

PDF 1: File Content & Structure

PDF 1: File Content & Structure is a four-day, hands-on, technical introduction to PDF file format and structure. It discusses in detail the structure and contents of a PDF file, emphasizing those parts of the PDF specification most important to printer engineers and support personnel. It will also be a very useful introduction for software engineers who must directly generate PDF.

Objective

Students will leave class knowing how to interpret the contents of a PDF file. Printer engineers will know what their printing devices must pay attention to when printing PDF files directly. Software engineers will be able to generate PDF files from within their own software.

Prerequisites

A good technical background, including experience with a programming language. PostScript experience (the *PostScript Foundations* course or its equivalent) will be very helpful, since PostScript and PDF share an imaging model and have many concepts in common.

Audience

Engineers and advanced support personnel who need to understand the PDF file format. The course assumes you are either working with a printing device that consumes PDF or that you are a software engineer faced with generating PDF.

Sign up now!

Acumen Training teaches regularly-scheduled classes in San Juan Capistrano, California, near the Santa Ana/Orange County airport.

If your organization has four or more people who need to take PostScript Foundations, it will be cheaper to arrange a class on your site. See details on the Acumen Training website.

For class schedules and pricing, on-site class information, or to register for a class, please contact John Deubert at Acumen Training any of the following ways:

- Email: john@acumentraining.com
- Web: www.acumentraining.com
- Telephone: 949-248-1241

Course Outline

Day 1

- PDF Data Types
- PDF Objects
- PDF file format
- The Page Tree
- Content streams
- Simple drawing
- Introduction to PDF color
- Drawing text
- Coordinate transforms
- Transforming text

Day 2

- Text rendering modes
- Text parameter operators
- Graphics state stack
- Bezier Curves
- Clipping paths
- Filters
- Color & Color Spaces

Day 3

- Color and color spaces, cont'd
- Introduction to function dictionaries
- Image XObjects
- Form XObjects
- Transparency

Day 4

- Annotations
- PDF font structure
- Character encoding
- Embedding fonts
- Type 3 fonts
- Multibyte fonts
- PDF standards: PDF/X, PDF/A, etc.