: Testing the Hard Parts - Dave Steffen - CppCon 2021 1 hour, 1 minute - But in real life, it's rarely possible to meet all these goals at the same time, and some situations make writing unit tests , difficult or |
| Intro |
| Overview |
| Plan A Fails |
| The Problem |
| Buggy Nondeterminism |
| Plan B |
| Plan C |
| Summary |
| Fix the interface |
| Design mistake |
| Whitebox test |
| Friend class |
| How did we get here |
| What is Plan Omega |
| Conclusion |
| QA |
| Unit Testing Exceptions in C# [EN] - Unit Testing Exceptions in C# [EN] 11 minutes, 33 seconds - Using unit tests for , exceptions in C# Unit Tests ,: https://www.youtube.com/watch?v=bhgEYLahrAk Repository: |
| Cantata - The Unit Testing Tool for C/C++ - Cantata - The Unit Testing Tool for C/C++ 52 minutes - Cantata provides advanced high productivity techniques, allowing developers to dynamically prove their code with intelligent unit , |
| Introduction |
| Software Development Lifecycle |
| Open Source Tools |
| |

| Cantata on Host and Target |
|---|
| What Makes Cantata Different |
| Unit Isolation |
| stub |
| wrappers |
| main differences |
| integrated code coverage |
| legacy test cases |
| autotest parse |
| certification |
| generating test scripts |
| test script manager |
| account interface |
| console output |
| Wrapper |
| Before After |
| Whats next |
| Back to Basics: C++ Testing - Amir Kirsh - CppCon 2022 - Back to Basics: C++ Testing - Amir Kirsh - CppCon 2022 1 hour, 2 minutes - 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 minutes - 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 |
| How to write a simple mock class in C++ using GMock framework - How to write a simple mock class in C++ using GMock framework 17 minutes - This is a very short tutorial of how to write a simple mock class in C++ using Google GMock framework and how to simple use it in |
| Test Driven C++ - Phil Nash - CppCon 2020 - Test Driven C++ - Phil Nash - CppCon 2020 1 hour, 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 |
| 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 hour, 2 minutes - 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 |



Introduction



What is EXPECT_CALL macro Cardinality in EXPECT_CALL Uninteresting calls NiceMock and StrictMock Unexpected vs uninteresting calls Sequencing in EXPECT_CALL **GMock Actions** GMock Actions: Return a value GMock Actions: Side effects GMock Actions: Invoke a function **Custom GMock Actions** Sticky rules in GMock Checkpoints Mocking Private Methods Mocking Overloaded Methods Mocking Template Classes Mocking Non-Virtual Classes **Mocking Free Functions** Delegating to Fake and Real in GMock Pragmatic Testing in iOS - 13: Implementing APR Calculation Fails for SSN with no Credit Score -Pragmatic Testing in iOS - 13: Implementing APR Calculation Fails for SSN with no Credit Score 14 minutes, 9 seconds - ... unit test, because we are actually you know stubbing everything out uh the next part is we also need to do integration testing and ... Pragmatic Unit Testing in Java 8 with JUnit - Pragmatic Unit Testing in Java 8 with JUnit 1 minute, 53 seconds - From www.pragprog.com: The **Pragmatic**, Programmers classic is back! Freshly updated for modern software development, ... Effective Unit Testing by Eliotte Rusty Harold - Effective Unit Testing by Eliotte Rusty Harold 48 minutes -You've been bitten by the **testing**, bug, are thoroughly **test**, infected. Excellent! You're undoubtedly producing more robust, less ... Intro Why do we write unit tests?

Pragmatic Unit Testing In C

What is ON_CALL macro

| Eliminate everything that makes input or output unclear or contingent |
|---|
| Why Unit Tests? |
| Tests and Thread Safety |
| The Two Least Known Facts of Unit Testing |
| 1. Tests do not share instance data |
| 2. You can have many test classes per model class. |
| Speed |
| Passing tests should produce no output |
| Failing tests should produce clear output |
| Flakiness |
| System Skew |
| Avoid Conditional Logic in Tests |
| Refactoring |
| Development Practices |
| Final Thoughts |
| Test Driven Development for Embedded C (Pragmatic Programmers) - Test Driven Development for Embedded C (Pragmatic Programmers) 3 minutes, 36 seconds - Get the Full Audiobook for Free: https://amzn.to/4g4c6Cf Visit our website: http://www.essensbooksummaries.com \"Test, Driven |
| C# Unit Testing - Full Course - Write Unit Tests in C# like a pro! - C# Unit Testing - Full Course - Write Unit Tests in C# like a pro! 1 hour, 22 minutes - Want to TEST your SOFTWARE LIKE A PRO? The industry standard would be this! Unit testing , is THE way to professionally |
| Welcome to this 1.5 Hour C# Unit Testing course! |
| Introduction to unit testing |
| What is unit testing |
| Our first test |
| Refactoring and adding domain project |
| Our ALL ACCESS Subscription |
| Adding Web API Project |
| Test first approach |
| Assertion Message |
| |

| Test Conditions and prerequisites |
|---|
| Setting up flight project |
| Translating a scenario to test |
| Red green Refactor |
| Given When Then Pattern and Avoid Overbooking Scenario Discovery |
| Avoid Overbooking Scenario |
| Unit Testing C# Code - Tutorial for Beginners - Unit Testing C# Code - Tutorial for Beginners 44 minutes - 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 |
| LS33.2 - C - Unit Testing Introduction with Google Test - LS33.2 - C - Unit Testing Introduction with Google Test 11 minutes, 43 seconds - Press ENTER or type command to continue bash support/ test ,/ unit ,/make.sh The C , compiler identification is GNU 7.4.0 The cxx |
| Unit Testing CQRS Handlers With Moq, Fluent Assertions, and xUnit - Unit Testing CQRS Handlers With Moq, Fluent Assertions, and xUnit 13 minutes, 53 seconds - In this video, I'm going to show you how to unit test , your CQRS command handlers. Unit testing , command handlers is very easy |
| What are we writing tests for? |

Fluent Assertions

Writing the first unit test

Accessing internal members in unit tests Mocking dependencies with Moq Writing assertions with FluentAssertions Setting up mock methods Writing the second unit test Writing our third unit test Writing our fourth unit test What is Unit Testing? Why YOU Should Learn It + Easy to Understand Examples - What is Unit Testing? Why YOU Should Learn It + Easy to Understand Examples 10 minutes, 43 seconds - If you haven't come across unit testing, and wondering what it's all about then take some time and watch this video. It's a quick ... C# Unit Testing Best Practices for Great Code Coverage - C# Unit Testing Best Practices for Great Code Coverage 17 minutes - In this video, I will show you how to unit,-test, domain services. Unit testing, domain services is easy since most dependencies will ... Principles of Unit Testing With C++ - - Principles of Unit Testing With C++ - 1 hour, 15 minutes - Dave Steffen and Kris Jusiak present on the principles of **unit testing**, in C++. Don't miss this presentation where they will use Kris ... Principles of Unit Testing Outline Properties of Good Tests: Correctness Properties of Good Tests: Readability How do you test your unit tests? Properties of Good Tests: Completeness Properties of Good Tests: Demonstrability

Properties of Good Tests: Resilience

Testing Classes

The \"Black Box Conundrum\"

Common Solutions

Kevlin's Solution: \"Behavior Driven Testing\"

How does it work?

Behavior not Implementation

Unit Tests and Test Doubles like Mocks, Stubs \u0026 Fakes - Unit Tests and Test Doubles like Mocks, Stubs \u0026 Fakes 17 minutes - Rebranding - An Insightful Techie We can't touch, smell or feel the software to ascertain its quality. We have to rely on **Tests**, ...

Let's learn about Unit Tests Why?

Unit Tests, Mocks, Fakes, Stubs ??? What, How \u0026 Why
Why Write Unit Test??

What is meant by the Unit in Unit Testing ?

What is meant by the code that can execute Independently?

Unit Test are

Writing Unit Tests Arrange - Act - Assert (AAA)

Test Doubles

Mocks - Mocks replaces external interface

STUBS - Generates Predefined Outputs

THANK YOU For Learning about Unit Tests

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