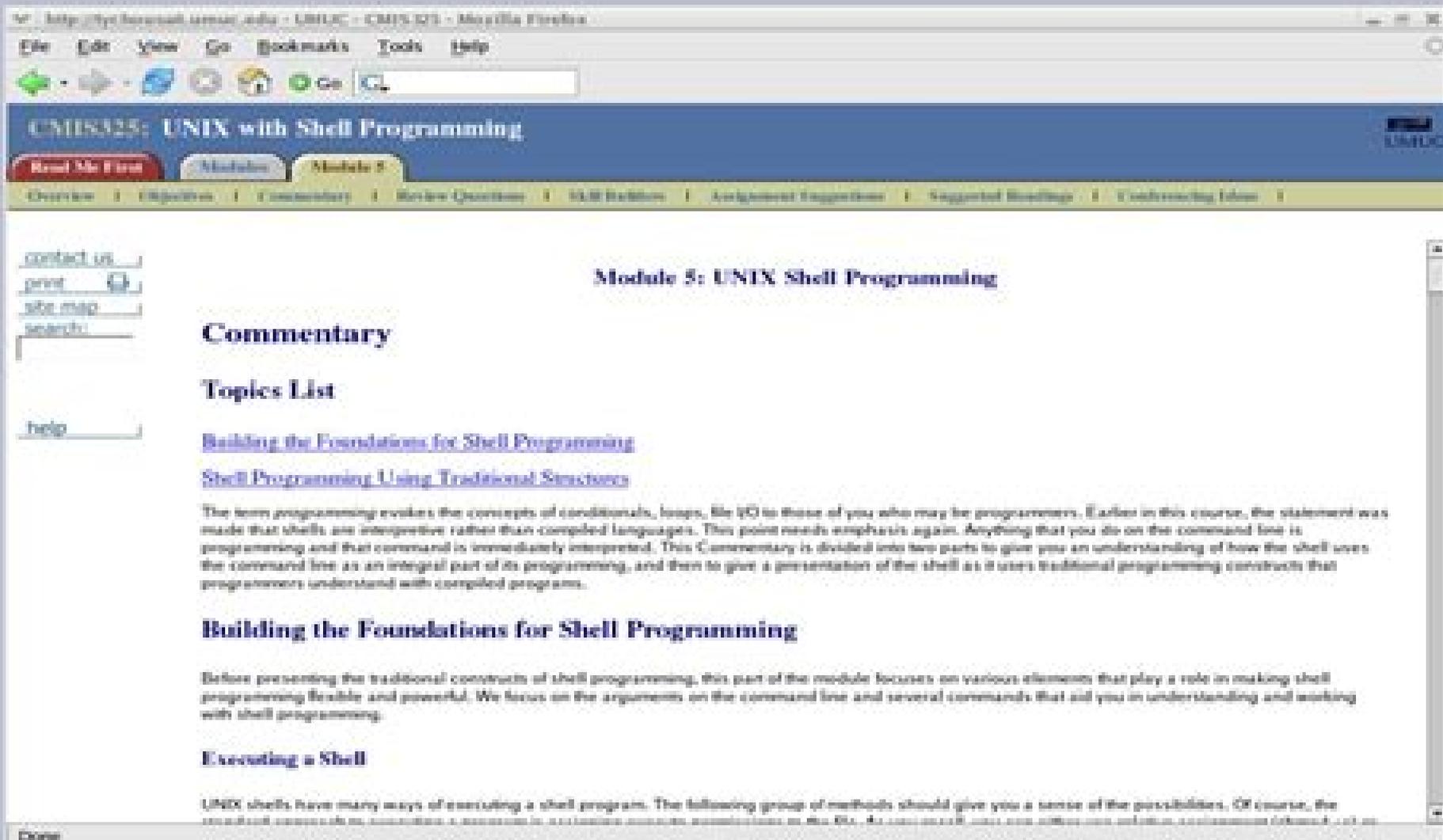


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Module 5: UNIX Shell Programming

Commentary

Topics List

- [Building the Foundations for Shell Programming](#)
- [Shell Programming Using Traditional Structures](#)

The term programming evokes the concepts of conditionals, loops, file I/O to those of you who may be programmers. Earlier in this course, the statement was made that shells are interpretive rather than compiled languages. This point needs emphasis again. Anything that you do on the command line is programming and that command is immediately interpreted. This Commentary is divided into two parts to give you an understanding of how the shell uses the command line as an integral part of its programming, and then to give a presentation of the shell as it uses traditional programming constructs that programmers understand with compiled programs.

Building the Foundations for Shell Programming

Before presenting the traditional constructs of shell programming, this part of the module focuses on various elements that play a role in making shell programming flexible and powerful. We focus on the arguments on the command line and several commands that aid you in understanding and working with shell programming.

Executing a Shell

UNIX shells have many ways of executing a shell program. The following group of methods should give you a sense of the possibilities. Of course, the standard command-line execution is executed in a traditional manner, as shown in the following example.

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M Lipman



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JUnit in Action, Third Edition Catalin Tudose, 2020-12-08 JUnit in Action Third Edition has been completely rewritten for this release The book is full of examples that demonstrate JUnit s modern features including its new architecture nested tagged and dynamic tests and dependency injection Summary JUnit is the gold standard for unit testing Java applications Filled with powerful new features designed to automate software testing JUnit 5 boosts your productivity and helps avoid debugging nightmares Whether you re just starting with JUnit or you want to ramp up on the new features JUnit in Action Third Edition has you covered Extensively revised with new code and new chapters JUnit in Action Third Edition is an up to date guide to smooth software testing Dozens of hands on examples illustrate JUnit 5 s innovations for dependency injection nested testing parameterized tests and more Throughout you ll learn how to use JUnit 5 to automate your testing for a process that consumes less resources and gives you more time for developing Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology The JUnit framework is the gold standard for unit testing Java applications and knowing it is an essential skill for Java developers The latest version JUnit 5 is a total overhaul now supporting modern Java features like Lambdas and Streams About the book JUnit in Action Third Edition has been completely rewritten for this release The book is full of examples that demonstrate JUnit s modern features including its new architecture nested tagged and dynamic tests and dependency injection You ll benefit from author Catalin Tudose s unique pyramid testing strategy which breaks the testing process into layers and sets you on the path to bug free code creation What s inside Migrating from JUnit 4 to 5 Effective test automation Test driven development and behavior driven development Using mocks for test isolation Connecting JUnit 5 with Maven or Gradle About the reader For intermediate Java developers About the author Catalin Tudose has a Ph D in Computer Science and over 15 years of experience as a Senior Java Developer and Technical Team Lead Previous editions were authored by Petar Tahchiev Felipe Leme Gary Gregory and Vincent Massol Table of Contents PART 1 JUNIT 1 JUnit jump start 2 Exploring core JUnit 3 JUnit architecture 4 Migrating from JUnit 4 to JUnit 5 5 Software testing principles PART 2 DIFFERENT TESTING STRATEGIES 6 Test quality 7 Coarse grained testing with stubs 8 Testing with mock objects 9 In container testing PART 3 WORKING WITH JUNIT 5 AND OTHER TOOLS 10 Running JUnit tests from Maven 3 11 Running JUnit tests from Gradle 6 12 JUnit 5 IDE support 13 Continuous integration with JUnit 5 PART 4 WORKING WITH MODERN FRAMEWORKS AND JUNIT 5 14 JUnit 5 extension model 15 Presentation layer testing 16 Testing Spring applications 17 Testing Spring Boot applications 18 Testing a REST API 19 Testing database applications PART 5 DEVELOPING APPLICATIONS WITH JUNIT 5 20 Test driven development with JUnit 5 21 Behavior driven development in JUnit 5 22 Implementing a test pyramid strategy with JUnit 5

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