

PDF mit Perl

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PDF::API2

- ▶ Vorteile
 - ▶ Funktionsumfang
 - ▶ Flexibilität
- ▶ Nachteile
 - ▶ API-Orientierung an PDF-Objekten
 - ▶ Dokumentation

Hallo Welt

```
$pdf = PDF::API2->new;  
  
$font = $pdf->corefont( 'Verdana' );  
$text = $page->text;  
  
$text->font( $font , 50);  
$text->translate(150, 105);  
  
$text->text_center( 'Hallo Welt' );  
  
$pdf->saveas( 'hallo_welt.pdf' );
```

Hallo Welt

Hallo Welt

Übersicht

- ▶ Text
- ▶ Bilder
- ▶ Figuren

Fonts

- ▶ Schriftart
- ▶ Schriftgröße
- ▶ Schriftfarbe

Fonts

- ▶ Core Fonts (Courier, Verdana, Helvetica, ...)
- ▶ True Type und Open Type Fonts
- ▶ Postscript Fonts
- ▶ CJK-Fonts für asiatische Schriften
- ▶ Unicode Map Fonts

Core Font

```
use PDF::API2;  
  
$pdf = PDF::API2->new;  
$font = $pdf->corefont( 'Verdana' );
```


True Type Font

```
use PDF::API2;
```

```
$pdf = PDF::API2->new;
```

```
$font = $pdf->ttrfont ( '/usr/share/fonts/truetype/gentium/GenAI102.ttf ' )
```

Fonts zwischenspeichern

- ▶ `$pdf->corefont`, `$pdf->ttrfont`, ...
- ▶ Einbetten des Fonts bei jedem Aufruf
- ▶ Große PDF-Dateien

Text mit Hintergrundfarbe

```
$pdf = PDF::API2->new;  
  
$font = $pdf->corefont( 'Verdana' );  
$text = $page->text;  
$gfx = $page->gfx;  
  
$text->font( $font , 50);  
$text->translate(150, 105);  
  
$gfx->fillcolor( 'lightgreen' );  
$gfx->rect(20, 95, 265, 60);  
$gfx->fill;  
  
$gfx->fillcolor( 'black' );  
$text->text_center( 'Hallo Welt' );  
  
$pdf->saveas( 'hallo_welt.pdf' );
```

Hallo Welt II



Text mit Hintergrundfarbe

```
$pdf = PDF::API2->new;  
  
$font = $pdf->corefont( 'Verdana' );  
$gfx = $page->gfx;  
$text = $page->text;  
  
$text->font( $font , 50);  
$text->translate(150, 105);  
  
$gfx->fillcolor( 'lightgreen' );  
$gfx->rect(20, 95, 265, 60);  
$gfx->fill;  
  
$gfx->fillcolor( 'black' );  
$text->text_center( 'Hallo Welt' );  
  
$pdf->saveas( 'hallo_welt.pdf' );
```

Hallo Welt III

Hallo Welt

Textlänge bestimmen

```
$pdf = PDF::API2->new;  
  
$font = $pdf->corefont( 'Verdana' );  
$text = $page->text;  
  
$length = $text->advancewidth( $text ,  
                                font => $font ,  
                                fontsize => 50);
```

Bilder

- ▶ PNG
- ▶ JPEG
- ▶ TIFF
- ▶ PNM
- ▶ GIF

Beispiel Bild

```
$pdf = PDF::API2->new;  
$page = $pdf->page;  
$gfx = $page->gfx;  
  
$pic = $pdf->image_png('nitesi.png');  
  
# original size  
$gfx->image($pic, 20, 100);  
  
# scaled  
$gfx->image($pic, 20, 50, 0.5);  
  
# width and height  
$gfx->image($pic, 20, 22, 156, 18);  
  
$pdf->saveas('nitesi.pdf');
```

Beispiel Bild



Auswahl Figuren

- ▶ Linien
- ▶ Kurven
- ▶ Rechtecke
- ▶ Kreise

Rechteck

```
$pdf = PDF::API2->new;  
$page = $pdf->page;  
$gfx = $page->gfx;  
  
$gfx->fillcolor( 'lightgreen' );  
$gfx->rect(20, 95, 265, 60);  
$gfx->fill;
```

Beispiel Rechteck



Rechteck mit Kreisen

```
$pdf = PDF::API2->new;  
$page = $pdf->page;  
$gfx = $page->gfx;  
  
$gfx->fillcolor( 'lightgreen' );  
$gfx->rect(20, 95, 265, 60);  
$gfx->fill;  
  
$gfx->fillcolor( 'blue' );  
$gfx->circle(30, 95, 20);  
$gfx->circle(275, 95, 20);  
$gfx->fill;
```

Beispiel Rechteck mit Kreisen



Andere Module

- ▶ CAM::PDF
- ▶ PDF::WebKit
- ▶ ...

CAM::PDF

- ▶ PDF-Struktur
- ▶ PDF-Bearbeitung
- ▶ Imports
- ▶ Tests

Import mit CAM::PDF

```
$cam = CAM::PDF->new($output);  
  
for my $file (@$input_list) {  
    $cam_import = CAM::PDF->new($file);  
    $cam->appendPDF($cam_import);  
}  
  
$cam->deletePage(1);  
$cam->cleanoutput($output);
```

PDF::WebKit

- ▶ Konvertierung mit der WebKit-Engine
- ▶ wkhtmltopdf Kommandozeile
- ▶ HTML als String, Datei oder URL

HTML als String

```
use PDF::WebKit;  
  
my $kit = PDF::WebKit->new(\ $html );  
  
$output = $kit->to_pdf;
```

URL

```
use PDF::WebKit;
```

```
my $url = 'http://www.csszengarden.com/?cssfile=/207/207.css&page=0';  
my $kit = PDF::WebKit->new($url);
```

```
$output = $kit->to_pdf;
```

A demonstration of what can be accomplished visually through CSS-based design. Select any style sheet from the list to load it into this page.

The Road to Enlightenment

Litaring a dark and dreary road by the past relics of browser-specific tags, incompatible DOEs, and broken CSS support.

Today we must clear the mind of past practices. Web enlightenment has been achieved thanks to the tireless efforts of folk like the W3C, WebSP and the major browser creators.

The zen Zen Garden invites you to relax and meditate on the important lessons of the masters. Begin to see with clarity. Learn to use the (yet to be) time-honored techniques in new and invigorating fashion. Become one with the web.

So What is This About?

There is clearly a need for CSS to be taken seriously by graphic artists. The Zen Garden aims to excite, inspire, and encourage participation. To begin, view some of the existing designs in the list. Clicking on any one will load the style sheet into this very page. The code remains the same, the only thing that has changed is the external .css file. Yes, really.

CSS allows complete and total control over the style of a hypertext document. The only way this can be illustrated is a way that gets people excited is by demonstrating what it can truly do, once the reins are placed in the hands of those able to create beauty from structure. To date, most examples of neat tricks and hacks have been demonstrated by structureists and coders. Designers have yet to make their mark. This needs to change.

Participation

Graphic artists only please. You are modifying this page, so strong CSS skills are necessary, but the example files are commented well enough that even CSS novices can use them as starting points. Please see the CSS Resource Guide for advanced tutorials and tips on working with CSS.

You may modify the style sheet in any way you wish, but not the HTML. This may seem daunting at first if you've never worked this way before, but follow the listed links to learn more, and use the sample files as a guide.

Download the sample [html](#) file and [css](#) file to work on a copy locally. Once you have completed your masterpiece (and please, don't turn back finished work) upload your [css](#) file to a web server under your control. Send us a link to the file and if we choose to use it, we will update the associated images. First submissions will be placed on our server.

Benefits

Why participate? For recognition, inspiration, and a resource we can all refer to when making the case for CSS-based design. This is overly needed, even today. More and more major sites are taking the leap, but not enough have. One day this gallery will be a historical curiosity, that day is not today.

Selected Design

- Under the Star by Eric Stolt
- Wise We Proud by Michael
- At Agiles and Society
- Multi Beauty by Kevs
- Adrian
- Download by Julie Gray
- CSB Co., Ltd. by Benjamin
- Stark by Toruoka Uchida
- Lytle Forest by John
- Walk in the Garden by Simon Van

Archives

- view designs +
- view All Designs

Resources

- view This Design's CSS
- CSS Resources
- FAQ
- Submit a Design
- Howto's

PDF::WebKit Nachteile

- ▶ “Statisches” Programm
- ▶ Einschränkungen Debianpaket
- ▶ Seitenumbruch

PDF::Create, PDF::Reuse, ...

- ▶ PDF::Create
- ▶ PDF::Reuse
- ▶ PDF::Table *
- ▶ PDF::Boxer *
- ▶ PDF::TextBlock *
- ▶ PDF::FromHTML

Einsatzbeispiele

- ▶ Versandaufkleber
- ▶ Rechnungen
- ▶ Report

Zum Schluß

Folien `http://www.linuxia.de/talks/hhmongers2012/pdfperl-beamer.pdf`

Questions ???