



PDF

Succinctly

by Ryan Hodson

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Foreword by Daniel Jebaraj



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E dited by

This publication was edited by Stephen Jebaraj, senior product manager, Syncfusion, Inc.

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The Story Behind the *Succinctly* Series of Books

Daniel Jebaraj, Vice President
Syncfusion, Inc.

Staying on the cutting edge

As many of you may know, Syncfusion is a provider of software components for the Microsoft platform. This puts us in the exciting but challenging position of always being on the cutting edge.

Whenever platforms or tools are shipping out of Microsoft, which seems to be about every other week these days, we have to educate ourselves, quickly.

Information is plentiful but harder to digest

In reality, this translates into a lot of book orders, blog searches, and Twitter scans.

While more information is becoming available on the Internet and more and more books are being published, even on topics that are relatively new, one aspect that continues to inhibit us is the inability to find concise technology overview books.

We are usually faced with two options: read several 500+ page books or scour the web for relevant blog posts and other articles. Just as everyone else who has a job to do and customers to serve, we find this quite frustrating.

The *Succinctly* series

This frustration translated into a deep desire to produce a series of concise technical books that would be targeted at developers working on the Microsoft platform.

We firmly believe, given the background knowledge such developers have, that most topics can be translated into books that are between 50 and 100 pages.

This is exactly what we resolved to accomplish with the *Succinctly* series. Isn't everything wonderful born out of a deep desire to change things for the better?

The best authors, the best content

Each author was carefully chosen from a pool of talented experts who shared our vision. The book you now hold in your hands, and the others available in this series, are a result of the authors' tireless work. You will find original content that is guaranteed to get you up and running in about the time it takes to drink a few cups of coffee.

Free forever

Syncfusion will be working to produce books on several topics. The books will always be free. Any updates we publish will also be free.

Free? What is the catch?

There is no catch here. Syncfusion has a vested interest in this effort.

As a component vendor, our unique claim has always been that we offer deeper and broader frameworks than anyone else on the market. Developer education greatly helps us market and sell against competing vendors who promise to “enable AJAX support with one click,” or “turn the moon to cheese!”

Let us know what you think

If you have any topics of interest, thoughts, or feedback, please feel free to send them to us at succinctly-series@syncfusion.com.

We sincerely hope you enjoy reading this book and that it helps you better understand the topic of study. Thank you for reading.

Please follow us on Twitter and “Like” us on Facebook to help us spread the word about the *Succinctly* series!



Introduction

Adobe Systems Incorporated's Portable Document Format (PDF) is the de facto standard for the accurate, reliable, and platform-independent representation of a paged document. It's the only universally accepted file format that allows pixel-perfect layouts. In addition, PDF supports user interaction and collaborative workflows that are not possible with printed documents.

PDF documents have been in widespread use for years, and dozens of free and commercial PDF readers, editors, and libraries are readily available. However, despite this popularity, it's still difficult to find a succinct guide to the native PDF format. Understanding the internal workings of a PDF makes it possible to dynamically generate PDF documents. For example, a web server can extract information from a database, use it to customize an invoice, and serve it to the customer on the fly.

This book introduces the fundamental components of the native PDF language. With the help of a utility program called [pdftk](#) from PDF Labs, we'll build a PDF document from scratch, learning how to position elements, select fonts, draw vector graphics, and create interactive tables of contents along the way. The goal is to provide enough information to let you start building your own documents without bogging you down with the many complexities of the PDF file format.

In addition, the last chapter of this book provides an overview of the iTextSharp library (<http://itextpdf.com/>). iTextSharp is a C# library that provides an object-oriented wrapper for native PDF elements. Having a C# representation of a document makes it much easier to leverage existing .NET components and streamline the creation of dynamic PDF files.

The sample files created in this book can be downloaded here:
<https://bitbucket.org/syncfusion/pdf-succinctly/>.

The PDF standard

The PDF format is an open standard maintained by the International Organization for Standardization. The official specification is defined in [ISO 32000-1:2008](#), but Adobe also provides a free, comprehensive guide called [PDF Reference, Sixth Edition, version 1.7](#).