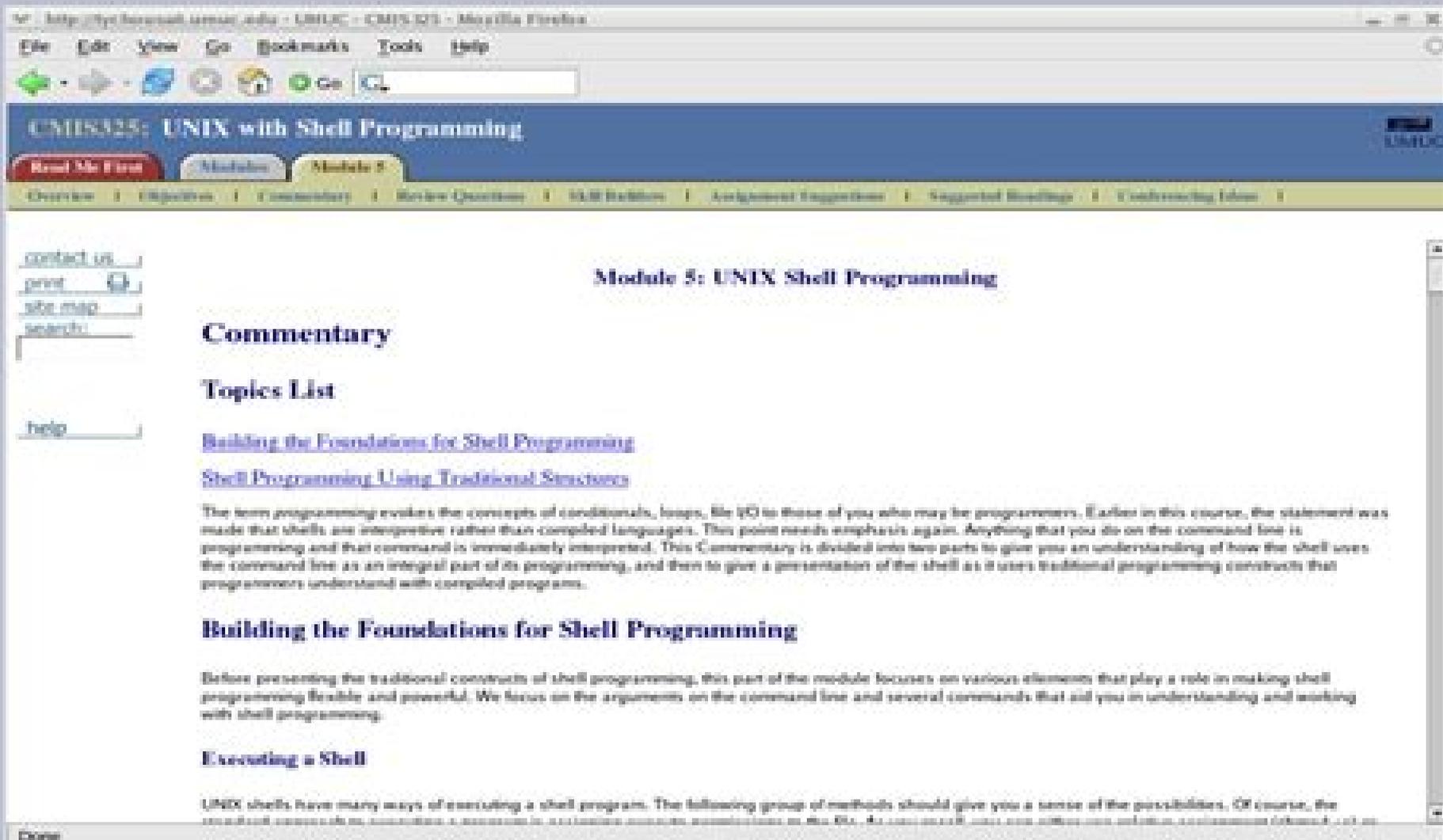


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### Module 5: UNIX Shell Programming

#### 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 shell environment on the fly. An execution may also occur within an interactive environment (sh, sh, sh).

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