Advanced pagination scenarios

In order to support requirements from transactional printing or similar high volume PDF creation processes pdfChip provides custom JavaScript functions that allow you to take full control of the PDF output process. These JavaScript functions are able to modify a basic HTML template at runtime so that pages are dynamically output for as many instances as necessary (for example based on data dynamically retrieved from a database).

pdfChip can also output other types of long documents such as books. It includes a multi-pass option for advanced pagination, supporting page numbers, running headers and context dependent page backgrounds or overlays.

Command-line processing for easy integration

pdfChip is a command-line application with a clear and easy-to-learn command line interface. It is ideally suited for use on a web server to provide dynamic PDF creation (web-to-print).

But it can just as easily be integrated in a custom application or be driven by automated solutions such as Laidback FileTrain or Enfocus Switch. With full support for multi-processor environments pdfChip is ready to tackle the most demanding scenarios.

Wide applicability across different markets

With its extensive feature set and high-quality PDF output, pdfChip is ideally suited as the back-end PDF creation solution for many different applications, amongst others:

→ Imposition and content aggregation workflows

→ Composition workflows where templates and user contents have to be combined on the fly and where printable PDF documents have to be delivered

→ On-the-fly preparation of magazine, newspaper and book content or sales literature

→ Dynamic generation of one-off content such as tickets, stubs, order data, invoices … (for example in web-to-print environments)

→ Variable data printing where templates have to be filled with data coming from a data source (such as a database or a CRM system)

→ Transactional printing workflows where transactional data needs to be combined with visually rich designs

callas

# Create high-quality PDF from HTML

pdfChip

- **Creates perfect PDF/X or PDF/A from HTML with CMYK, spot colors and more**

- **Support for HTML5, CSS3, SVG, JavaScript, MathML, advanced pagination, barcodes...**

- **Command-line interface for quick and easy integration**

callas

Based on established technology

callas pdfChip is a powerful solution to convert HTML into perfect, high-quality, print-ready PDFs. Accessible through a well-documented command line interface, pdfChip can easily be integrated in a web-to-print, self-publishing, transactional printing or any other environment where content is available in a database, as XML or HTML and needs to be converted to PDF. Rather than learning custom XML or an XSL-FO based language to specify what output you want – pdfChip takes full advantage of the power of HTML5, styling with CSS3 and optional customization using JavaScript.

CSS

3

JavaScript

JS

HTML

5

pdfChip

PDF

PDF/X

PDF/A
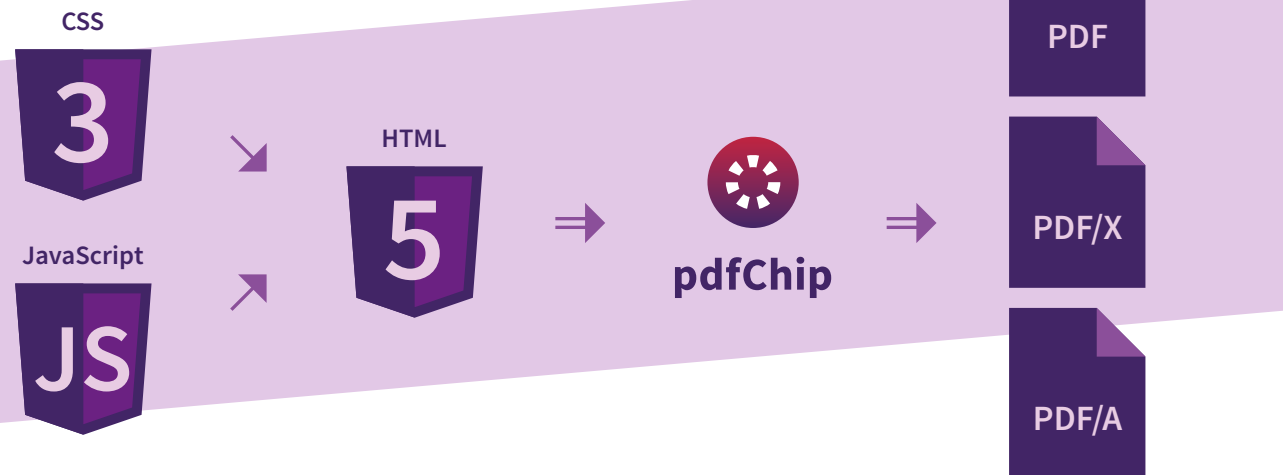
Any technology that you know from the internet is immediately applicable in pdfChip, including advanced JavaScript libraries such as JQuery for example. Because pdfChip is based on the WebKit technology, it renders your designs quickly and flawlessly into PDF.

Whether you want to include high-quality vector graphics or simply apply printer marks, the SVG support in pdfChip has your back. For smaller items SVG code can be embedded in your HTML; larger items can use referenced SVG images. The conversion from SVG to PDF is carried out without any loss of quality.

Adding advanced content

Because pdfChip is built on a first-class PDF library, it is possible to directly reference PDF files from your HTML code: an image element may use a reference to a page in a PDF file, and then that page is inserted in the newly generated PDF without loss of quality. This makes pdfChip ideal for imposition or composition of multiple PDFs.

Textbook creation and scientific publishing can take advantage of MathML support. MathML is a specification for mathematical formulas and scientific content on web pages. With a suitable JavaScript library such as MathJax, pdfChip converts MathML into beautiful PDF content.

In a world that is more and more automated, barcodes continue to take on a more prominent role. Whether one looks at movie tickets, imposed sheets or QR codes on business cards: being able to generate barcodes on the fly is essential.

Through custom HTML objects, pdfChip allows for the generation of more than 100 different types of barcodes. You can add 1D codes, stacked 2D codes and matrix 2D codes (such as QR codes) as well as composite barcodes employing multiple technologies in a single code. Full styling is possible through the use of CSS. Even advanced techniques such as bar width reduction are fully supported.

High-quality PDF generation

While extremely flexible, the internal structure of HTML code sometimes lacks of efficiency; pdfChip goes to great lengths to always output highly efficient and lean PDF code. And because callas has the leading PDF quality control and optimization software on the market, you can rest assured that the quality of the generated PDF is spotless.

If simply outputting "a" PDF file is not sufficient; pdfChip allows you to create fully compliant PDF/X files for use in print and publishing workflows or fully compliant PDF/A files for archival.

Custom XMP metadata can be created in the PDF and pdfChip also allows for using professional fonts, CMYK, spot colors, ICC-based color spaces and more. Even the specification of overprint and transparency is possible.

These additional features are available through custom HTML objects and properties and extensions to CSS3. Adding them to an HTML file is extremely easy and doesn't break W3C (World Wide Web Consortium) standards compliance.