Table of Contents

PYTHON FOR DESKTOP APPLICATIONS 2
Copyright 3
About the Author 4
By the same Author 5
Table of Contents 6
Preface 9
What this book covers 9
What you need for this book 11
Who this book is for 12
How to use this book 13
Conventions 14
Reader feedback 16
Downloading example code 17
Chapter 1: Introduction 19
1.1. Introduction 19
PIP 21
Wheels 21
Virtual Environment 22
GIL 24
CLI and GUI 25
Anaconda and Miniconda 27
1.2. Environment Setup 29
Choosing the right Python version 29
32-bit or 64-bit? 30

Text Editor 30
Git 31
The first Python application 31
The second Python application 35
Working with Virtual Environment 37
1.3. References 40
Chapter 2: Creating a File Downloader with Tkinter 41
2.1. Creating a basic GUI application with Tkinter 42
2.2. Creating a Python downloader application 49
Creating a console file downloader with progress information 49
Creating a GUI file downloader 55
Exercises 68
2.3. Creating a executable (.exe) for the GUI Downloader App 69
What about other packager? 69
Installing dependencies 70
Packing the GUI Downloader 70
UPX or NOUPX 73
2.4. Creating an installer for GUI Downloader App 76
Working with the NSI file 77
Running the setup 85
2.5. References 93
Chapter 3: Creating a Music Player with Kivy 94
3.1. Preparing the environment 96
3.2. Creating a simple GUI with Kivy 97
3.3. Working with .kv files 101

3.4. Creating a music player application with Kivy 106
Kivy Logger 117
3.5. Creating an executable for the Python Music Player 119
3.6. References 124
Chapter 4: Debugging 125
4.1. Removing the -w option 126
4.2. Using a file logger 128
4.3. Data files 128
4.4. UPX and vcruntime140.dll 129
4.5. Using DependencyWalker (Windows only) 129
4.6. Using another packager 134
Using cx_Freeze 134
4.7. References 139
Appendix 1: List of figures 140
Appendix 2: List of examples 143