

»
Programming 2
Cptr.212

Fall 2020 | Southwestern College
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Assignment #3
"Command Line Text Reader"

» DELIVERABLES

Create a program that opens and prints text from a plain text .txt file.

Review *Modern C* section 8.3 (*input, output, and file manipulation*) and section 8.4 (*string processing and manipulation*; also review chapter 6 (*derived data types*)). If you're not yet comfortable with the different types of data we're using, it will be useful to review chapter 5 (*basic values and data*; while recommended, be aware that it goes into a level of detail beyond what we will be addressing directly).

» BRIEF

The program should display the text so that it is easily legible for the reader: allow for scrolling through the text, display instructions for the reader, and allow for text alterations (e.g. word highlighting, word subtraction).

The program should receive the name of the text file as an argument. You can assume that the user will only supply one argument to the program, for instance, running it with "textreader ATaleOfTwoCities.txt".

A plain text copy of "A Tale of Two Cities" by Charles Dickens will be available for testing, and it can also be downloaded from
<https://www.gutenberg.org/files/98/98.txt>.

» COMMENTS

This assignment connects to many of the techniques we've discussed in previous weeks, such as multidimensional arrays, nested for-loops, and stdin and stdout techniques. On Monday and Wednesday we will discuss C library functions for getting data from files, ways of accessing and parsing arguments, and structs.