
PDFTouch SDK for iOS

A powerful PDF rendering framework for iOS developers.

by Yakamoz Labs

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INTRODUCTION

We know how hard it is to get PDF rendering done right on the iOS platform. The small memory and slow CPU conditions make it very hard to achieve blazing fast PDF rendering. You can now rely on PDFTouch SDK for rendering PDF pages in your apps and save at least months worth of development costs!

PDFTouch SDK offers you a solid framework that's easy to use and customize to your needs. With just a couple of lines of code you can create a PDF view controller and present it in your app! The user interface is very similar to the iBooks app and also features a grid display for page thumbnails.

FEATURES

- Fast multithreaded PDF rendering using Grand Central Dispatch.
- Highly optimized caching algorithm.
- Offline pre-rendering of PDF pages at different sizes integrated with the caching system.
- Thumbnail grid display.
- Pinch to zoom.
- Double tap to zoom in and out.
- Text search and highlight.
- Outline view.
- Bookmarks.
- Double-Page mode support.
- Page-Curl animations.
- Annotations support
 - Page, Web and Mail links
 - Video
 - Audio
 - Web page
 - Maps
 - Custom Overlays
- Retina Display ready.

- Optimized for both the iPhone and iPad.

REQUIREMENTS

The following system frameworks are required by the PDFTouch SDK:

- Foundation.framework
- UIKit.framework
- CoreGraphics.framework
- QuartzCore.framework
- CoreText.framework
- MediaPlayer.framework
- CoreLocation.framework
- MapKit.framework
- MessageUI.framework

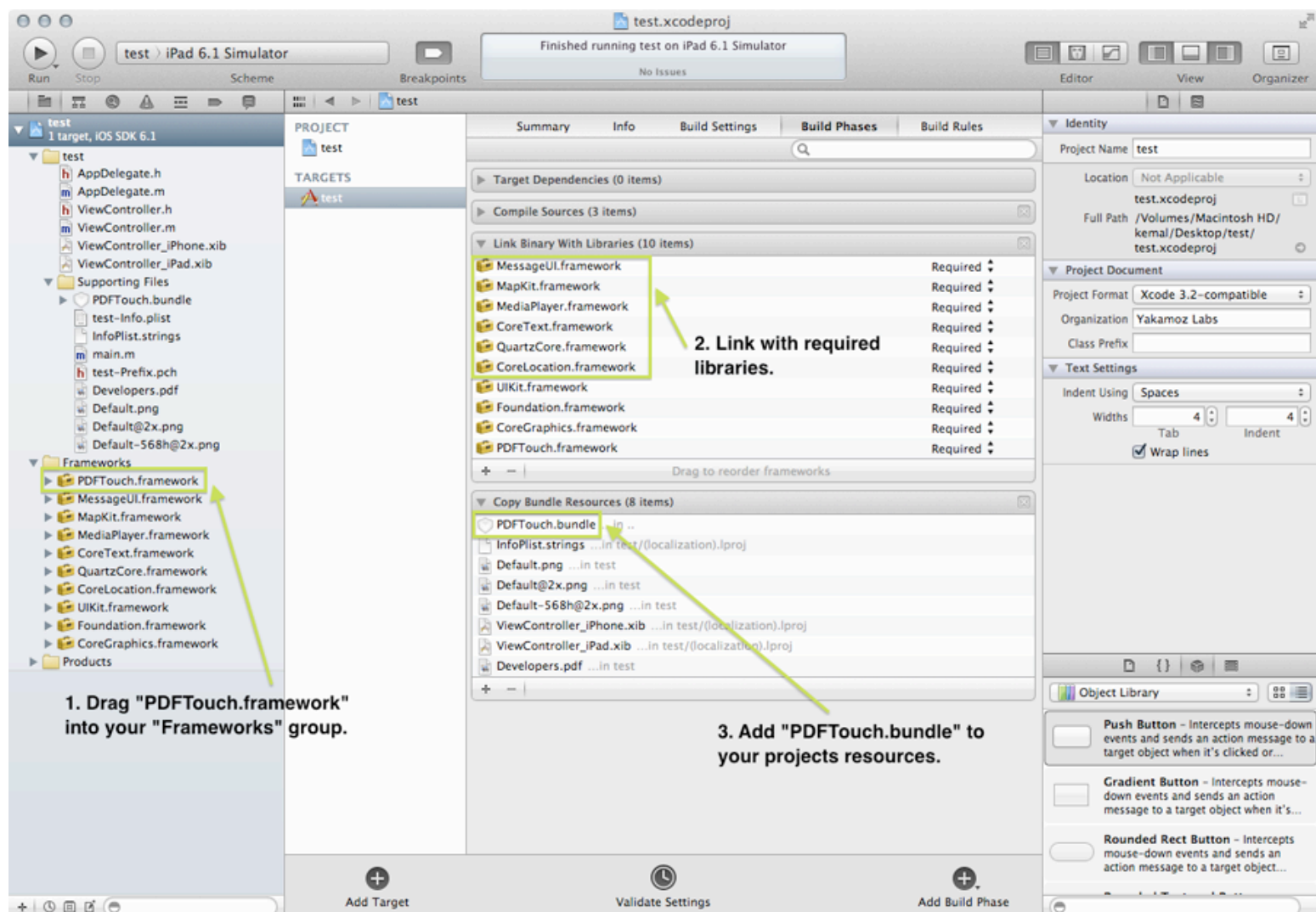
PDFTouch SDK requires a Base SDK setting of iOS 5.0!

INTEGRATION

PDFTouch SDK can be integrated in two ways into your app.

1. Add the binary PDFTouch.framework

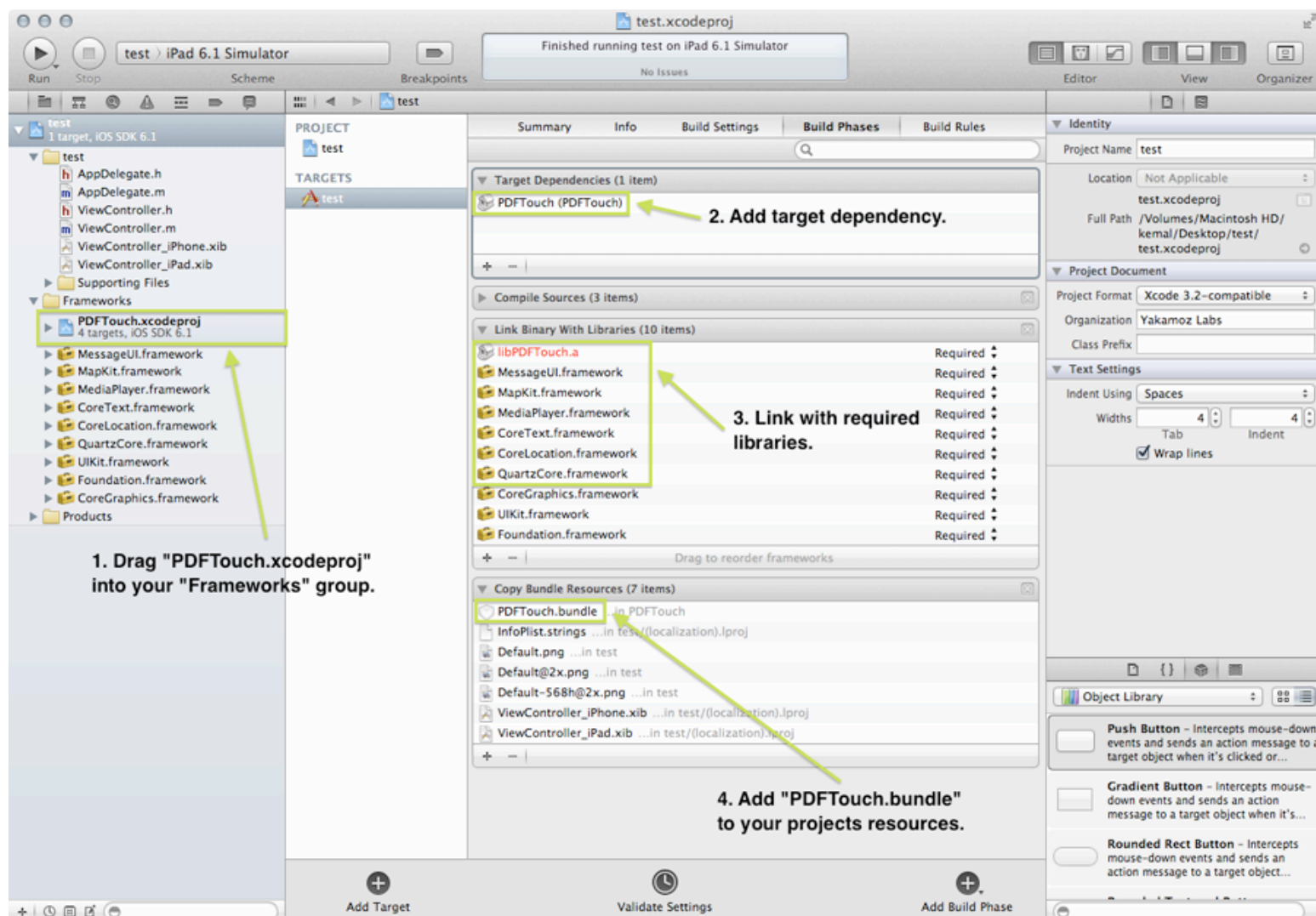
- Drag **PDFTouch.framework** into the **"Frameworks"** group of your Xcode project.
- Add the required libraries as shown in the screenshot below.
- Add **PDFTouch.bundle** into to your projects resources as shown in the screenshot below.



- Open the **Build Settings** tab and apply the following changes:
 1. *Other Linker Flags* -> **-all_load -ObjC**
- Add the following import statement everywhere you want to use PDFTouch SDK: **#import <PDFTouch/PDFTouch.h>**.

2. Add PDFTouch.xcodeproj as a dependency

- Copy the whole PDFTouch folder into your project's root folder.
- Drag **PDFTouch.xcodeproj** into the **"Frameworks"** group of your Xcode project.
- Add PDFTouch as a target dependency.
- Add the required libraries as shown in the screenshot below.
- Add **PDFTouch.bundle** into to your projects resources as shown in the screenshot below.



- Open the **Build Settings** tab and apply the following changes:
 - *Other Linker Flags* -> **-all_load -ObjC**
 - *Add the following paths to "Header Search Paths"*:
 - **"PDFTouch/**"**
- Add the following import statement everywhere you want to use PDFTouch SDK: **#import "PDFTouch.h"**.

HOW TO USE

All public classes of PDFTouch SDK are documented using appledoc. Open the ***index.html*** file in the ***Documentation/appledoc*** folder to see the technical documentation. There's also a demo app which you can examine to see how you can use PDFTouch SDK in your project.

1. Create a YLDocument instance for the PDF file you want to display.

```
NSString *path = [[NSBundle mainBundle] PathForResource:@"Developers"
withExtension:@"pdf"];
YLDocument *document = [[YLDocument alloc] initWithFilePath:path];
```

2. Create a YLPDFViewController instance and present it modally or pushed onto a navigation controller.

```
YLPDFViewController *v = [[YLPDFViewController alloc]
initWithDocument:document];
[v setDocumentMode:YLDocumentModeDouble];
[v setDocumentLead:YLDocumentLeadRight];
[v setPageCurlEnabled:YES];
[v setModalPresentationStyle:UIModalPresentationFullScreen];
[v setModalTransitionStyle:UIModalTransitionStyleCoverVertical];
[self.navigationController presentViewController:v
animated:YES];
[v release];
```

CUSTOM ANNOTATIONS

PDFTouch supports custom annotations besides page links and web links. You can show video, audio, maps or web pages embedded on pdf pages by using annotations with custom links. All you need is a simple PDF-editor like the Preview app on Mac OS X.

Video

Use the prefix **ylvideo://** to display a video on a pdf page.

Example: **ylvideo://some-website.com/video.mp4**

Local content is also supported and can be defined by replacing the host name with localhost like this: **ylvideo://localhost/video.mp4**. PDFTouch will use the same path as the pdf file to locate the local resource.

If you want to start playing video after a user has tapped a button you can add the optional **modal** parameter to the annotation url like this: **ylvideo://some-website.com/video.mp4?modal=1**. This will open the video player in fullscreen mode.

The ylvideo:// prefix also supports the **autostart** parameter which will cause the video player to start playing immediately when the pdf page is displayed: **ylvideo://some-website.com/video.mp4?autostart=1**.

Audio

Use the prefix **ylaudio://** to embed audio on a pdf page.

Example: **ylaudio://some-website.com/audio.mp3**

Local content is also supported and can be defined by replacing the host name with localhost like this: **ylaudio://localhost/audio.mp3**. PDFTouch will use the same path as the pdf file to locate the local resource.

If you want to start playing audio after a user has tapped a button you can add the optional **modal** parameter to the annotation url like this: **ylaudio://some-website.com:audio.mp3?modal=1**. This will open the audio player in fullscreen mode.

The `ylaudio://` prefix also supports the **autostart** parameter which will cause the audio player to start playing immediately when the pdf page is displayed:
`ylaudio://some-website.com/audio.mp3?autostart=1`.

Web Pages

Use the prefix **`ylweb://`** to display a web page on a pdf page.

Example: **`ylweb://yakamozlabs.com`**

If you want to open a browser after a user has tapped a button you can add the optional **modal** parameter to the annotation url like this:

`ylweb://yakamozlabs.com?modal=1`.

Maps

Use the prefix **`ylmap://`** to display a map on a pdf page.

Example: **`ylmap://hybrid?lat=40.0&lon=30.0&slat=0.1&slon=0.1`**

The first parameter defines the map style and can be one of the following values: **hybrid, standard or satellite**.

The remaining four parameters are required:

- ▶ **lat** = latitude
- ▶ **lon** = longitude
- ▶ **slat** = span latitude (defines the zoom level of the map)
- ▶ **slon** = span longitude (defines the zoom level of the map)

CHANGELOG

Version: 1.0 **Release Date: 4/12/2012**

- Initial release!

Version: 1.1 **Release Date: 5/4/2012**

- Table of contents support.
- Text search and highlighting.

Version: 1.2 **Release Date: 5/28/2012**

- Search related small bugs fixed.
- Table of contents crash fixed.
- Initial annotations support: page links, web links, video and web pages.

Version: 1.3 **Release Date: 6/30/2012**

- Double page mode with left or right lead support.
- Page curl animations (only in iOS 5.0 and greater).
- Fixed TOC parsing bugs.

Version: 1.3.1 **Release Date: 7/24/2012**

- Fixed single-page pdf rendering bug.

Version: 1.4 **Release Date: 8/27/2012**

- Fixed search related bug.
- Added support for local video annotations.
- Added support for local/remote audio annotations.
- Added support for map annotations.
- Auto-layout feature to display single page in portrait mode and double page in landscape mode.

Version: 1.4.1 **Release Date: 10/9/2012**

- Load adjacent pages bug fixed.
- Improved performance on iPad 3.
- Fixed auto-layout related bug.

- Fixed cache related bug that prevented loading/rendering of pdf pages.
- Improved caching algorithm.

Version: 1.4.2 **Release Date: 10/22/2012**

- Fixed page-curl crash on iOS 6.

Version: 1.5 **Release Date: 11/21/2012**

- Bookmarks feature.
- Custom overlay annotations.
- Support for link annotations with mailto: prefix.
- Initial version of technical appledoc style documentation.

Version: 1.5.1 **Release Date: 12/25/2012**

- Fixed page-curl bug on documents with only 2 pages.
- Show busy indicator while searching.
- Added delegate method to notify when the done button is tapped.

Version: 1.5.2 **Release Date: 01/18/2013**

- Fixed bug that would prevent the rendering of thumbnail images.

Version: 1.5.3 **Release Date: 01/22/2013**

- Fixed bug in PDF outline parser that would skip some entries with unicode characters.

Version: 1.5.4 **Release Date: 02/11/2013**

- Improved page shadows in double page mode with page-curl enabled.
- Performance improvements in rendering of PDF pages. PDFTouch uses less memory now when rendering complex PDF files.

Version: 2.0 **Release Date: 03/13/2013**

- New search engine that works with all font types!
- Improved page rendering technique that prevents blurry text in some PDF files.

Version: 2.0.1**Release Date: 03/19/2013**

- Added the missing armv7s architecture to the framework which contained armv7 and i386 only.

Version: 2.0.2**Release Date: 03/27/2013**

- Improved the text highlighting implementation used to highlight search results.
- Updated the custom bash build script in Xcode which creates the binary PDFTouch.framework so that it preserves symbolic links. This will decrease the size of the binary framework.
- Fixed text highlighting bug for composite fonts.
- Added support for external CMAP files which are used by some PDF files for Korean, Chinese and Japanese languages.
- Added support to query metadata embedded in the PDF file. Supported metadata keys are: title, author, subject, keywords, creator, producer, creation date, modification date and PDF version.

Version: 2.0.3**Release Date: 04/16/2013**

- Fixed missing metadata implementation.
- Fixed display issues of PDF files which have different page sizes.
- Fixed 1 pixel jump when zoomed in.
- Fixed bug in composite font text extraction.
- Fixed bug in parsing width array of composite fonts.
- Improved search performance for the standard 14 fonts.
- Fixed bug in YLCache that would crash when removing KVO observers twice.
- Fixed minor issues related to embedding YLPDFViewController in another view controller.
- Added new examples to demo app.
- Added new properties to hide dismiss button, change it's text and style.
- Added new property to hide/show the navigation bar.

Version: 2.1**Release Date: 04/24/2013**

- Fixed annotation rectangle calculation bug.

- Hide popover on iPad when switching to thumbnails mode.
- Added search support for PDF files that use a global “Resources” dictionary.
- Prevent too small thumbnail calculations for PDF files with unusual page sizes.
- Display the correct page when switching from double page landscape mode to single page portrait mode.

Version: 2.1.1

Release Date: 05/13/2013

- Fixed small bug in popover handling on iPad.
- Fixed text highlighting issues for some fonts.
- Send hide annotations event when page is changed using the mini thumbnail toolbar.
- Stop video playback when switching to thumbnail mode.
- Fixed video playback issues when switching to fullscreen and back.
- Fixed backwards page flipping animation glitches.

Version: 2.1.2

Release Date: 06/21/2013

- Fixed KVO removing bug in YLPDFViewController.
- Fixed text highlighting issues for some fonts.
- Fixed memory related bug in outline parser.

Version: 2.2

Release Date: 09/24/2013

- Fixed search for PDF files which use a global font resources dictionary.
- Fixed a search related bug for PDF files which use external CMAP files.
- iOS 7 compatibility.

Version: 2.2.1

Release Date: 10/01/2013

- Added the missing iOS 7 related changes to the search and outline view controllers on the iPhone.

Version: 2.2.2

Release Date: 10/22/2013

- Added two new properties to YLPDFViewController that return a reference to the top and bottom toolbar.

- Added boolean properties to YLPDFViewController to enable/disable the search, outline and bookmark buttons.
- Added support for translations. The default (English) translation file is in PDFTouch.bundle's en.lproj folder.
- Added search support for Chinese/Japanese/Korean PDF files that use multiple CMAP files.

Version: 2.2.3

Release Date: 11/08/2013

- Auto-hide TOC button when there's no TOC available in the PDF file.
- Boolean properties to enable/disable toolbar buttons will now update the toolbar on the fly.

Version: 2.3

Release Date: 01/09/2014

- Dropped support for iOS 5. PDFTouch SDK now supports iOS SDK 6.0 and later.
- Added support for the 64 bit architectures: arm64 and x86_64.
- Added delegate method to customize the appearance of annotations before they are displayed.
- Fixed page misalignment after selecting a search result (only occurred on the iPhone with page curl disabled).