



PDF

Succinctly

by Ryan Hodson

PDF Succinctly

By
Ryan Hodson

Foreword by Daniel Jebaraj



Copyright © 2012 by Syncfusion Inc.

2501 Aerial Center Parkway

Suite 200

Morrisville, NC 27560

USA

All rights reserved.

I mportant licensing information. Please read.

This book is available for free download from www.syncfusion.com on completion of a registration form.

If you obtained this book from any other source, please register and download a free copy from www.syncfusion.com.

This book is licensed for reading only if obtained from www.syncfusion.com.

This book is licensed strictly for personal, educational use.

Redistribution in any form is prohibited.

The authors and copyright holders provide absolutely no warranty for any information provided.

The authors and copyright holders shall not be liable for any claim, damages, or any other liability arising from, out of, or in connection with the information in this book.

Please do not use this book if the listed terms are unacceptable.

Use shall constitute acceptance of the terms listed.


E dited by

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

Table of Contents

The Story Behind the <i>Succinctly</i> Series of Books	8
Introduction	10
The PDF standard	10
Chapter 1 Conceptual Overview	11
Header	11
Body	12
Cross-reference table	13
Trailer	13
Summary	14
Chapter 2 Building a PDF	15
Header	15
Body	15
The page tree	15
Page(s)	16
Resources.....	17
Content	18
Catalog	19
Cross-reference table	19
Trailer	19
Compiling the valid PDF	20
Header binary	20
Content stream length.....	21
Cross-reference table.....	21
Trailer dictionary	21

Summary	22
Chapter 3 Text Operators	23
The basics	23
Positioning text.....	24
Text state operators.....	25
The Tf operator	25
The Tc operator	26
The Tw operator.....	26
The Tr operator.....	27
The Ts operator	27
The TL operator	28
Text positioning operators	29
The Td operator	29
The T* operator.....	30
The Tm operator	30
Text painting operators	31
The Tj operator	32
The ' (single quote) operator	32
The " (double quote) operator	32
The TJ operator	33
Summary	34
Chapter 4 Graphics Operators	35
The basics	35
Graphics state operators	36
The w operator.....	37
The d operator	37



Essential PDF is available as a stand-alone product or as part of the Syncfusion Essential Studio package.

Features

[illegible]

Essential PDF has a simple, yet powerful, object model that can be used to create richly formatted PDF reports. The Graphics class, which is the core of the object model that is used to draw contents on a PDF page, is modeled after the .NET Graphics class. Users who are familiar with the .NET Graphics class can start working with Essential PDF without any need for further education. Essential PDF also has native support for rendering any .NET Graphics object to a PDF file.

Sophisticated Adobe PDF reporting for business applications

Essential PDF Features

Implementation

Versions	PDF files created can be viewed in all versions of Acrobat viewers
Object model	Extremely intuitive object model that ensures very quick learning
100% Managed code	Built from scratch in C#

Features

Document properties	Set document properties like author, creation date, etc.
Viewer preferences	Set document properties like hide MenuBar, hide WindowUI, etc.
Compression	Compression ensures smaller file sizes
Annotations	Insert annotations
Bookmarks	Insert bookmarks
Colors	Use web colors, RGB colors, CMYK Colors, and grayscales
Watermarks	Insert watermarks
Header / Footer	Set headers and footers
Page orientation	Set landscape or portrait orientations
Hyperlinks	Insert hyperlinks
Text rotation	Rotate text at the specified angle
Shapes	Draw shapes like line, rectangle, circle, arcs, pies, bezier curves, ellipses, etc.
Images	Supports BMP, GIF, TIFF, and JPEG formats
Soft masks	Apply soft masks
Streams	Save generated PDF documents to any IO stream
Transparent drawing	Draw transparent shapes and images
Unicode support	Create documents with Unicode content
Datatable	Import an ADO.NET data table with ease
Right to Left	Create documents with RTL support
Security	Lock documents with password
Vector images	Native support for EMF+ rendering

Implementation

Stream to browser	Stream created PDF file to browser clients
-------------------	--

System requirements: Microsoft .NET framework 1.0 or later



www.syncfusion.com