

# **DynaPDF 4.0**

## **for PHP 5.2 or higher**

### Installation Guide & API Description

DynaPDF API Version 4.0.77

February 14, 2024

Please note that this product has reached the end of its life cycle. The extension will still be compiled with the latest DynaPDF version till the end of 2023, but no new features will be added anymore. Consider updating to PHP 7 or 8 if possible.

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## Preface

This document describes how DynaPDF for PHP can be installed and compiled, as well as important differences in comparison to the regular DynaPDF versions.

The generic term DynaPDF applies to the following products:

- DynaPDF Starter
- DynaPDF Lite
- DynaPDF Professional
- DynaPDF Enterprise

The DynaPDF PHP Extension can be used with all versions listed above. The available feature set depends on the used license type. Pre-compiled binaries are available for Windows and Linux.

## Requirements

In order to load a PHP extension on a web server, the following requirements must meet:

- PHP 5.2 or higher.
- Since PHP 5.3 `dl()` is disabled in most SAPIs, you need access to the `PHP.ini` in order to load the extension.
- If PHP is installed as an Apache module, then you need administrator privileges to enable the extension in the `PHP.ini` and the web server must be restarted afterwards.
- If no pre-compiled extension is available for your PHP version or operating system, you need also Visual Studio 6 or higher on Windows for PHP 5.2, or Visual Studio 2008 for PHP 5.3 or higher, or a properly installed GCC for other operating systems.

The extension is delivered with source codes so that you can compile it for every PHP version greater or equal 5.2 (see chapter "[How to compile the extension?](#)").

PHP Extensions are not binary compatible to other PHP versions. That means an extension compiled for PHP 5.3 does not work with PHP 5.4 or vice versa.

## Limited Windows Compatibility

Extensions for PHP 5.3 or higher must be built with Visual Studio 2008 since the pre-compiled PHP binaries were compiled with this compiler and the compiler version is now part of the version check of a PHP Extension.

However, adding dependencies to a specific compiler version is the worst thing one can do since it results in a huge overhead if the compiler version will be changed some day.

We do not follow this practice and compile the extension currently with Visual Studio 6 to avoid an additional dependency to the Visual Studio Redistributable Package.

Since the extension wouldn't be loadable with the pre-compiled PHP binaries, the define `ZEND_BUILD_SYSTEM` was manually changed in the header file `/Zend/zend_build.h` to `"VC9"`.

Although there are no known issues at this time, there is no guarantee that the extension is fully compatible with pre-compiled PHP binaries which can be downloaded from the PHP website.

We assume that the Windows versions are mainly used for test purposes, so, this should be no problem. However, on a production machine the extension should either be compiled with Visual Studio 2008 or the PHP binaries and the extension should be compiled with the same compiler.

## Installation

The PHP Extension is a shared library on Linux or dynamic link library (DLL) on Windows. The name of the library is `php_dynapdf.dll` on Windows and `dynapdf.so` on Linux. You find the libraries in the folder *ext* of the download package.

- Copy the library into the */ext* folder of your PHP installation or into the path that was configured in the `PHP.ini` (`extension_dir`).
- Enable the extension in the `PHP.ini` with:  
`extension=php_dynapdf.dll` (Windows)  
**or**  
`extension=dynapdf.so` (Linux)

Dynamic loading of PHP extensions is disabled in most SAPIs and no longer recommended.

DynaPDF is implemented as a class module. The name of the class is (lowercase) `dynapdf`. All functions and constants are bound on the class `dynapdf`. No global functions or constants are used which could conflict with other extensions.

## Apache Module versus FastCGI

Most pre-defined setups install PHP as Apache module. Although this type of installation is very simple, Apache modules have many drawbacks in comparison to FastCGI. The main disadvantages are: PHP is executed with the Apache user and in the Apache address space.

If the PHP process crashes due to an arbitrary error, then Apache dies too and the website is offline. In addition, files created with PHP scripts (including PDF files), cannot be deleted by a FTP user since the Apache user is the owner of these files.

If PHP is installed as FastCGI module, then PHP is executed in a separate process that doesn't affect the Apache process when it crashes. The PHP process is simply restarted on the next request and the web site stays online.

The PHP process can also be executed with a FTP user account. This solves the owner problem of files which were created with PHP and every user can use its own `PHP.ini`. Since the Apache user is no longer used, it is also possible to apply independent user rights.

Such an installation is very safe, independent of the programming skill of the web developer. Another advantage is that the extension can be updated without restarting the web server.

That is the reason why most web hosting providers install PHP as FastCGI module. It is some more work, but the benefits outweigh.



# How to compile the PHP extension?

The build process for DynaPDF Professional and DynaPDF Enterprise is identically, but both packages contain different Visual Studio workspaces.

## ***Build Process on Windows***

Download the normal DynaPDF for Windows package or DynaPDF Enterprise and extract or install it on your system, depending on the version you have downloaded (zip archive or msi installer).

Download the sources of the wished PHP version from <http://php.net/downloads.php> and extract it into the DynaPDF directory.

Download also the corresponding pre-compiled multi-threaded package of PHP for Windows (32 bit x86). We need the **php5ts.lib** from this package. Extract the library into the PHP source directory. The library must be stored in the subfolder /dev.

The directory structure should now look as follows:

```
dynapdf
/bin
/borland_lib
/examples
/include
/php_module // Source codes of the PHP Extension
/php-5.x.x  // PHP sources (must be renamed to php-src)
/dev       // This directory must contain the php5ts.lib
/win32
/..        // More directories follow
```

- Rename the PHP source directory to php-src.
- Go into the directory php\_module.
- Open the Visual Studio 6 or VS 2005 workspace depending on which version matches best your Visual Studio version.

For PHP 5.3 or higher Visual Studio 2008 is required if the extension should be usable with a pre-compiled PHP version for Windows. Although it is not officially supported, another compiler can still be used. Open the file /php-src/Zend/zend\_build.h and set the ZEND\_BUILD\_SYSTEM to "VC9". This change makes it possible to load the extension but there is no guarantee that it is fully compatible with the pre-compiled PHP binaries. For best compatibility, PHP should be compiled with the same compiler too.

- Select the configuration "Release MDLL" in Visual Studio and compile the library. You find the php\_dynapdf.dll in the directory *Release* after successful compilation. The workspace creates a 32 bit library.

## **Additional note for DynaPDF Professional:**

The php\_dynapdf.dll depends on the dynapdfm.dll which must be copied into Windows/System32 (32 bit Windows) or Windows/SysWOW64 on a 64 bit machine. If you use VS 2005 or higher for compilation, then the resulting library depends also on the Visual Studio Redistributable Package of the used VS version.

The `php_dynapdf.dll` must be copied into the `/ext` folder of your PHP installation or into the directory that was configured in the `PHP.ini` (`extension_dir`).

The dependency to the `dynapdfm.dll` does not exist if the library was compiled with DynaPDF Enterprise since these workspaces link the DynaPDF library statically. The pre-compiled library does **not** depend on the `dynapdfm.dll`.

## ***Build Process on Linux / Unix***

Install PHP and the development tools on your machine. On CentOS 6.3, for example, this can be done with the following commands:

```
sudo yum install "Development Tools" // Install GCC and the build tools
sudo yum install php 5.4 // Install PHP 5.4 for example
sudo yum install php-devel 5.4 // Install the header files and build tools
```

If the above commands fail then you must maybe update the package manager. Depending on the used Linux distribution the commands are slightly different.

In most cases another machine is used to compile a PHP extension. Important is that the PHP version on the web server and the one on the development machine use the same API version. The API version is changed with every minor version. For example, PHP 5.2 and 5.3 use both different API numbers but the build version can be ignored, e.g. PHP 5.5.16 and PHP 5.5.21 use both the same API number.

## ***phpfarm***

If you need to work with different PHP versions then we strongly recommend `phpfarm`. `phpfarm` is a set of command line tools which enable the usage of different PHP versions on the same system. Almost every PHP version can directly be downloaded and compiled with just one command, e.g. `compile.sh 5.4.35`. To activate a specific version call `switch-phpfarm` followed by the version number that should be activated, e.g. `switch-phpfarm 5.4.35`.

One thing that must be considered is that the `--enable-debug` flag is hardcoded in the `compile.sh`. This flag should be deleted and added to the `options.sh` or `custom-options.sh` if needed.

`phpfarm` is available at GitHub (<https://github.com/cweiske/phpfarm>).

## ***Build process for DynaPDF Professional***

- Download the sources of the PHP extension and a DynaPDF version that is compatible with your operating system, e.g. DynaPDF for Linux x86. Decompress both packages in the same directory.
- Open the directory `dynapdf/dynapdf` and delete the `libdynapdf.so` or rename the library. The shared library takes precedence in the configure script. If the shared library is present then this one will be linked. Static linking is preferred to avoid unnecessary dependencies.
- Open the directory `php_module` now in a terminal window.
- Type `./confrel` and press enter. If the file cannot be executed then change the access permissions with `chmod` to `777`.

- The library will now be compiled. The finish library can be found in the directory *dynapdf/php\_module/modules*.
- Copy the library on your web server, finished.
- With `./clean` you can clean up the build directory. Note that this command deletes also the modules directory!

If you get linker errors with the static library of DynaPDF then use the shared library instead. The PHP extension depends then of course on the `libdynapdf.so`. The library must be copied into a `LD_LIBRARY` path in this case so that it can be loaded on the web server.

Note that it is no bug if the static library cannot be linked. Static linking works only if the same GCC version is installed on your machine as the one that we used to compile the library. This is due to dependencies to certain system libraries like the `libc` which must be available in the same version. With which version DynaPDF was compiled can be seen in the download area.

### ***Build process for DynaPDF Enterprise***

- Extract the DynaPDF Enterprise package and open the directory `dynapdf_ent/php_module` in a terminal window.
- Type `./confrel` and press enter. If the file cannot be executed then change the access permissions with `chmod` to `777`.
- The above command compiles DynaPDF and the PHP Extension. The finish library can be found the directory *dynapdf\_ent/php\_module/modules*.
- Copy the library on your web server, finished.
- With `./clean` you can clean up the build directory. Note that this command deletes also the modules directory!

## **Error Handling**

The PHP extension passes error messages and warnings to the PHP engine by default. Depending on the settings in the `PHP.ini`, the messages are either output directly on the website or in the PHP error log. The extension does not use PHP exceptions.

The error handling can be modified if necessary:

- Syntax errors, like invalid or missing parameters, are always handled by the PHP engine since such errors are handled before any DynaPDF function will be executed.
- All (DynaPDF) error messages can be redirected to the error log (see `SetErrorMode()` for further information). In this case, error messages can be accessed with `GetErrLogMessageCount()` / `GetErrLogMessage()`.
- You can set an error callback function with `SetOnErrorProc()`. DynaPDF error messages are passed to the callback function in this case.

Note that error messages cannot be output on the website if the PDF file should be sent to the client since the error messages would be output before the PDF file. If the http headers are already sent then the error messages are stored in the file that the user tries to download! To avoid such issues, the option `display_errors` must be set to `Off` in the `PHP.ini` or manually disabled in a download script.

## String Formats

The default string format in the PHP extension is UTF-8 for all strings. However, it is also possible to work with code pages, although this is mostly not required. To disable UTF-8 processing call:

```
$pdf->DisableUTF8Support( );
```

Functions like WriteText(), WriteFText() or AddContinueText() treat the string parameter now as 8 bit string defined in the code page of the used font. The code page was set in the SetFont() function call.

All other functions, which do not use a font, treat strings now as Ansi strings defined in the Windows code page 1252, with exception of file paths on non-Windows machines. On non-Windows machines file paths are always treated as UTF-8 Unicode.

To enable UTF-8 processing again, call EnableUTF8Support(). You can enable or disable UTF-8 support arbitrary often. These functions are very fast and cause no overhead.

Note that you can still work with code pages when UTF-8 processing is enabled. The overhead is very small. It is mostly not required to disable the UTF-8 string format. This should only be done if a source string is defined in a specific code page and to avoid an unnecessary conversion to UTF-8.

**Note that UTF-8 support affects only string parameters which are passed to DynaPDF. Strings which are returned by DynaPDF are always returned in UTF-8 Unicode format!**

## API Differences

Most functions in PHP are identically defined in comparison to the C or C++ interface but a few functions are differently implemented. Differently implemented are all functions which use parameters by reference to return certain values, including functions which return structures.

- The PHP extension does not use or access parameters by reference. Multiple values are returned as array instead.
- Enums are defined as class constants in PHP. The constants can be accessed with the class name, e.g. `dynapdf::ConstName`.
- ALL strings (except binary strings) are returned in UTF-8 Unicode format. Structures which contain members for the string length or string format in C/C++ are omitted in PHP since the length of a PHP string is always defined and the returned string format is always UTF-8.
- Functions which have an additional parameter for a string length, like `WriteTextEx()`, are either not implemented, if another version of the same function exists with no length parameter, like `WriteText()` for example, or they have no length parameter in PHP. PHP strings have already an implicit length. There is no need to explicitly define a length as in other programming languages like C or C++.
- Structures are returned as associative PHP arrays. All functions which return structures return NULL on failure or if no value is defined. The keys are set in the same order as defined in the C structure. Keys with no value are omitted.

Example:

```
...
$bbox = $pdf->GetBBox(dynapdf::pbMediaBox);
if ($bbox)
{
    $left    = $bbox['Left'];
    $right   = $bbox['Right'];
    $bottom  = $bbox['Bottom'];
    $top     = $bbox['Top'];
}
...
```

- The PHP extension contains no Ansi or Wide string versions of functions which accept string parameters, since all string parameters are either defined as UTF-8 or Ansi, depending on the used string format (see section [String Formats](#)).
- If a structure contains an Ansi and Wide string key for the same value, e.g. `ValueA` and `ValueW`, then the value is set to the natural key name without the ending 'A' or 'W' ('Value' in this example).

## Safe Pointers

Several DynaPDF functions return normally a pointer but pointers cannot be used in PHP since pointers are unsafe.

Functions which return a pointer in C/C++ return a safe pointer in PHP. A safe pointer is an integer hash that encodes the original pointer and the pointer type in a 32 bit integer value. The hashes and the original pointers are stored in a list.

Whenever a safe pointer is passed to a DynaPDF function, and if it is not 0, then a search routine tries to find the pointer in the list, and if it can be found, then it checks whether the requested pointer type matches the pointer type that was stored in the list. If anything is ok then the DynaPDF function will be executed.

This makes it impossible to modify a safe pointer in a way that a bad pointer access could occur. It is also impossible to pass a wrong pointer type to a function since the type is encoded in the hash.

A safe pointer uses the entire integer range. That means it can be positive or negative. A NULL pointer represents the integer value 0. If a pointer should be set to NULL then pass the integer value 0 or NULL to the function.

The internal pointer list is released whenever the corresponding PDF objects will be released. This is the case when the PDF file is closed with `CloseFile()` for example, or if you call `FreePDF()`, or if the PDF instance will be released.

After such a function was called, all previously returned safe pointers become invalid. Any try to use such a pointer results in an error message but nothing critical happens.

# PHP Specific Functions

## ***DisableUTF8Support (PHP specific)***

Syntax:

```
void DisableUTF8Support ( )
```

The function can be used to disable UTF-8 support for string parameters.

Functions like WriteText(), WriteFText() or AddContinueText() treat the string parameter now as 8 bit string defined in the code page of the used font. The code page was set in the SetFont() function call.

All other functions, which do not use a font, treat strings now as Ansi strings defined in the Windows code page 1252.

To enable UTF-8 processing again, call EnableUTF8Support(). You can enable or disable UTF-8 support arbitrary often. These functions are very fast and cause no overhead.

## ***EnableUTF8Support (PHP specific)***

Syntax:

```
void DisableUTF8Support ( )
```

The function enables UTF-8 support for string parameters if it was previously disabled.

## ***GetAPIVersion***

Syntax:

```
int GetAPIVersion ( )
```

The function returns the API version of the PHP Extension as an integer value, e.g. 1003 for the API version 1.0.0.3. The API version is always incremented if something was changed or if new features were added.

The API version of the PHP Extension and the API version of the DynaPDF library are independent from each other. The API version does not necessarily change when the extension is updated to the actual DynaPDF version. If no new feature was added then the API version remains as is.

## ***GetBufSize***

Syntax:

```
int GetBufSize ( )
```

The function returns the size of the PDF file if it was created in memory. The function can be called before the buffer is send to the client with [WriteBuffer\(\)](#) so that the http header Content-Length can be filled in.

**Return values:**

If the function succeeds the return value is the length of the PDF file in bytes. If the function fails the return value is zero.

## ***GetImageBufSize***

Syntax:

```
int GetImageBufSize()
```

The function returns the size of the image file if it was created in memory. The function can be called before the buffer is send to the client with [WriteImageBuffer\(\)](#) so that the http header Content-Length can be filled in.

### **Return values:**

If the function succeeds the return value is the length of the image file in bytes. If the function fails the return value is zero.

## ***TestCallback (PHP specific)***

Syntax:

```
void TestCallback(TCallbackFuncs Param)

const cbfAll                = 0;  // Fire all
const cbfOnErrorProc        = 1;  // SetOnErrorProc()
const cbfOnFontNotFoundProc = 2;  // CheckConformance()
const cbfOnInitProgressProc = 4;  // SetProgressProc()
const cbfOnPageBreakProc    = 8;  // SetOnPageBreakProc()
const cbfOnProgressProc     = 16; // SetProgressProc()
const cbfonReplaceICCProfileProc = 32; // CheckConformance()
```

The function can be used to check whether callback functions work as expected. The integer constants can be combined with a binary or operator. If all currently defined callback functions should be fired set the parameter to cbfAll or 0.

It is no error in PHP if a callback function contains more or less parameters as specified.

If a function must return something while it does not, or if it returns a wrong data type then TestCallback() throws an error. If no error messages are output then anything is ok.

Example:

```
function InitProgressProc($ProgType, $MaxCount)
{
    echo '<p>ProgType: '.$ProgType.'</p>';
    echo '<p>MaxCount: '.$MaxCount.'</p>';
}

// This callback function must return an integer value.
// TestCallback() throws as error for this function.
function ProgressProc($ActivePage)
{
    echo '<p>ActivePage: '.$ActivePage.'</p>';
}

$pdf->SetProgressProc('InitProgressProc', 'ProgressProc');

// Check whether the callback functions work as expected
$pdf->TestCallback($pdf::cbfAll);
```



## ***WriteBuffer***

Syntax:

```
void WriteBuffer( )
```

The function outputs the buffer of a PDF file that was created in memory. WriteBuffer() is more efficient in comparison to [GetBuffer\(\)](#) since it outputs the buffer directly. GetBuffer() must create a copy of the already existing buffer. This is inefficient and wastes memory.

The function can be called after CloseFile() or CloseFileEx() since the buffer does not exist before the file was closed.

The function [GetBufSize\(\)](#) returns the size of the PDF buffer.

## ***WriteImageBuffer***

Syntax:

```
void WriteImageBuffer( )
```

The function outputs the buffer of an image that was created in memory. WriteImageBuffer() is more efficient in comparison to [GetImageBuffer\(\)](#) since it outputs the buffer directly. GetImageBuffer() must create a copy of the already existing buffer. This is inefficient and wastes memory.

The function [GetImageBufSize\(\)](#) returns the size the image buffer.

## Differently implemented functions

This chapter describes most but not all functions, which are differently implemented in comparison to C or C++. Only functions are listed which require some more explanation.

Note that only the differences are described here. The definition of data types or how certain functions can be used is described in the DynaPDF help file.

### ***AddBookmarkEx2***

Syntax:

```
int AddBookmarkEx2(
    $Title,      // Title of the bookmark (string)
    $Parent,     // Parent bookmark if any or -1 for a root node (int)
    $NamedDest,  // Name of a named destination (string)
    $Open)       // Open or close the node? (bool)
```

The parameter *Unicode* is omitted since the string format is always UTF-8 Unicode or Ansi.

### ***AddDeviceNProcessColorants***

Syntax:

```
bool AddDeviceNProcessColorants(
    $DeviceNCS, // Handle of a DeviceN or NChannel color space (int)
    $Colorants, // Array of colorant names (array of strings)
    $ProcessCS, // Process color space (int)(TExtColorSpace)
    $Handle)    // Color space handle or -1 (int)
```

The array length of the *Colorants* array is already implicitly defined in PHP.

### ***AddDeviceNSeparations***

Syntax:

```
bool AddDeviceNSeparations(
    $DeviceNCS, // Handle of DeviceN or NChannel color space (int)
    $Colorants, // Array of colorant names (array of strings)
    $SeparationCS) // Array of Separation color space handles (int)
```

The *Colorants* and *SeparationCS* arrays must contain the same number of elements. The parameter *NumColorants* is omitted since the array length is implicitly defined in PHP.

### ***AddHeaderFooter***

Syntax:

```
bool AddHeaderFooter(
    $Init,      // Array -> TPDFHeaderFooter (can be NULL)
    $SHFArray) // Required -> Array of Array -> TPDFHdrFtr array
```

The usage of this function is a bit easier in PHP since no call of *InitHeaderFooter()* is required, and nothing special needs to be initialized before the function can be called.

The parameter *\$Init* must be an array of key / value pairs. The following keys are defined:

```
FirstPage    // int
Flags        // int    -> TPDFHdrFtrFlags
InitColor    // int
InitCS       // int    -> TExtColorSpace
InitCSHandle // int
InitDate     // string
InitCodepage // int    -> TCodepage
InitEmbed    // bool
InitFont     // string
InitFontSize // double
LastPage     // int
Margin       // array -> TFltRect
```

Only keys which differ from the default initialization should be set. If nothing needs to be changed pass NULL or an empty array as first parameter to the function.

The second parameter must be defined as array of array, also if only one header or footer should be output.

The following keys are defined:

```
Color        // int
CS           // int    -> TExtColorSpace
CSHandle     // int
Codepage     // int    -> TCodepage
Embed        // bool
Font         // string
FontSize     // double
IsHeader     // bool
Position     // int    -> TTextAlign
ShiftX       // double
ShiftY       // double
Text         // string -> Required
```

With exception of *Text*, all keys are optional. Only keys with a value should be set.

Example:

```
...
// Margin is defined as TFltRect in C/C++. The order of the members
// are Left, Bottom, Right, Top.
$init = array("Margin" => array(50.0, 20.0, 50.0, 30.0));
// Note that the parameter $HFArray must be defined as array of array.
// For better understanding the example defines two header strings.
// Header / footer values can be defined in arbitrary order.
$hf    = array(0 => array("Text" => "<<Page 1 of n>>",
                        "Position" => dynapdf::taRight,
                        "IsHeader" => true),
              array(1 => array("Text" => "<<yyyy/mm/dd>>",
                        "Position" => dynapdf::taCenter,
                        "IsHeader" => true)));

$pdf->AddHeaderFooter($init, $hf);
...
```

## **AddInkList**

Syntax:

```
bool AddInkList(  
    $InkAnnot, // Handle of the Ink annotation (int)  
    $Points)   // array of double
```

The *Points* array is defined as array of double in PHP. The array must contain x/y coordinate pairs.

## **AddMaskImage**

Syntax:

```
bool AddMaskImage(  
    $BaseImage, // int  
    $Buffer,    // Binary string  
    $Stride,    // int  
    $BitsPerPixel, // int  
    $Width,     // int  
    $Height)    // int
```

The C or C++ version contains an additional parameter *BufSize* which is omitted in PHP.

## **CalcPagePixelSize (Rendering Engine)**

Syntax:

```
array CalcPagePixelSize(  
    $PageNum, // Page number (int)  
    $DefScale, // Scaling type (int)(TPDFPageScale)  
    $Scale,    // Scaling factor (if DefScale = psFitZoom)(double)  
    $FrameWidth, // Width of the output rectangle (int)  
    $FrameHeight, // Height of the output rectangle (int)  
    $Flags)     // Additional flags (int)(TRasterFlags)
```

The C or C++ version of the function contains two additional out parameters *Width* and *Height*. In addition, the first parameter is normally a pointer of the page object.

In PHP, the first parameter is the page number. The first page is denoted by 1.

The function returns an associative array with integer values for the Width and Height or NULL on failure.

Example:

```
$val = $pdf->CalcPagePixelSize(1, dynapdf::psFitBest, 1.0, 800, 600,  
                               dynapdf::rfDefault);  
if ($val)  
{  
    $width  = $val['Width'];  
    $height = $val['Height'];  
}
```

## CMYK

Syntax:

```
int CMYK(
    $c, // int (0..255)
    $m, // int (0..255)
    $y, // int (0..255)
    $k) // int (0..255)
```

The function converts CMYK values to one integer value. The function does exactly the same as the PDF\_CMYK() macro of the C interface. The resulting value can be passed to functions which accept CMYK colors in integer format. CMYK colors use the entire integer range.

This function can only fail if one or more parameters are missing. If the function fails the return value is NULL and an error message is passed to the PHP engine.

## CheckConformance

Syntax:

```
int CheckConformance(
    $Type, // int (TConformanceType)
    $Options, // int (TCheckOptions)
    callback $OnFontNotFound, // can be NULL, see below
    callback $OnReplaceICCPProfile) // can be NULL, see below

// The function must return an integer value, typically the return
// value of ReplaceFont() or ReplaceFontEx() or -1 to break
// processing.
function OnFontNotFoundProc(
    $PDFFont, // Safe pointer
    $FontName, // string
    $Style, // int (TFStyle)
    $StdFontIndex, // int
    $IsSymbolFont) // bool

// The function must return an integer value, typically the return
// value of ReplaceICCPProfile().
function TOnReplaceICCPProfile(
    $Type, // int (TICCPProfileType)
    $ColorSpace) // int
```

The parameter *UserData* is omitted in PHP.

## CreateDeviceNColorSpace

Syntax:

```
int CreateDeviceNColorSpace(
    $Colorants, // Array of colorant names (required)
    $PostScriptFunc, // Postscript calculator function (string)
    $Alternate, // Alternate color space (int)(TExtColorSpace)
    $Handle) // Handle of the alternate color space or -1
```

The parameter *NumColorants* is omitted since the array length is implicitly defined in PHP.

## CreateExtGState

Syntax:

```
int CreateExtGState(array $GS)
```

The creation of an extended graphics state is a bit easier in comparison to other programming languages since no structure must be initialized before the function can be called.

Add only key / value pairs to the array which should be modified!

The following keys can be defined:

```
AutoStrokeAdjust // bool or int (0 or 1)
BlendMode        // int (TBlendMode)
FlatnessTol      // double (0.0 .. 1.0)
OverPrintFill    // bool or int (0 or 1)
OverPrintStroke  // bool or int (0 or 1)
OverPrintMode    // bool or int (0 or 1)
RenderingIntent  // int (TRenderingIntent)
SmoothnessTol    // double (0.0 .. 1.0)
FillAlpha        // double (0.0 .. 1.0)
StrokeAlpha      // double (0.0 .. 1.0)
AlphaIsShape     // bool or int (0 or 1)
TextKnockout     // bool or int (0 or 1)
SoftMaskNone     // bool or int (0 or 1)
SoftMask         // Safe pointer returned by CreateSoftMask()
```

Example:

```
...
$gs = $pdf->CreateExtGState(array('FillAlpha' => 0.5));
$pdf->SetExtGState($gs);
```

## CreateSetOCGStateAction

Syntax:

```
int CreateSetOCGStateAction(
    $On,           // Array of OCG handles which should be set to On
    $Off,          // Array of OCG handles which should be set to Off
    $Toggle,       // Array of OCG handles which should toggle the state
    $PreserveRB)   // Preserve radio button relationships if any? (bool)
```

The parameters to define the number of array values are omitted since the array length is implicitly defined in PHP.

## EnumHostFonts

Syntax:

```
array EnumHostFonts()
```

The function returns an array of arrays and it has no parameters as in other programming languages. If no host fonts are available, the return value is NULL.

The sub arrays contain the parameters which are normally passed to a callback function. The arrays contain the following key / value pairs:

Example:

```
for ($i = 0; $i < count($retval); $i++)
{
    $val = &$retval[$i];
    echo $val['FamilyName']."\n";    // string
}
```

```

    echo $val['PostScriptName']."\n"; // string
    echo $val['Style']."\n\n";        // int (TFStyle)
}

```

## ***EnumHostFontsEx***

Syntax:

```
array EnumHostFontsEx( )
```

The function returns an array of arrays and it has no parameters as in other programming languages. If no host fonts are available, the return value is NULL.

The sub arrays contain the parameters which are normally passed to a callback function. The arrays contain the following key / value pairs:

Example:

```

for ($i = 0; $i < count($retval); $i++)
{
    $val = &$retval[$i];
    echo $val['FamilyName']."\n";      // string
    echo $val['PostScriptName']."\n";  // string
    echo $val['Style']."\n";           // int (TFStyle)
    echo $val['BaseType']."\n";        // int (TFontBaseType)
    echo $val['Flags']."\n";            // int (TEnumFontProcFlags)
    echo $val['FilePath']."\n\n";      // string
}

```

## ***EnumDocFonts***

Syntax:

```
array EnumDocFonts( )
```

The function returns an array of arrays and it has no parameters as in other programming languages. If no fonts are actually used, the return value is NULL.

The sub arrays contain the parameters which are normally passed to a callback function. The arrays contain the following key / value pairs:

```

PDFFont      // int (safe pointer)
Type          // int (TFontType)
BaseFont      // string
FontName      // string
Embedded      // bool
IsFormFont    // bool
Flags         // int

```

## ***ExtractText***

Syntax:

```

string ExtractText(
    $PageNum, // int
    $Flags,    // int (TTextExtractionFlags)
    $Area)     // Optional -> array

```

The function returns the text of a page. The parameter *Area* is optional. It must be defined as an array of four numbers if set.

## ***FileAttachAnnotEx***

Syntax:

```
int FileAttachAnnotEx(
```

```

$PosX,      // double
$PosY,      // double
$Icon,      // int (TFileAttachIcon)
$FileName,  // string (required)
$Author,    // string or NULL
$Desc,      // string or NULL
$Buffer,    // binary string
$Compress) // bool

```

The parameter *BufSize* of the C version is omitted because the buffer length is already implicitly defined in PHP.

## Get3DAnnotStream

Syntax:

```

array Get3DAnnotStream(
    $Handle) // int

```

The function returns the data stream and SubType as an associated array. The following key / value pairs are defined:

```

Data      // binary string
SubType   // string
Result    // boolean

```

## GetAnnotEx

Syntax:

```

array GetAnnotEx(
    $Handle) // Annotation handle (int)

```

The function returns the structure TPDFAnnotationEx as an associative array on success or NULL on failure.

The following key / value pairs are defined:

```

Type           // int (TAnnotType)
Deleted        // bool
BBox           // array (Left, Bottom, Right, Top)
BorderWidth    // double
BorderColor    // int
BorderStyle    // int (TBorderStyle)
BackColor      // int
Handle         // int
Author         // string
Content        // string
Name           // string
Subject        // string
PageNum        // int
HighlightMode  // int (THighlightMode)
DestPage       // int
DestPos        // array (Left, Bottom, Right, Top)
DestType       // int (TDestType)
DestFile       // string
Icon           // int
StampName      // string
AnnotFlags     // int (TAnnotFlags)
CreateDate     // string
ModDate        // string
Grouped        // bool
Open           // bool
Parent         // int
PopUp          // int

```



```

State          // string
StateModel     // string
EmbeddedFile   // int
Subtype        // string
MarkupAnnot    // bool
Opacity        // double

```

Only keys with a value will be returned.

## ***GetBarcodeDict***

Syntax:

```

array GetBarcodeDict(
    $IBarcode) // Safe pointer

```

The function returns the key / value pairs of the structure TPDFBarcode as an associative array on success or NULL on failure. Note that only one key is returned for the members CaptionA and CaptionW. The key is 'Caption' and the value is returned in UTF-8 Unicode format if set.

## ***GetBBox***

Syntax:

```

array GetBBox(
    $Boundary) // (int)(TPageBoundary)

```

The function returns the structure TPDFRect as an associative array on success or NULL on failure or if the bounding box is not set.

## ***GetBookmark***

Syntax:

```

array GetBookmark(
    $Handle) // Bookmark handle (int)

```

The function returns the structure TBookmark as an associative array on success or NULL on failure. A bookmark handle is an array index in the range 0 through GetBookmarkCount() -1.

The following keys are defined

```

Color      // int
DestPage   // int
DestPos    // array (Left, Bottom, Right, Top)
DestType   // int (TDestType)
Open       // bool
Parent     // int
Style      // int (TBmkStyle)
Title      // string

```

## ***GetBookmarkEx***

```

array GetBookmarkEx(
    $Handle) // Bookmark handle (int)

```

The function returns the structure TPDFBookmark as an associative array on success or NULL on failure. A bookmark handle is an array index in the range 0 through GetBookmarkCount() -1.

The following keys are defined

```

Action      // int

```

```

Color          // int
DestPage       // int
DestPos        // array (Left, Bottom, Right, Top)
DestType       // int (TDestType)
NamedDest      // string
Open           // bool
Parent         // int
StructElem     // safe pointer
Style          // int (TBmkStyle)
Title          // string

```

## ***GetBuffer***

Syntax:

```
binary string GetBuffer()
```

The function has no parameters. Use the PHP function `strlen()` to get the length of the buffer. It is more efficient to call `WriteBuffer()` in combination with `GetBufSize()` instead since `GetBuffer()` must create a copy of the PDF buffer before it can be passed to the PHP engine.

## ***GetCMap***

Syntax:

```
array GetCMap(
    $Index) // CMap index (int)
```

The function returns the members of the structure `TPDFCMap` as an associative array.

The following key / value pairs are defined:

```

BaseCMap        // string
CIDCount        // int
CMapName        // string
CMapType        // int
CMapVersion     // double
DSCBaseCMap     // string
DSCCMapVersion  // double
DSCResName      // string
DSCTitle        // string
FileName        // string
FilePath        // string
Ordering        // string
Registry        // string
Supplement      // int
WritingMode     // int

```

Only keys with a value will be returned.

## ***GetCollectionInfo***

Syntax:

```
array GetCollectionInfo()
```

The function returns the structure `TPDFCollectionInfo` as an associative array.

The following key / value pairs are defined:

```

InitialFile     // int
InitialView     // int (TColView)
SortBy          // string
SortDesc        // bool
SplitInfo       // int (TPDFColSplitInfo)
SplitPos        // double

```

## ***GetColorSpaceObj***

Syntax:

```
array GetColorSpaceObj(  
    $Handle) // Color space handle (int)
```

The function returns the members of the structure TPDFColorSpaceObj as an associative array. The members *BufSize* and *ColorantsCount* will never be returned since the buffer size and colorant count are always available for PHP arrays and strings. Only keys with a value will be returned.

## ***GetColorSpaceObjEx***

Syntax:

```
array GetColorSpaceObjEx(  
    $IColorSpace) // Safe pointer
```

The function works like [GetColorSpaceObj\(\)](#) but accepts a safe pointer instead of a color space handle.

## ***GetContent***

Syntax:

```
binary string GetContent()
```

The function has no parameters. Use the PHP function `strlen()` to get the length of the buffer.

## ***GetDeviceNAttributes***

Syntax:

```
array GetDeviceNAttributes(  
    $IAttributes // Safe pointer
```

The function returns the TDeviceNAttributes structure as an associative array on success or NULL on failure.

The following key / value pairs are defined:

```
IProcessColorSpace // Safe pointer -> GetColorSpaceEx()  
ProcessColorants   // array of strings  
Separations        // array of safe pointers -> GetColorSpaceEx()  
IMixingHints        // Safe pointer
```

## ***GetDocInfo***

Syntax:

```
string GetDocInfo(  
    $DInfo) // int (TDocumentInfo)
```

The function returns the document info entry on success or NULL on failure or if no value is defined for the key.

## ***GetDocInfoEx***

Syntax:

```
array GetDocInfoEx(  
    $Index) // Entry index(int)
```

The function returns the parameters and value of the document info entry as an associative array on success or NULL on failure.

The following key / value pairs are defined:

```
Key    // string
DInfo  // int (TDocumentInfo) -> This key is always set
Value  // string
```

## ***GetEmbeddedFile***

Syntax:

```
array GetEmbeddedFile(
    $Handle,          // Handle of an embedded file (int)
    $Decompress) // If true, the file will be decompressed (bool)
```

The function returns the structure TPDFFileSpec as an associative array on success or NULL on failure.

The following key / value pairs are defined:

```
Buffer      // binary string
Compressed  // bool
ColItem     // Safe pointer
Name        // string
FileName    // string
IsURL       // bool
UF          // string
Desc        // string
FileSize    // Decompressed stream size or zero if not known (int)
MIMEType    // string
CreateDate  // string
ModDate     // string
Checksum    // string
```

Only keys with a value will be returned.

## ***GetEmbeddedFileNode***

Syntax:

```
array GetEmbeddedFileNode(
    $IEF,            // Safe pointer of an embedded file node (int)
    $Decompress) // If true, the file will be decompressed (bool)
```

The function returns the structure TPDFEmbFileNode as an associative array on success or NULL on failure.

The following key / value pairs are defined:

```
Name        // string
EF           // array (the keys and values of the structure TPDFFileSpec
              // are described at GetEmbeddedFile()).
NextNode     // Safe pointer -> GetEmbeddedFileNode()
```

## ***GetErrLogMessage***

Syntax:

```
array GetErrLogMessage(
    $Index) // Message index (int)
```

The function returns the structure TPDFError as an associative array on success or NULL on failure.

The following key / value pairs are defined:

```
Message // string
ObjNum  // int
Offset  // int
SrcFile // string
SrcLine // int
```

## ***GetField (obsolete)***

Syntax:

```
array GetField(
    $Handle) // int
```

The function returns the structure TPDFField as an associative array on success or NULL on failure.

The following key / value pairs are defined:

```
FieldType // int (TFieldType)
Deleted    // bool
BBox       // array (Left, Bottom, Right, Top)
Handle     // int
FieldName  // string
BackCS     // int (TPDFColorSpace)
TextCS     // int (TPDFColorSpace)
BackColor  // int
BorderColor // int
TextColor  // int
Checked    // bool
Parent     // int
KidCount   // int
Font       // string
FontSize   // double
Value      // string
ToolTip    // string
```

Only keys with a value will be returned.

## ***GetFieldCalcOrder***

Syntax:

```
array GetFieldCalcOrder()
```

The function returns the calc order array. This function has no parameters.

## ***GetFieldChoiceValue***

Syntax:

```
array GetFieldChoiceValue(
    $AField, // Field handle (int)
    $ValIndex) // Value index (int)
```

The function returns the structure TPDFChoiceValue as an associative array on success or NULL on failure.

The following keys are returned if set:

```
ExpValue // string
Value    // string
Selected // bool (always present)
```

## ***GetFieldColor***

Syntax:

```
array GetFieldColor(  
    $AField,    // Field handle (int)  
    ColorType) // Color type (int)(TFieldColor)
```

The function contains normally two additional parameters to return the color space and the corresponding color value. These parameters are returned as an associative array instead.

The returned key / value pairs are:

```
ColorSpace // int (TPDFColorSpace)  
Color      // int
```

## ***GetFieldEx***

Syntax:

```
array GetFieldEx(  
    $Handle) // Field handle (int)
```

The function returns the structure TPDFField as an associative array on success or NULL on failure.

The following key / value pairs are defined:

```
Deleted          // bool  
BBox             // array (Left, Bottom, Right, Top)  
FieldType        // int (TFieldType)  
GroupType        // int (TFieldType)  
Handle           // int  
BackColor        // int  
BackColorSP      // int (TExtColorSpace)  
BorderColor      // int  
BorderColorSP    // int (TExtColorSpace)  
BorderStyle      // int (TBorderStyle)  
BorderWidth     // double  
CharSpacing      // double  
Checked          // bool  
CheckBoxChar     // int  
DefState         // int (TCheckBoxState)  
DefValue         // string  
IEditFont        // Safe pointer -> GetFont()  
EditFont         // string  
ExpValCount      // int  
ExpValue         // string  
FieldFlags       // int (TFieldFlags)  
IFieldFont       // Safe pointer -> GetFont()  
FieldFont        // string  
FontSize         // double  
FieldName        // string  
HighlightMode    // int (THighlightMode)  
IsCalcField      // bool  
MapName          // string  
MaxLen           // int  
Kids             // array of safe pointers -> GetFieldEx2()  
Parent           // Safe pointer -> GetFieldEx2()  
PageNum          // int  
Rotate           // int  
TextAlign        // int (TTextAlign)  
TextColor        // int  
TextColorSP      // int (TExtColorSpace)  
TextScaling      // double  
ToolTip          // string  
UniqueName       // string  
Value            // string
```

```

WordSpacing    // double
IBarcode       // Safe pointer -> GetBarcodeDict()
ISignature     // Safe pointer -> GetSigDict()
Action         // int
ActionType     // int (TActionType)
Events         // Safe pointer -> GetObjEvent()

```

Only keys with a value will be returned.

## ***GetFieldEx2***

Syntax:

```

array GetFieldEx2(
    $IField) // Safe pointer of a field

```

The function work exactly like [GetFieldEx\(\)](#) but it accepts a safe pointer instead of a field handle.

## ***GetFieldExpValueEx***

Syntax:

```

array GetFieldExpValueEx(
    $AField,    // Field handle (int)
    $ValIndex)  // Value index (int)

```

The function contains normally three additional parameters to return the field value. These parameters are returned as an associative array on success or NULL on failure.

The following key / value pairs are returned:

```

Value        // string
ExpValue     // string
Selected     // bool

```

## ***GetFieldMapName***

## ***GetFieldName***

## ***GetFieldToolTip***

Syntax:

```

string GetFieldToolTip(
    $AField) // Field handle (int)

```

The above functions require the same parameter and return a string value on success or NULL on failure.

## ***GetFileSpec***

Syntax:

```

array GetFileSpec(
    $IFS) // Safe pointer

```

The function returns the structure TPDFFileSpecEx as an associative array.

The following key / value pairs are defined:

```

AFRelationship // string
ColItem        // Safe pointer
Description     // string

```

```

DOS                // string
EmbFileNode        // Save pointer -> GetEmbeddedFileNode().
FileName           // string
FileNameIsURL       // bool
ID1                // binary string
ID2                // binary string
IsVolatile         // bool
Mac                // string
Unix               // string
RelFileNode        // Safe pointer -> GetRelFileNode().
Thumb              // Safe pointer -> GetImageObjEx().
UFileNameA         // string

```

Only keys with a value will be returned.

## ***GetFont (Font API)***

Syntax:

```

array GetFont(
    $IFont) // Safe pointer

```

The function returns the structure TPDFFont as an associative array on success or NULL on failure.

The following key / value pairs are defined:

```

Ascent             // double
BaseFont           // string
CapHeight          // double
Descent            // double
Encoding           // array of int -> 256 UTF-16 Unicode indexes if set
FirstChar          // int
Flags              // int
FontFamily         // string
FontName           // string
FontType           // int (TFontType)
ItalicAngle        // double
LastChar           // int
SpaceWidth         // double
Widths             // array of double
XHeight           // double
DefWidth           // double
FontFile           // binary string or file path (if Length1 is zero)
Length1            // int
Length2            // int
Length3            // int
FontFileType       // int (TFontFileSubtype)

```

It is guaranteed that the sum of Length1 + Length2 + Length3 does not exceed the size of the font buffer (FontFile).

## ***GetFontEx***

Syntax:

```

array GetFontEx(
    $Handle) // Font handle (int)

```

The function returns the properties of a font like [GetFont\(\)](#) but accepts a font handle instead.



## ***GetFontInfo***

## ***GetFontInfoEx***

Both functions return the structure TPDFFontInfo as an associative array. The member *VertWidths* is returned as flat array of double to reduce the memory usage. Since a vertical CID metric consists always of three floating point numbers, the array length is three times longer as the number of available metrics.

Only keys with a value will be returned.

## ***GetGoToAction,*** ***GetGoToRAction***

Syntax:

```
array GetGoToAction(  
    $Handle) // int
```

The function returns the structure TPDFGoToAction as an associative array.

The following key / value pairs are defined:

```
DestPage      // int  
DestPos       // array  
DestType      // int (TDestType)  
DestFile      // Safe pointer -> GetFileSpec().  
DestName      // string  
NewWindow     // int  
NextAction    // int  
NextActionType // int (TActionType)
```

Only keys with a value will be returned.

## ***GetGlyphOutline***

Syntax:

```
array GetGlyphOutline(  
    $Index) // int
```

The function returns the structure TPDFGlyphOutline as an associative array. The glyph outline is returned as flat array of int.

Returned keys:

```
AdvanceX // double  
AdvanceY // double  
OriginX  // double  
OriginY  // double  
Lsb      // int  
Tsb      // int  
HaveBBox // bool  
BBox     // array(MinX, MinY, MaxX, MaxY)  
Outline  // array of int, two values per point  
Size     // int
```

## ***GetHideAction***

Syntax:

```
array GetHideAction(  
    $Handle) // int
```

The function returns the structure TPDFHideAction as an associative array.

The following key / value pairs are defined:

```
Fields          // Array of safe pointers -> GetFieldEx2().  
Hide            // bool  
NextAction      // int  
NextActionType  // int (TActionType)
```

## ***GetImageObj***

Syntax:

```
array GetImageObj(  
    $Handle, // int  
    $Flags)  // int -> TParseFlags
```

The function returns the structure TPDFImage as an associative array on success or NULL on failure. The following key / value pairs are defined:

```
Buffer          // binary string  
Filter          // int (TDecodeFilter)  
OrgFilter       // int (TDecodeFilter)  
JBIG2Globals    // binary string  
BitsPerPixel    // int  
ColorSpace      // int (TExtColorSpace)  
NumComponents   // int  
MinIsWhite      // bool  
IColorSpaceObj  // safe pointer  
ColorTable      // binary string  
Width           // int  
Height          // int  
ScanLineLength  // int  
InlineImage     // bool  
Interpolate     // bool  
Transparent     // bool  
ColorMask       // binary string (one byte per mask value)  
IMaskImage      // safe pointer  
ISoftMask       // safe pointer  
Decode          // float array  
Intent          // int (TRenderingIntent)  
SMaskInData     // bool  
OCG             // safe pointer  
Metadata        // binary string  
ResolutionX     // double  
ResolutionY     // double
```

Only keys with a value will be returned.

## ***GetImportDataAction***

Syntax:

```
array GetImportDataAction(  
    $Handle)
```

The function returns the structure TPDFImportDataAction as an associative array.

The following key / value pairs are defined:

```
Data          // array (TPDFFileSpecEx, see GetFileSpec())  
NextAction     // int  
NextActionType // int (TActionType)
```

## ***GetInBBox***

Syntax:

```
array GetInBBox(  
    $PageNum,    // int  
    $Boundary)  // int (TPageBoundary)
```

The function returns the structure TPDFRect as an associative array on success or NULL on failure or if the bounding box is not set.

## ***GetInDocInfo***

Syntax:

```
string GetInDocInfo(  
    $DInfo) // int (TDocumentInfo)
```

The function returns the document info entry on success or NULL on failure or if no value is defined for the key.

## ***GetInDocInfoEx***

Syntax:

```
array GetInDocInfoEx(  
    $Index) // Entry index(int)
```

The function returns the parameters and value of the document info entry as an associative array on success or NULL on failure.

The following key / value pairs are defined:

```
Key    // string  
DInfo  // int (TDocumentInfo) -> This key is always set  
Value  // string
```

## ***GetInkList***

Syntax:

```
array GetInkList(  
    $List) // Save pointer of an ink list (see GetAnnotEx() or  
           // GetPageAnnotEx()).
```

The function returns the ink list as an array of double on success or NULL on failure or if no values are defined in the list.

## ***GetInPrintSettings***

Syntax:

```
array GetInPrintSettings()
```

The function returns the structure TPDFPrintSettings as an associative array on success or NULL on failure. The member *PrintRangesCount* is not returned since the array length is already implicitly defined in PHP.

## ***GetInPDFVersionEx***

Syntax:

```
array GetInPDFVersionEx()
```

The function returns the structure TPDFVersionInfo as an associated array.

The following key value pairs are defined:

```
Major           // int
Minor           // int
MainVer         // string
SubVer          // string
PDFAConformance // string
PDFAVersion     // int
PDFEVersion     // string
PDFVTModDate    // string
PDFVTVersion    // string
PDFXConformance // string
PDFXVersion     // string
FXConfLevel     // string
FXDocName       // string
FXDocType       // string
FXVersion       // string
VersionConst    // int
```

Only keys with a value will be returned.

## ***GetJavaScript***

### ***GetJavaScriptAction***

Syntax:

```
string GetJavaScriptAction(
    $Handle) // Handle (int)
```

The above functions have only one parameter in PHP.

### ***GetJavaScriptAction2***

Syntax:

```
array GetJavaScriptAction2(
    $ObjType,    // int (TObjType)
    $ObjHandle,  // Object handle (int)
    $ActIndex)   // Action index (int)
```

The two additional out parameters which are present in other programming languages are returned as an associative array.

The following key / value pairs are defined:

```
result // string
Event  // int (TObjEvent)
```

## ***GetJavaScriptActionEx***

Syntax:

```
array GetJavaScriptActionEx(
    $Handle)
```

The function returns the structure TPDFJavaScriptAction as an associative array.

The following key / value pairs are defined:

```
Script // string
```

```
NextAction      // int
NextActionType  // int (TActionType)
```

## ***GetJavaScriptEx***

Syntax:

```
string GetJavaScriptEx(
    $Name) // Name of the global JavaScript (string)
```

The function has only one parameter in PHP.

## ***GetJavaScriptName***

Syntax:

```
string GetJavaScriptName(
    $Handle) // int
```

The function has only one parameter in PHP.

## ***GetLaunchAction***

Syntax:

```
array GetLaunchAction(
    $Handle)
```

The function returns the structure TPDFLaunchAction as an associative array.

The following key / value pairs are defined:

```
AppName        // string
DefDir          // string
File           // Safe pointer -> GetFileSpec().
NewWindow       // int
NextAction      // int
NextActionType  // int (TActionType)
Operation       // string
Parameter       // string
```

## ***GetLogMetafileSize***

Syntax:

```
array GetLogMetafileSize(
    $FileName) // string
```

The function has only parameter in PHP and the bounding box is returned as associative array on success or NULL on failure.

## ***GetLogMetafileSizeEx***

Syntax:

```
array GetLogMetafileSizeEx(
    $Buffer) // binary string
```

The function has only parameter in PHP and the bounding box is returned as associative array on success or NULL on failure.

## ***GetMatrix***

Syntax:

```
array GetMatrix( )
```

The function has no parameters in PHP and the structure TCTM is returned as associative array on success or NULL on failure.

## ***GetInMetadata***

Syntax:

```
binary string GetInMetadata(  
    $PageNum) // int
```

The function returns the metadata stream as binary string on success.

## ***GetMeasureObj***

Syntax:

```
array GetMeasureObj(  
    $Measure) // Safe pointer
```

The function returns the structure TPDFMeasure as an associative array on success or NULL on failure.

## ***GetMetadata***

Syntax:

```
binary string GetMetadata(  
    $ ObjType, // int (TMetadataObj)  
    $ Handle) // int
```

The function returns the metadata stream as binary string on success.

## ***GetMissingGlyphs***

```
array GetMissingGlyphs( )
```

The function has no parameters in PHP. The return value is an array of integers if one or more glyphs could not be found or NULL if the list is empty.

## ***GetMovieAction***

Syntax:

```
array GetMovieAction(  
    $Handle)
```

The function returns the structure TPDFMovieAction as an associative array.

The following key / value pairs are defined:

```
Annot           // int  
FWPosition[2]   // array of double  
FWScale[2]      // array of int  
Mode            // string  
NextAction      // int  
NextActionType  // int (TActionType)  
Operation       // string
```

```

Rate           // double
ShowControls   // bool
Synchronous    // bool
Title          // string
Volume         // double

```

## ***GetNamedAction***

Syntax:

```

array GetNamedAction(
    $Handle)

```

The function returns the structure TPDFNamedAction as an associative array.

The following key / value pairs are defined:

```

Name           // string
NewWindow      // int
NextAction     // int
NextActionType // int (TActionType)
Type           // int (TNamedAction)

```

## ***GetNameDest***

Syntax:

```

array GetNameDest(
    $Index) // int

```

The function returns the structure TPDFNamedDest as an associative array on success or NULL on failure.

The following key / value pairs are defined:

```

Name          // string
DestFile      // string
DestPage      // int
DestPos       // array (Left, Bottom, Right, Top)
DestType      // int (TDestType)

```

## ***GetNumberFormatObj***

Syntax:

```

array GetNumberFormatObj(
    $ NumberFmt) // Safe pointer

```

The function returns the structure TPDFNumberFormat as an associative array on success or NULL on failure.

## ***GetObjActions***

Syntax:

```

array GetObjActions(
    $ObjType      // int (TObjType)
    $ObjHandle)   // int

```

The function returns the structure TPDFObjActions as an associative array.

The following key / value pairs are defined:

```

Action        // int

```

```
ActionType // int (TActionType)
Events      // Safe pointer -> GetObjEvent().
```

## ***GetObjEvent***

Syntax:

```
array GetObjEvent(
    $IEvent) // Safe pointer
```

The function returns the structure TPDFObjEvent as an associative array.

The following key / value pairs are defined:

```
Action      // int
ActionType  // int (TActionType)
Event       // int (TObjEvent)
Next        // Safe pointer -> GetObjEvent()
```

## ***GetOCG***

Syntax:

```
array GetOCG(
    $Handle) // int
```

The function returns the structure TPDFOCG as an associative array on success or NULL on failure.

The following key / value pairs are defined:

```
Handle      // int
Intent      // int
Name        // string
HaveContUsage // bool
AppEvents   // int
Categories  // int
```

## ***GetOCGContUsage***

Syntax:

```
array GetOCGContUsage(
    $Handle) // int
```

The function returns the structure TPDFOCGContUsage as an associative array on success or NULL on failure.

The following key / value pairs are defined:

```
ExportState // int
InfoCreator // string
InfoSubtype // string
Language    // string
LangPreferred // int
PageElement // int
PrintState  // int
PrintSubtype // string
UserNamesCount // int
UserType    // int
ViewState   // int
ZoomMin      // double
ZoomMax      // double
```

Note that keys with no value will be omitted.



## ***GetOCGUsageUserName***

Syntax:

```
string GetOCGUsageUserName(  
    $Handle, // int  
    $Index) // int
```

The function has only two parameters and returns the user name in UTF-8 format or NULL on failure.

## ***GetPageAnnotEx***

Syntax:

```
array GetPageAnnotEx(  
    $Index) // Array index (int)
```

The function returns the structure TPDFAnnotationEx as an associative array on success or NULL on failure like [GetAnnotEx\(\)](#).

## ***GetPageBBox (Rendering Engine)***

Syntax:

```
array GetPageBBox(  
    $PageNum, // Page number (int)  
    $Type) // int (TPageBoundary)
```

The first parameter is the page number instead of a pointer as it is the case in C or C++. The structure TFltRect is returned as an associative array on success or NULL on failure.

## ***GetPageField (obsolete)***

Syntax:

```
array GetPageField(  
    $Index) // Array index (int)
```

The function returns the structure TPDFField as an associative array on success or NULL on failure like [GetField\(\)](#).

## ***GetPageFieldEx***

Syntax:

```
array GetPageFieldEx(  
    $Index) Array index (int)
```

The function returns the structure TPDFFieldEx as an associative array on success or NULL on failure like [GetFieldEx\(\)](#).

## ***GetPageLabel***

Syntax:

```
array GetPageLabel(  
    $Index) // Array index (int)
```

The function returns the structure TPDFPageLabel as an associative array on success or NULL on failure.

The following key / value pairs are defined:

```

StartRange    // int
Format        // int (TPageLabelFormat)
FirstPageNum  // int
Prefix        // string

```

Only keys with a value will be returned.

## ***GetPageOrientation (Rendering Engine)***

Syntax:

```

int GetPageOrientation(
    $PageNum) // Page number (int)

```

The function requires a pointer of a page object in C or C++. Since the usage of a pointer would cause an unnecessary overhead in PHP, the function uses the page number instead.

## ***GetPageText***

Syntax:

```

array GetPageText (
    $DestSpace) // Optional, int (TPDFColorSpace)

```

The function has one optional parameter in PHP. If the parameter is present, then it specifies the destination color space into which the text color should be converted.

The structure TPDFStack is returned as an associative array or NULL if no more text is available.

**InitStack()** must be called as usual before the function can be called the first time.

Execute the function in a while statement as follows:

```

$pdf->InitStack();
while (($sarr = $pdf->GetPageText()) != NULL)
{
    // The kerning arrays can be accessed like every PHP array:
    $kerning = &$sarr['Kerning'];
    $count   = count($kerning);

    for ($i = 0; $i < $count; $i++)
    {
        $rec = &$kerning[$i];
        // Do something with the text
        if (strlen($rec['Text']) > 0)
        {
            ...
        }
    }
}

```

Take a look into the example text\_extraction for a complete example.

## ***GetPDFVersionEx***

Syntax:

```

array GetPDFVersionEx( )

```

The function returns the structure TPDFVersionInfo as an associated array.

The following key value pairs are defined:

```

Major          // int
Minor          // int

```

```

MainVer          // string
SubVer           // string
PDFAConformance // string
PDFAVersion      // int
PDFEVersion      // string
PDFVTModDate     // string
PDFVTVersion     // string
PDFXConformance // string
PDFXVersion      // string
FXConfLevel      // string
FXDocName        // string
FXDocType        // string
FXVersion        // string
VersionConst     // int

```

Only keys with a value will be returned.

## ***GetPrintSettings***

Syntax:

```
array GetPrintSettings()
```

The function returns the structure `TPDFPrintSettings` as an associative array on success or `NULL` on failure. The member *PrintRangesCount* is not returned since the array length is already implicitly defined in PHP.

## ***GetPtDataArray***

Syntax:

```
array GetPtDataArray(
    $PtData, // Safe pointer
    $Index)  // int

```

The function has only two parameters in PHP. The out parameters *DataType*, and *Values* of the corresponding C function are returned as an associative array. The parameter *ValCount* is omitted since the array length is already implicitly defined in PHP.

## ***GetPtDataObj***

Syntax:

```
array GetPtDataObj(
    $PtData) // Safe pointer

```

The function has only one parameter in PHP. The out parameters *Subtype*, and *NumArrays* of the corresponding C function are returned as an associative array.

## ***GetRelFileNode***

```
array GetRelFileNode(
    $IRF,          // Safe pointer
    $Decompress)   // bool

```

The function returns the structure `TPDFRelFileNode` as an associative array.

The following key / value pairs are defined:

```

Name          // string
EF            // array (TPDFFileSpec see GetEmbeddedFile())

```

```
NextNode // Safe pointer -> GetRelFileNode().
```

## ***GetResetAction***

Syntax:

```
array GetResetAction(  
    $Handle) // Action handle (int)
```

The function returns the structure TPDFResetFormAction as an associative array on success or NULL on failure.

## ***GetSeparationInfo***

Syntax:

```
array GetSeparationInfo()
```

The function has no parameters in PHP. The two additional out parameters of the C/C++ version are returned as an associative array or NULL on failure.

The returned key / value pairs are:

```
Colorant // string  
CS       // int (TExtColorSpace)
```

## ***GetSigDict***

Syntax:

```
array pdfGetSigDict(  
    $ISignature) // Safe pointer
```

The function returns the structure TPDFSigDict as an associative array on success or NULL on failure.

The following key / value pairs are defined:

```
ByteRange // array of int (start / end range pairs)  
Cert      // binary string  
Changes   // array of int  
ContactInfo // string  
Contents  // binary string  
Filter     // string  
Location  // string  
SignTime  // string  
Name      // string  
PropAuthTime // int  
PropAuthType // string  
Reason    // string  
Revision  // int  
SubFilter  // string  
Version   // int
```

Only keys with a value will be returned.

## ***GetSubmitAction***

Syntax:

```
array GetSubmitAction(  
    $Handle) // Handle of s submit form action
```

The function returns the structure TPDFSubmitFormAction as an associative array on success or NULL on failure.

## GetSysFontInfo

Syntax:

```
array GetSysFontInfo(  
    $Handle) // Next font handle or 0 for the first call
```

The function returns the structure TPDFSysFont as an associative array on success or NULL on failure or if no system font is available.

The following key / value pairs are defined:

```
BaseType      // int  
CIDOrdering   // string  
CIDRegistry   // string  
CIDSupplement // int  
DataOffset    // int  
FamilyName    // string  
FilePath      // string  
FileSize      // int  
Flags         // int  
FullName      // string  
Length1       // int  
Length2       // int  
PostScriptName // string  
Index         // int  
IsFixedPitch  // bool  
Style         // int  
UnicodeRange1 // int  
UnicodeRange2 // int  
UnicodeRange3 // int  
UnicodeRange4 // int  
Next          // Next font handle
```

The parameter *\$Handle* must be set to 0 in the first call. The usage is as follows:

```
...  
$next = 0;  
while (($font = $pdf->GetSysFontInfo($next)) != NULL)  
{  
    // Do something with the return value.  
    echo $font['FullName']."\n";  
  
    // Note that the next handle value must be greater zero!  
    // A test like $next != 0 can result in an endless loop!  
    if (($next = $font['Next']) < 1) break;  
}
```

## GetTextFieldValue

Syntax:

```
array GetTextFieldValue(  
    $AField) // Field handle
```

The field value and default value are returned as an associative array on success or NULL on failure.

The following key / value pairs are defined:

```
result // bool (always true if present)  
Value  // string  
DefValue // string
```

The key 'result' is returned to avoid a return value of NULL if the field contains no value and no default value.

## ***GetTextRect***

Syntax:

```
array GetTextRect ( )
```

The function has no parameters in PHP. The out parameters PosX, PosY, Width, and Height, which are present in C/C++, are returned as an associative array on success or NULL on failure.

## ***GetTextWidthF (Font API)***

Syntax:

```
double GetTextWidthF(  
    $IFont,          // Safe pointer  
    $Text,           // binary string  
    $CharSpacing,    // double  
    $WordSpacing,    // double  
    $TextScale)      // double
```

This function refers to `fnGetTextWidth()` of the font API. The function can be used to calculate the width of a binary string returned by `GetPageText()`. The original source strings are stored in the array *RawKern*. Only these strings can be passed to the function! Don't pass strings of the *Kerning* array to the function since this would cause invalid results. The parameter *Len* is omitted since PHP strings have an implicit length.

## ***GetURIAction***

Syntax:

```
array GetURIAction(  
    $Handle) // int
```

The function returns the structure `TPDFURIAction` as an associative array.

The following key / value pairs are defined:

```
BaseURL          // string  
IsMap            // bool  
URI              // string  
NextAction       // int  
NextActionType   // int (TActionType)
```

## ***GetViewerPreferences***

Syntax:

```
array GetViewerPreferences ( )
```

The function has no parameters in PHP. The out parameters *Preference* and *AddVal*, which are present in C/C++ are returned as an associative array on success or NULL on failure.

## ***GetViewport***

Syntax:

```
array GetViewport(  
    $PageNum, // int  
    $Index)   // int
```

The function returns the structure TPDFViewport as an associative array on success or NULL on failure.

The following key / value pairs are defined:

```
BBox      // array (Left, Bottom, Right, Top)
Measure   // Safe pointer
Name      // string
PtData    // Safe pointer
```

## ***GetXFAStream***

Syntax:

```
array GetXFAStream(
    $Index,                // int
    $Compress = false) // optional (bool)
```

The function returns the structure TPDFXFAStream as an associative array. The second parameter is optional. If set to true or 1, the XFA stream will be compressed.

Returned key / value pairs (if \$Compress is false):

```
Buffer // binary string
Name   // string
```

## ***InitStack***

Syntax:

```
bool InitStack()
```

The function has no parameters in PHP.

## ***InkAnnot***

Syntax:

```
int InkAnnot(  
    $Points,    // array of double  
    $LineWidth, // double  
    $Color,     // int  
    $CS,        // int (TPDFColorSpace)  
    $Author,    // string  
    $Subject,   // string  
    $Content)   // string
```

The function contains only 7 parameters because the length of the *Points* array is already implicitly defined in PHP.

## ***InsertBarcode***

Syntax:

```
int InsertBarcode(  
    $PosX,      // double  
    $PosY,      // double  
    $Width,     // double  
    $Height,    // double  
    $HAlign,    // int  
    $VAlign,    // int  
    $Barcode)   // Associative Array (TPDFBarcode2)
```

The parameter *\$Barcode* is a structure in C/C++. The extension initializes the internal barcode structure first with `InitBarcode2()`. After that, the variables from PHP are loaded. Therefore, variables with no value can be omitted.

The following key / value pairs are defined (parameter *\$Barcode*):

```
BarcodeType // int (TPDFBarcodeType) -> required  
BgColor     // int  
BorderWidth // int  
Data        // string -> required  
DataType    // int (TPDFBarcodeDataType)  
DotSize     // double  
Eci         // int  
FgColor     // int  
FSizeFactor // double  
Option1     // int  
Option2     // int  
Option3     // int  
Options     // int (TPDFBarcodeOptions)  
Orientation // int  
Primary     // string  
Scale       // double  
ShowText    // bool  
SpaceWidth  // int  
SymbHeight  // int  
TextOffsetY // double
```

Example:

```
...  
$b = array('BarcodeType' => dynapdf::bctQRCode, 'Data' => 'Test');  
$pdf->InsertBarcode(50, 50, 100, 100, dynapdf::coRight, dynapdf::coTop, $b);
```

The keys can be defined case-insensitive. Undefined keys will be ignored.



## ***InsertRawImageEx***

Syntax:

```
int InsertRawImageEx(
    $PosX,           // double
    $PosY,           // double
    $ScaleWidth,     // double
    $ScaleHeight,    // double
    $Image            // Associative Array (TPDFRawImage)
```

The parameter *\$Image* is a structure in C/C++. The extension initializes the structure TPDFRawImage with zero before setting any value from PHP to it. Values which cannot be zero are required.

The following key / value pairs are defined:

```
Buffer                // Binary string
BitsPerComponent      // int (required)
NumComponents         // int (required)
CS                    // int (TExtColorSpace)
CSHandle              // int
Stride                // int (required)
HasAlpha              // bool
IsBGR                 // bool
MinIsWhite            // bool
Width                 // int (required)
Height                // int (required)
```

The keys can be defined case-insensitive. Undefined keys will be ignored.

## ***LoadHeaderFooterSettings***

Syntax:

```
array or int LoadHeaderFooterSettings(
    $SearchRun) // bool (optional, default = false)
```

The function has only one optional parameter in PHP. If *\$SearchRun* is true, the return value is an integer number. If *\$SearchRun* is false and if header / footer settings were found in the PDF file in memory, the return value is an associative array with the keys "Init" and "HFArray". The values of these keys can be modified and passed to [AddHeaderFooter\(\)](#) as first and second parameter.

Example:

```
<?php

function print_r2($val)
{
    echo '<pre>';
    echo htmlspecialchars(print_r($val, true));
    echo '</pre>';
}

$pdf = new dynapdf();

$pdf->CreateNewPDF("./out.pdf");

// Import anything and don't convert pages to templates
$pdf->SetImportFlags(dynapdf::ifImportAll | dynapdf::ifImportAsPage);
// Reduce the memory usage
$pdf->SetImportFlags2(dynapdf::if2UseProxy);
if ($pdf->OpenImportFile('./testfile.pdf', dynapdf::ptOpen, NULL) < 0)
    die('Cannot open file!');
$pdf->ImportPDFFile(1, 1.0, 1.0);
$pdf->CloseImportFile();
```

```

$retval = $pdf->LoadHeaderFooterSettings();
if ($retval != NULL)
{
    // Delete the original headers / footers
    $pdf->Optimize(dynapdf::ofInMemory |
                  dynapdf::ofRemoveBatesNumbers |
                  dynapdf::ofRemoveHeaderFooter);

    // To understand what was returned output the return value
    print_r2($retval);

    // Check whether the output is identically if we create the same headers / footers again
    $pdf->AddHeaderFooter($retval['Init'], $retval['HFArray']);
}
$pdf->CloseFile();

?>

```

## OpenTagBBox

Syntax:

```

bool OpenTagBBox(
    Tag,          // int
    Lang,         // string or NULL
    AltText,      // string or NULL
    Expansion,    // string or NULL
    BBox)         // array NULL, or omitted

```

The only difference in comparison to C/C++ is that the last parameter must be defined as an array of four numbers. The parameter *BBox* is optional. It can be set to NULL or omitted. Both variants work.

## Optimize

Syntax:

```

bool Optimize(
    $Flags, // int
    $Parms) // Associative array

```

The parameter *\$Parms* is a structure in C/C++. The extension initializes the structure *TOptimizeParams* with zero before setting any value from PHP to it.

Note that optimization is a memory intensive operation. To reduce the memory usage the flag *ofInMemory* should only be set for small PDF files.

The following key / value pairs are defined:

```

Min1BitRes      // int
MinGrayRes      // int
MinColorRes     // int

Res1BitImages   // int
ResGrayImages   // int
ResColorImages  // int

Filter1Bit      // int (TCompressionFilter)
FilterGray      // int (TCompressionFilter)
FilterColor     // int (TCompressionFilter)
JPEGQuality     // int
JP2KQuality     // int
MinLineWidth    // double

```

The keys can be defined case-insensitive. Undefined keys will be ignored.

## ***PolygonAnnot***

## ***PolyLineAnnot***

Syntax:

```
int PolygonAnnot(  
    $Vertices, // array of float  
    $LineWidth // double  
    ...)       // more parameters follow
```

The parameter *Vertices* must be defined as one dimensional array of float. The parameter NumVertices as defined in the C interface is omitted since the array length is always given in PHP.

## ***ReplacePageText***

## ***ReplacePageTextEx***

Syntax:

```
bool ReplacePageText(  
    $NewText,           // string (required)  
    $DeleteKerningAt) // Optional
```

The functions support an optional parameter *DeleteKerningAt* in PHP. In C/C++ this parameter would be set in the structure TPDFStack. Since the structure cannot be accessed directly in PHP, the parameter can be set here.

To delete the original string set the parameter *NewText* to NULL or to an empty string.

## ***RGB***

Syntax:

```
int RGB(  
    $r, // int (0..255)  
    $g, // int (0..255)  
    $b) // int (0..255)
```

The function converts RGB values to an integer value. The function does exactly the same as the PDF\_RGB() macro of the C interface. The resulting value can be passed to functions which accept RGB colors in integer format.

This function can only fail if one or more parameters are missing. If the function fails the return value is NULL and an error message is passed to the PHP engine.

## ***SetAltFonts***

Syntax:

```
bool SetAltFonts(  
    $ListHandle, // List handle (int)  
    $List)       // Array of string
```

The function contains only two parameters because the array length is already implicitly defined in PHP.

## ***SetAnnotLineDashPattern***

Syntax:

```
bool SetAnnotLineDashPattern(  
    $Handle, // Annotation handle (int)  
    $Dash)   // Dash array (array of double) or NULL
```

The function contains only two parameters because the array length is already implicitly defined in PHP.

## ***SetAnnotQuadPoints***

Syntax:

```
bool SetAnnotQuadPoints(  
    $Handle, // Annotation handle (int)  
    $Value)  // array of double
```

The function contains only two parameters because the array length is already implicitly defined in PHP. The parameter *Value* must contain x/y coordinate pairs.

## ***SetLineAnnotParms***

Syntax:

```
bool SetLineAnnotParms(  
    $Handle,      // int  
    $FontHandle, // int  
    $FontSize,   // double  
    $Parms)      // associated array or NULL
```

The parameter *Parms* must be defined as associated array if present. It is not required to set every key, missing keys will be set to zero.

The following key / value pairs are defined:

```
Caption           // bool  
CaptionOffsetX    // double  
CaptionOffsetY    // double  
CaptionPos        // int (TLineCaptionPos)  
LeaderLineLen     // double  
LeaderLineExtend  // double  
LeaderLineOffset  // double
```

## ***SetColorMask***

Syntax:

```
bool SetColorMask(  
    $ImageHandle, // int  
    $Mask)        // Array of int
```

The C or C++ version contains an additional parameter *Count* which is omitted in PHP. The array length is already implicitly defined in PHP.

## ***SetOCGContUsage***

Syntax:

```
bool SetOCGContUsage(  
    $Handle, // int  
    $Value)  // array
```

The keys of the structure `TPDFOCGContUsage` can be set with an associated array. It is also possible to set the parameter `$Value` to `NULL`. In this case the function would delete the content usage dictionary of the OCG, if any.

The following key / value pairs are defined:

```
ExportState    // int
InfoCreator    // string
InfoSubtype    // string
Language       // string
LangPreferred  // int
PageElement    // int
PrintState     // int
PrintSubtype   // string
UserType       // int
ViewState     // int
ZoomMin        // double
ZoomMax        // double
```

Example:

```
$value = array('PrintState' => 0, 'InfoCreator' => 'My PHP app');
$pdf->SetOCGContUsage($ocgHandle, $value);
```

The order of the array keys is irrelevant. Key names are case-sensitive! Unknown keys will be ignored.

## ***SetOnErrorProc***

Syntax:

```
bool SetOnErrorProc(callback $ErrProc)
// The function must return an integer value (0 to continue)
function ErrorProc(
    $ErrCode,    // Error code (int)
    $ErrMsg,     // Error message (string)
    $ErrType)    // Error type (int)
{ }
```

The callback function replaces the internally used callback function that passes error messages to the PHP engine. Note that this callback function handles DynaPDF errors only.

Syntax errors like invalid or missing parameters are still handled by the PHP engine.

Parameters are passed to a callback function by index and not by name. That means the first parameter contains always the error code, the second one the error message and so on, also if the parameter names are different.

It is no error if the callback function contains less parameter as available for the function. If you don't need the error type, for example, then the parameter can be omitted.

## ***SetOnPageBreakProc***

Syntax:

```
bool SetOnPageBreakProc(callback $OnBreakProc)
// The function must return an integer value
function OnPageBreakProc(
    $LastPosX,  // double
    $LastPosY,  // double
    $PageBreak) // bool
{ }
```

The function contains only three parameters in PHP.

Parameters are passed to a callback function by index and not by name. That means the first parameter contains always the last x-coordinate and the second one the last y-coordinate, independent of the used parameter names.

Usage:

```
$pdf->SetOnPageBreakProc( 'OnPageBreakProc' );
```

## ***SetProgressProc***

Syntax:

```
bool SetProgressProc(
    callback $InitProgress, // Initialization callback function
    callback $Progress)     // Progress callback function

// This function has no return value
function InitProgress(
    $ProgType, // int (see defined constants below)
    $MaxCount) // int
{ }

// The function must return an integer value (0 to continue)
function Progress(
    $ActivePage) // Current page number (int)
{ }

// ProgType constants
const ptImportPage = 0 // Start page import
const ptWritePage  = 1 // Start writing a page
```

To disable the callback functions set both parameters to NULL.

Usage:

```
$pdf->SetProgressProc( 'InitProgress', 'Progress' );
```

## ***SetTemplBBox***

Syntax:

```
bool SetTemplBBox(
    $Handle,    // int
    $Boundary,  // int (TPageBoundary)
    $BBox)      // array or NULL
```

The parameter *BBox* must be either an array of double or an associated array with values for Left, Right, Top, and Bottom.

## ***TranslateRawCode (Font API)***

```
array TranslateRawCode(
    $IFont,        // Safe pointer
    $Text,         // binary string
    $CharSpacing,  // double
    $WordSpacing,  // double
    $TextScale)    // double
```

The C version of this function contains three additional out parameters. These parameters are returned as an associative array.

The following key / value pairs are defined:

```
result  // int -> This is the return value of the DynaPDF function
Width   // double -> The width of the character
OutText // string (UTF-8 Unicode)
Decoded // bool -> If false, OutText contains no human readable string
```

The return value of the DynaPDF function is stored in the key 'result'. This value must be used to increment the string position. It is guaranteed that this value is always greater or equal 1 so that no endless loop can occur.

## ***TranslateString2 (Font API)***

Syntax:

```
string fntTranslateString2(
    $IFont, // Safe pointer
    $Text)  // binary string
```

The function contains only two parameters in PHP. The return value is the converted Unicode string on success or NULL on failure.