

Course Title

session

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1 Preface

1.1 Mission Statement

With this work, I set out to develop a comprehensive set of lecture notes, on the topic of Data Structures. While developing these notes, I am keeping in mind both the lecturer, and the learner. My goal is that this will amount to an educational resource that acts as a guide throughout fundamental topics, in a manner which is accessible and painless for all parties. This work should provide confidence and direction to its reader, whether they are at the front of a classroom, or at their dining-room table.

1.2 Acknowledgments

I would like to thank the Center for Academic Success and Accessibility Services at Southern Connecticut State University, for the employment and opportunity to develop these materials. I would like to extend this thank you for all of the administrative support I have recieved to my boss Kathleen De Oliveira, and coordinaters Tanisha Guadalupe De Jesús, Calleigh Cotter, and Mia Grella. Of course, I would like to extend this thank you to Professor Carl Haberfeld, for allowing me to attend his CSC-212 lectures.

2 Introduction's Introduction

I am very excited to dive into the wonderful world of **data structures**. Before we get started, there is just a bit of housekeeping to do. These matters are more relevant to the themes of this work, and the text as it appears on paper. I figure this is not really an introduction to data structures, its more of a introduction to data structures's introduction!

2.1 Python Examples

Topics and key ideas will usually correspond to some kind of Python example. An assumption is being made that the reader is to some extent *aquainted* with Python. There is absolutely no need to be a wizard of Pythonism, so there are notes clarifying syntax where necessary.

2.1.1 I Hate Snake Case

Per the title of this soap-box, I am not a fan of 'snake_case' as a naming convention. For the Python examples I will be writing in 'camelCase.' Is it my early Java Indoctrination peaking through? Maybe—but a set naming convention is almost entirely superfluous, and it looks nicer to my eyes. camelCase it is.

Let's get accustomed to it, here's Example 1!

Example 1: (Example01.py)

```
1 def sayHi():
2     print("Hello world!")
3
4 sayHi()
```

The reference to the actual script 'Example01.py' is included for your convenience, it can be found in the corresponding GitHub Repository!

References