



# DEVELOPER GUIDE

## Foxit PDF SDK

*Windows Universal Platform on Windows 10*

**Microsoft**® Partner

Gold Independent Software Vendor (ISV)

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# 1 Introduction to Foxit PDF SDK

## 1.1 Foxit PDF SDK

Foxit PDF SDK provides high-performance libraries to help any software developer add robust PDF functionality to their enterprise, mobile and cloud applications across all platforms (includes Windows, Mac, Linux, Web, Android, iOS, and UWP), using the most popular development languages and environments.

Application developers who use Foxit PDF SDK can leverage Foxit's powerful, standard-compliant PDF technology to securely display, create, edit, annotate, format, organize, print, share, secure, search documents as well as to fill PDF forms. Additionally, Foxit PDF SDK includes a built-in, embeddable PDF Viewer, making the development process easier and faster. For more detailed information, please visit the website <https://developers.foxitsoftware.com/pdf-sdk/>.

In this guide, we focus on the introduction of Foxit PDF SDK for UWP platform.

## 1.2 Foxit PDF SDK for UWP

Have you ever worried about the complexity of the PDF specification? Or have you ever felt lost when asked to build a full-featured PDF app within a limited time-frame? If your answer is "Yes", then congratulations! You have just found the best solution in the industry for rapidly integrating PDF functionality into your apps.

Foxit PDF SDK for UWP focuses on helping developers easily integrate powerful Foxit PDF technology into their own apps. With this SDK, even developers with a limited knowledge of PDF can quickly build a professional PDF viewer with just a few lines of code on Universal Windows Platform (UWP) for Windows 10.

### 1.2.1 Why Foxit PDF SDK for UWP is your choice

Foxit is an Amazon-invested leading software provider of solutions for reading, editing, creating, organizing, and securing PDF documents. Foxit PDF SDK libraries have been used in many of today's leading apps, and they are proven, robust, and battle-tested to provide the quality, performance, and features that the industry's largest apps demand.

Foxit PDF SDK for UWP provides quick PDF viewing and manipulation support for Windows 10 Universal Windows Platform. Customers choose it for the following reasons:

- **Easy to integrate**

Developers can seamlessly integrate the SDK into their own apps with just a few lines of code.

- **Perfectly designed**

Foxit PDF SDK for UWP is designed with a simple, clean, and friendly style, which provides the best user experience.

- **Flexible customization**

Foxit PDF SDK for UWP provides the source code for the user interface which lets the developers have full control of the functionality and appearance of their apps.

- **Robust performance on mobile platforms**

Foxit PDF SDK for UWP provides an OOM (out-of-memory) recovery mechanism to ensure the app has high robust performance when running the app on a mobile device which offers limited memory.

- **Powered by Foxit's high fidelity rendering PDF engine**

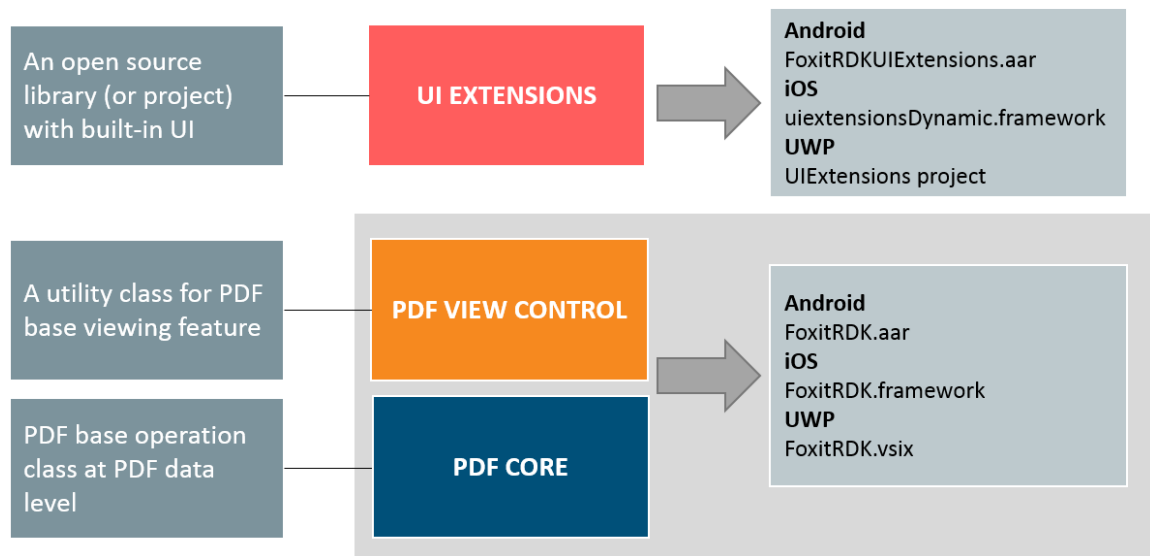
The core technology of the SDK is based on Foxit's PDF engine, which is trusted by a large number of the world's largest and well-known companies. Foxit's powerful engine makes the app fast on parsing, rendering, and makes document viewing consistent on a variety of devices.

- **Premium World-side Support**

Foxit offers premium support for its developer products because when you are developing mission critical products you need the best support. Foxit has one of the PDF industry's largest team of support engineers. Updates are released on a regular basis to improve user experience by adding new features and enhancements.

### 1.2.2 Main Frame of Foxit PDF SDK for UWP

Foxit PDF SDK for UWP consists of three elements as shown in the following picture. This structure is shared between all mobile platform versions of Foxit PDF SDK, which makes it easier to integrate and support multiple mobile operating systems and frameworks in your apps.



*The three elements of Foxit PDF SDK for Android, iOS and UWP*

- **PDF Core API**

The PDF Core API is the heart of this SDK and is built on Foxit's powerful underlying technology. It provides the functionality for basic PDF operation features, and is utilized by the PDF View Control and UI Extensions project, which ensures the apps can achieve high performance and efficiency. The Core API can be used independently for document rendering, analysis, text extraction, text search, form filling, annotation creation and manipulation and much more.

- **PDF View Control**

The PDF View Control is a utility class that provides the functionality for developers to interact with rendering PDF documents per their requirements. With Foxit's renowned and widely used PDF rendering technology at its core, the View Control provides fast and high-quality rendering, zooming, scrolling and page navigation features. The View Control derives from platform related viewer classes and allows for extension to accommodate specific user needs.

- **UI Extensions Project**

The UI Extensions Project is an open source project that provides a customizable user interface with built-in support for text selection, markup annotation, outline navigation, form filling, text reflow, and document editing. These features in the UI Extensions are implemented using the PDF Core API and PDF View Control. Developers can utilize these ready-to-use UI implementations to build a PDF viewer quickly with the added benefit of complete flexibility and control to customize the UI design as desired.

### 1.2.3 Key Features of Foxit PDF SDK for UWP

Foxit PDF SDK for UWP has several main features which help app developers quickly implement the functions that they really need and reduce the development cost.

#### Features

<b>PDF Document</b>	Open and close files, set and get metadata.
<b>PDF Page</b>	Parse, render, read, and edit PDF pages.
<b>Render</b>	Graphics engine created on a bitmap for platform graphics device.
<b>Reflow</b>	Rearrange page content.
<b>Text Select</b>	Search text in a PDF document
<b>Text Search</b>	Search text in a PDF document.
<b>Bookmark(Outline)</b>	Directly locate and link to point of interest within a document.
<b>Annotation</b>	Create, edit and remove annotations.
<b>Form</b>	Fill form with JavaScript support, export and import form data by XFDF/FDF/XML file.
<b>Out of Memory</b>	Recover from an OOM condition.

**Note** *Outline is the technical term used in the PDF specification for what is commonly known as bookmarks in traditional desktop PDF viewers. Reading bookmarks are commonly used on mobile and tablet PDF viewers to mark progress and interesting passages as users read but are not technically outline and are stored at app level rather than within the PDF itself.*

## 1.3 Evaluation

Foxit PDF SDK allows users to download trial version to evaluate SDK. The trial version has no difference from the standard licensed version except for the free trial limitation and the trial watermarks in the generated pages. After the evaluation period expires, customers should contact the Foxit sales team and purchase licenses to continue using Foxit PDF SDK.

## 1.4 License

Developers should purchase licenses to use Foxit PDF SDK in their solutions. Licenses grant developers permission to release their apps which utilize Foxit PDF SDK. However, users are prohibited to distribute

any documents, sample code, or source code in the released package of Foxit PDF SDK to any third party without written permission from Foxit Software Incorporated.

## 1.5 About this Guide

This guide is intended for the developers who need to integrate Foxit PDF SDK for UWP into their own apps for both PC/tablet and Windows Phone. It aims at introducing the following sections:

- Section 1: gives an introduction of Foxit PDF SDK, especially for UWP SDK.
- Section 2: illustrates the package structure, running demo.
- Section 3: describes how to quickly create a full-featured PDF Reader.
- Section 4: provides support information.

## 2 Getting Started

It is very easy to setup Foxit PDF SDK and see it in action! It takes just a few minutes and we will show you how to integrate it with Universal Windows Platform (UWP) apps on Windows 10. The following sections introduce the structure of the installation package, how to run a demo, and how to create your own project.

### 2.1 System Requirements

#### **Windows 10 Universal Apps:**

Windows 10

Visual Studio 2015 or later (with Universal Windows App Development Tools) installed

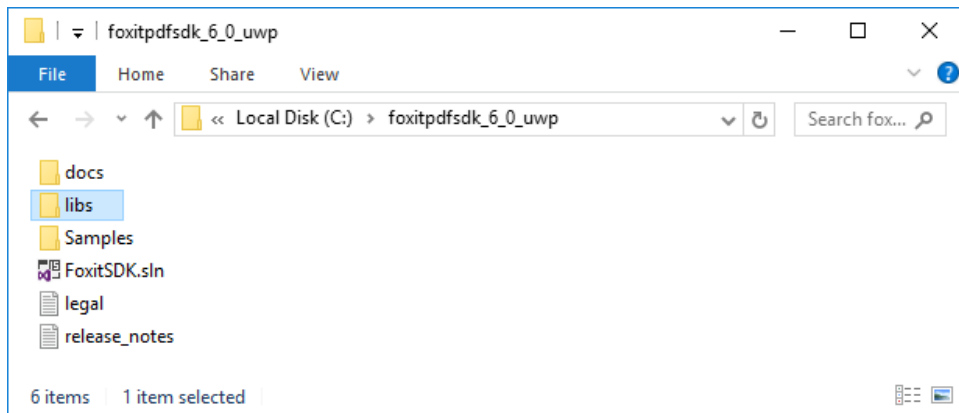
The release package includes arm, x64 and x86 dynamic link libraries for Windows 10 Universal app.

### 2.2 What is in the Package

Download the "foxitpdfsdk\_6\_0\_uwp.zip" package, and extract it to a new directory like "foxitpdfsdk\_6\_0\_uwp" as shown in Figure 2-1. The package contains:

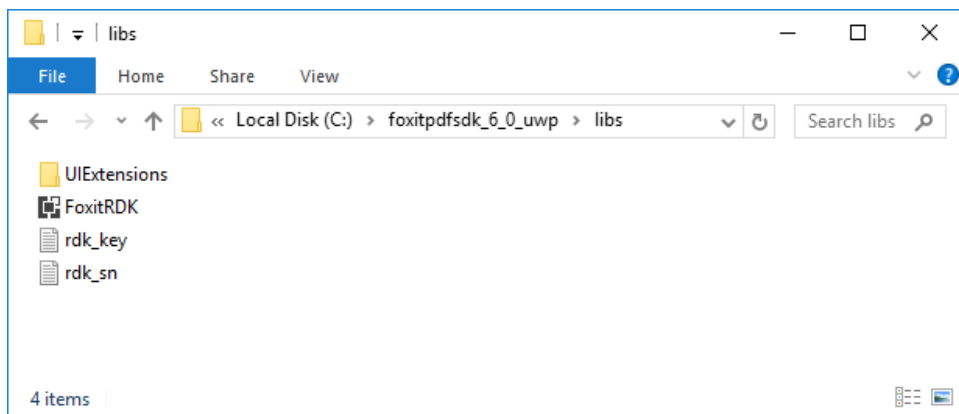
<b>docs:</b>	A folder containing API references, developer guide.
<b>libs:</b>	A folder containing license files, FoxitRDK.vsix, and UI Extensions project.
<b>samples:</b>	A folder containing UWP sample projects.
<b>FoxitSDK.sln</b>	A solution file for the demos.
<b>legal.txt:</b>	Legal and copyright information.
<b>release_notes.txt:</b>	Release information.





**Figure 2-1**

In the "libs" folder as shown in Figure 2-2, there are items that make up the core components of Foxit PDF SDK for UWP.



**Figure 2-2**

- ***FoxitRDK.vsix*** - The extension package.
- ***UIExtensions*** project - It is an open source project that contains the UI implementations for the basic UI of app and the ready-to-use feature module UI, which can help developers rapidly embed a fully functional PDF reader into their UWP app. Of course, developers are not forced to use the default UI, they can freely customize and design the UI for their specific apps through the "UIExtensions" project.

At this point you should just be getting a feel for what Foxit PDF SDK package looks like, we're going to cover everything in detail in a bit.

## 2.3 How to run a demo

Download and install Visual Studio IDE (<https://www.visualstudio.com/>).

**Note:** In this guide, we will run the demos in Visual Studio 2017. This guide does not cover the installation of Visual Studio. You can refer to Visual Studio's developer site if you haven't installed it already.

Foxit PDF SDK for Universal Windows Platform (UWP) on Windows 10 provides two useful demos for developers to learn how to call the SDK as shown in Figure 2-3

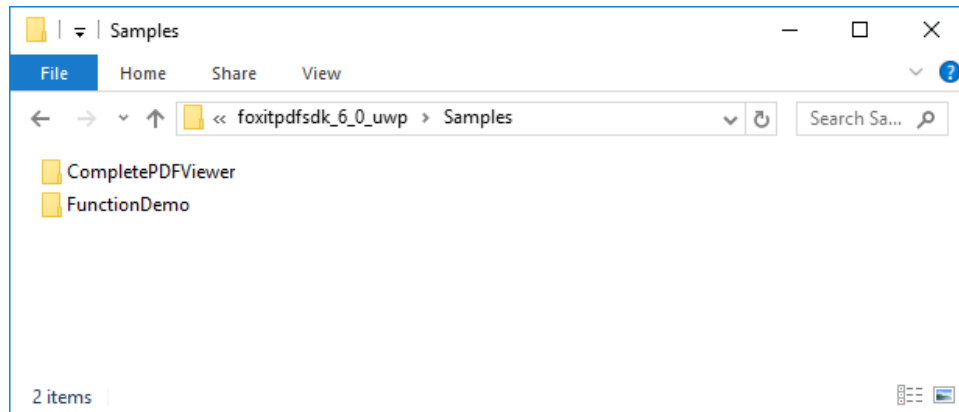


Figure 2-3

### Install Foxit PDF SDK extension

To run the demos in Visual Studio 2017, Foxit PDF SDK extension should be installed at first.

Double-click **FoxitRDK.vsix** in the "lib" folder, click on **Install** in the "VSIX Installer" dialog to allow Foxit PDF SDK extension to be installed (see Figure 2-4). Note: Before installing Foxit PDF SDK extension, please close Visual Studio.

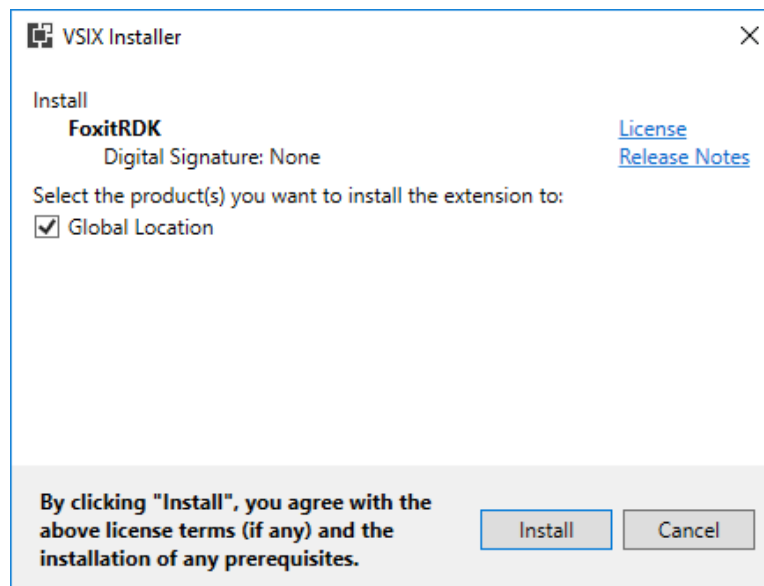


Figure 2-4

**Note:** If you already have a version of Foxit PDF SDK for UWP installed, you might get an error message stating "**This extension is already installed to all applicable products.**" In this case, please uninstall the old version in Visual Studio 2017 by following the steps:

- a) Open menu "**Tools -> Extensions and Updates....**", under the menu **Installed -> All**, you should be able to find "**FoxitRDK**" extension. Select it and click **Uninstall**.
- b) Close Visual Studio, then the "VSIX Installer" dialog will pop up as shown in Figure 2-5. Click **Modify** to uninstall the extension.

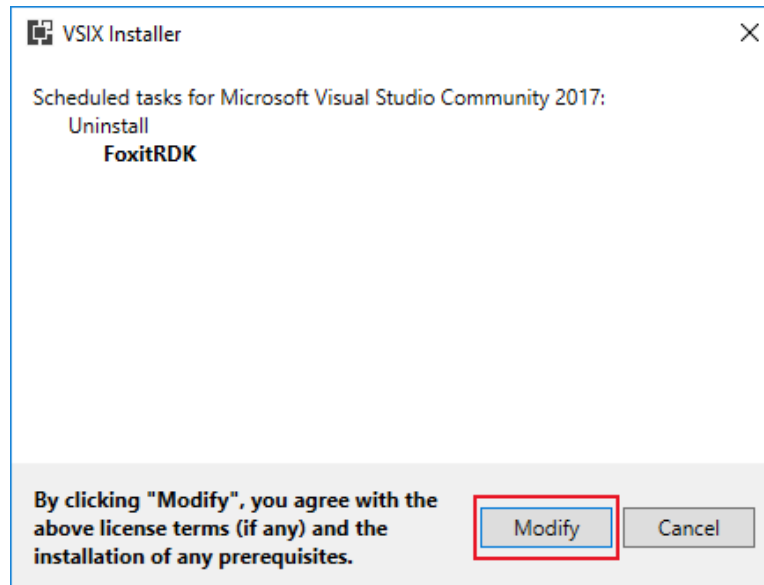


Figure 2-5

### 2.3.1 Function demo

The function demo is provided to show how to use Foxit PDF SDK for UWP to realize some specific features related to PDF with PDF core API. This demo includes the following features:

- **pdf2txt:** extract text from a PDF document to a TXT file.
- **outline:** edit outline (aka bookmark) appearances and titles.
- **annotation:** add annotations to a PDF page.
- **docinfo:** export document information of a PDF to a TXT file.
- **render:** render a specified page to Bitmap.

To run it in Visual Studio 2017, follow the steps below: (in this guide, we use the local machine with x86 as an example to run the demos)

- a) Refer to "[Install Foxit PDF SDK extension](#)" to install SDK extension.
- b) Open **FoxitSDK.sln** in Visual Studio 2017. Then check whether Foxit PDF SDK extension has already been installed successfully in Visual Studio. Click on **Tools -> Extensions and Updates...** in the menu of Visual Studio, you will see the installed extension as shown in Figure 2-6.

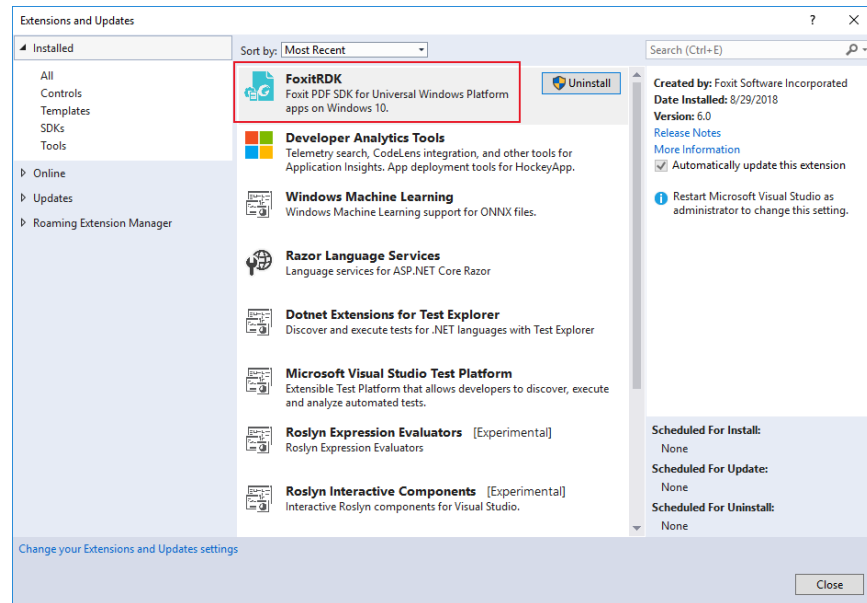


Figure 2-6

**Note:** If you Open **FoxitSDK.sln** in Visual Studio 2015 to run the demos, you should change the **Platform Toolset** to Visual Studio 2015 (V140). Right-click the demo project in the solution explorer, select **Properties**. In the Property Pages dialog, select **General -> Platform Toolset**, and choose Visual Studio 2015 (V140). (See Figure 2-7)

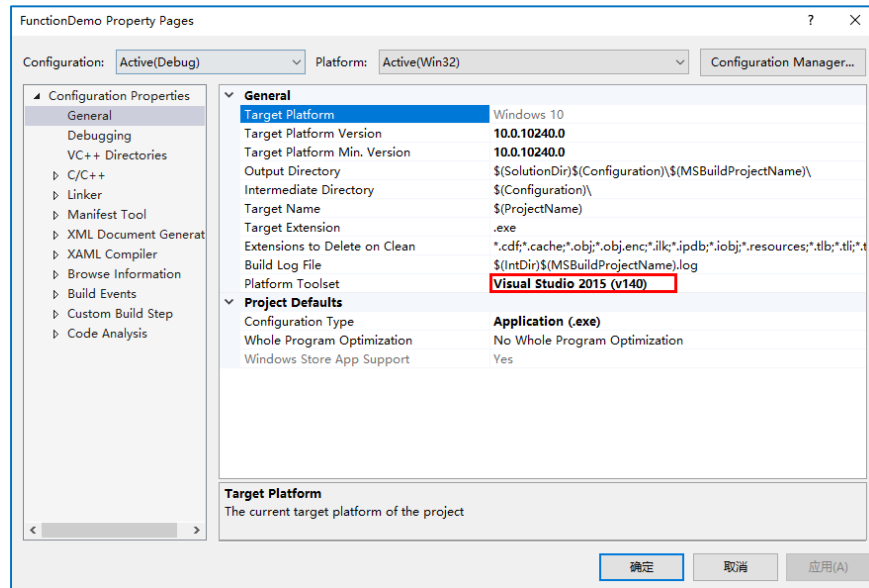


Figure 2-7

- c) Change the build architecture of the project. Click on **Build -> Configuration Manager** and choose **x86** for "Active solution platform" as shown in Figure 2-8.

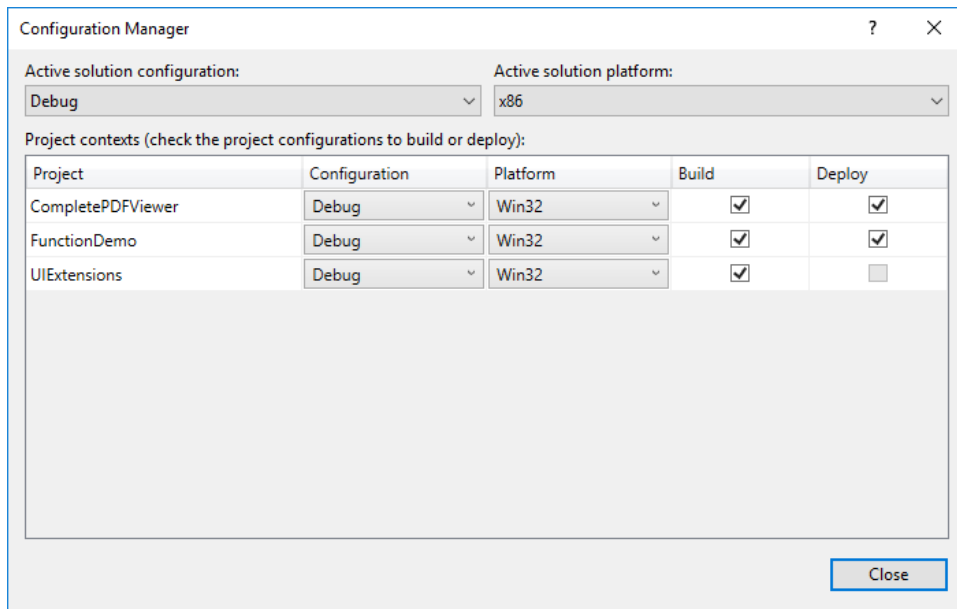
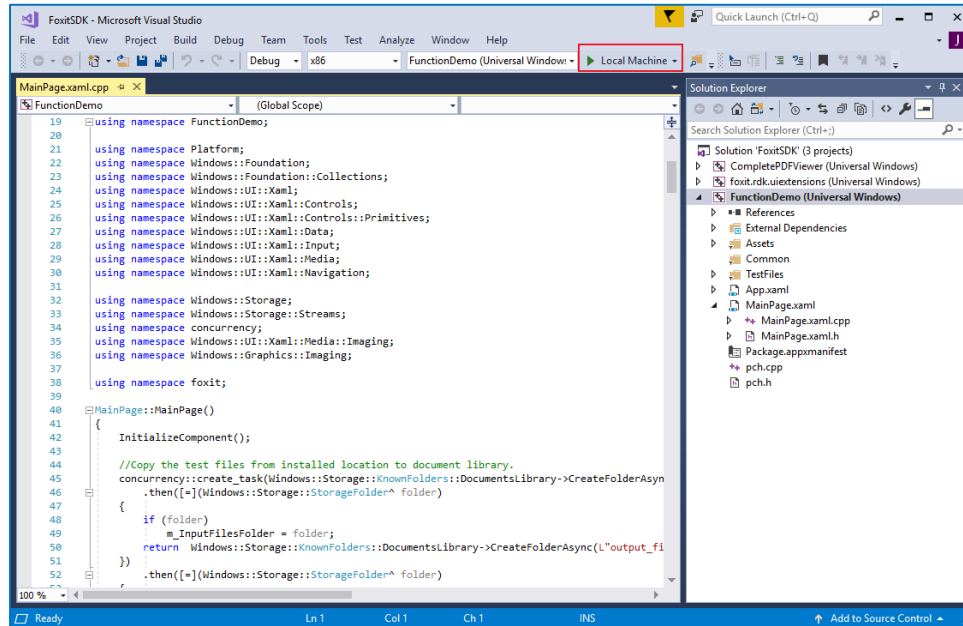


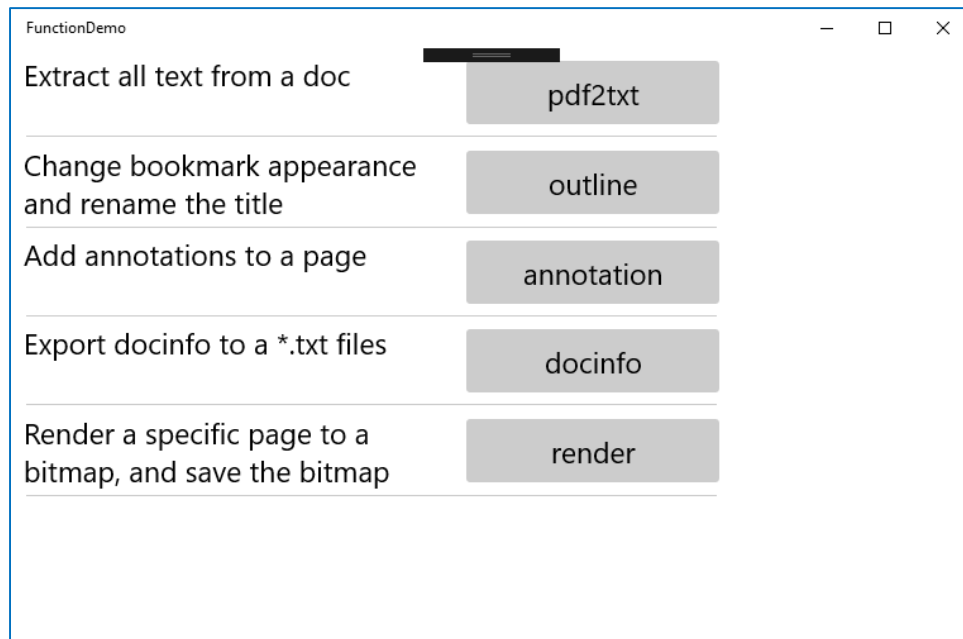
Figure 2-8

**Note:** There are three active solution platforms: x86, x64, and arm. You should choose the proper platform for the build architecture according to the system you used to run the project. For example, if you will run the demo in an arm device, please choose ARM for "Active solution platform".

- d) Right-click the project "**FunctionDemo**" and select "Set as StartUp Project".
- e) Click on **Local Machine** as shown in Figure 2-9 to build and run the demo. The screenshot of the demo is shown in Figure 2-10.



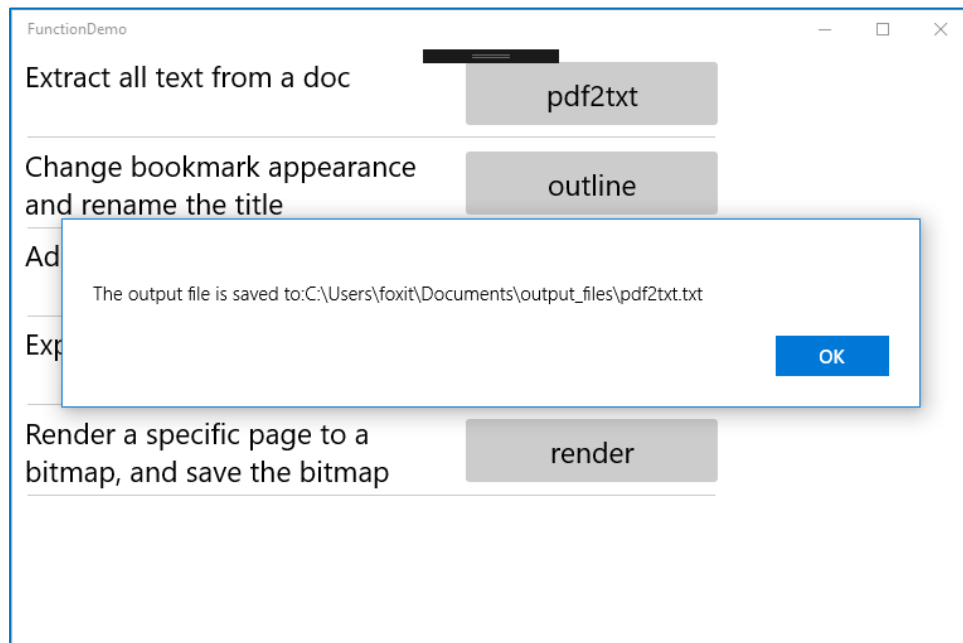
**Figure 2-9**



**Figure 2-10**

- f) Click the feature buttons in the above picture to perform the corresponding actions. For

example, click "pdf2txt", and then a message box will be popped up as shown in Figure 2-11. It shows where the text file was saved to. Just run the demo and try the features.



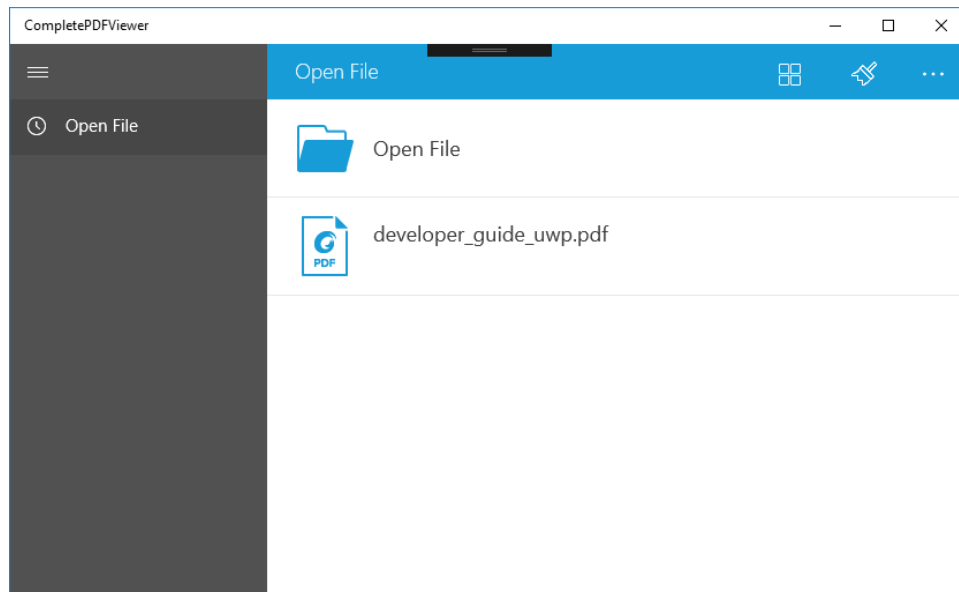
**Figure 2-11**

### 2.3.2 Complete PDF viewer demo

The complete PDF viewer demo demonstrates how to use Foxit PDF SDK for UWP to realize a completely full-featured PDF viewer which is almost ready-to-use as a real world mobile PDF reader. This demo utilizes all of the features and built-in UI implementations which are provided in Foxit PDF SDK.

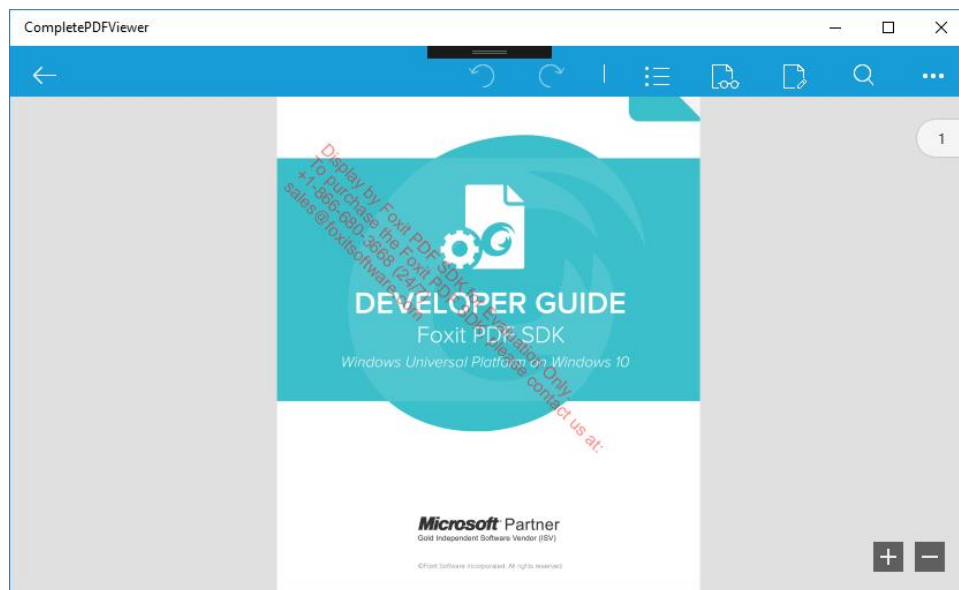
To run the demo in Visual Studio 2017, please refer to the setup steps outlined in the [Function demo](#).

Right-click the project "**CompletePDFViewer**" and select "Set as StartUp Project". Press F5 to build and run the demo. After building the demo successfully, on the start screen, it lists the "developer\_guide\_uwp.pdf" document (see Figure 2-12).




**Figure 2-12**

Click the "developer\_guide\_uwp.pdf" document, and then it will be opened and displayed as shown in Figure 2-13.



**Figure 2-13**

This demo realizes a completely full-featured PDF viewer, please feel free to run it and try it.

For example, it provides the page thumbnail feature. You can click  at the top bar, choose the **Thumbnail** as shown in Figure 2-14, and then the thumbnail of the document will be displayed as shown in Figure 2-15.



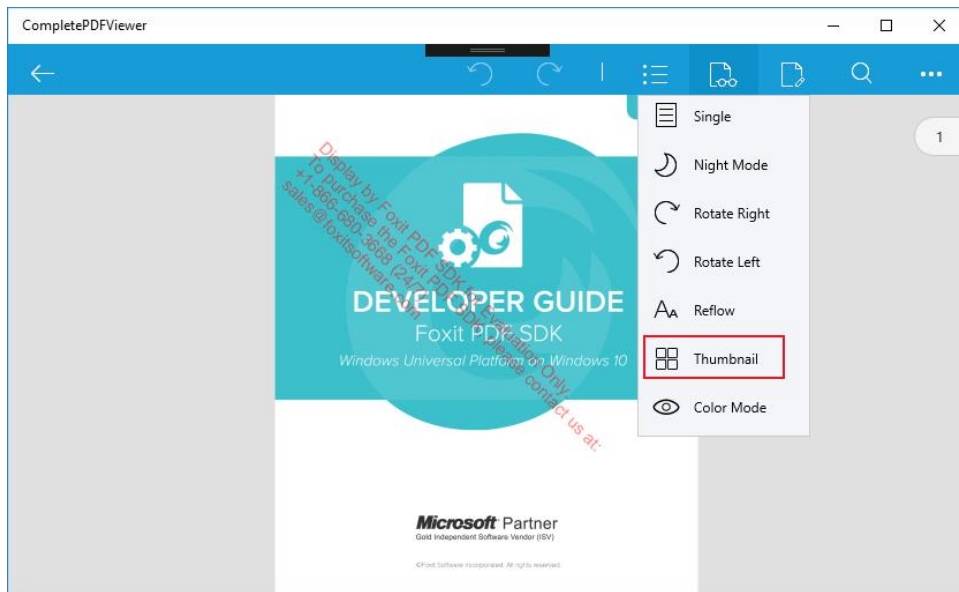


Figure 2-14

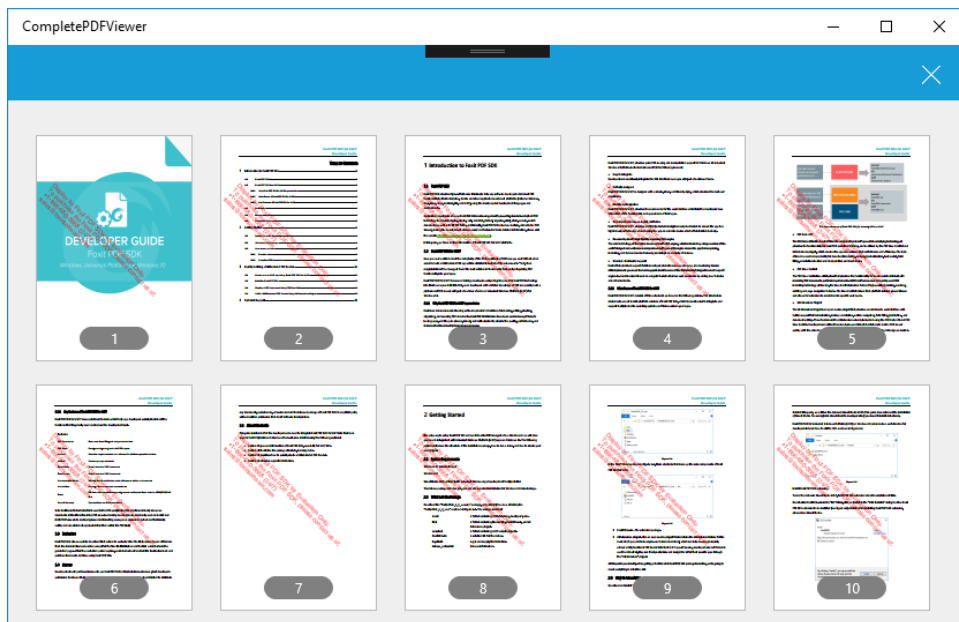


Figure 2-15

## 3 Rapidly building a full-featured PDF Reader

Foxit PDF SDK for UWP wrapped all of the UI implementations including the basic UI for app and ready-to-use UI feature modules to UI Extensions project, so that developers can easily and rapidly build a full-featured PDF Reader with just a few lines of code. This section will help you to quickly get started with using Foxit PDF SDK for UWP to make a full-featured PDF Reader app with step-by-step instructions provided. It includes the following steps:

- [Create a new UWP app Using Foxit PDF SDK for UWP](#)
- [Initialize Foxit PDF SDK](#)
- [Display a PDF document Using PDFViewCtrl](#)
- [Build a full-featured PDF Reader Using UI Extensions Project](#)

### 3.1 Create a new UWP app Using Foxit PDF SDK for UWP

In this guide, we will create a new UWP project in Visual Studio 2017, and use local machine with x86 as an example to run the project.

- 1) Create a new project in Visual Studio 2017.

Open Visual Studio 2017, choose **File -> New -> Project...** to start the **New Project** wizard. Create a new Windows Universal project called "PDFReader", and we will be using Visual C++ and a blank app, which is shown in Figure 3-1.

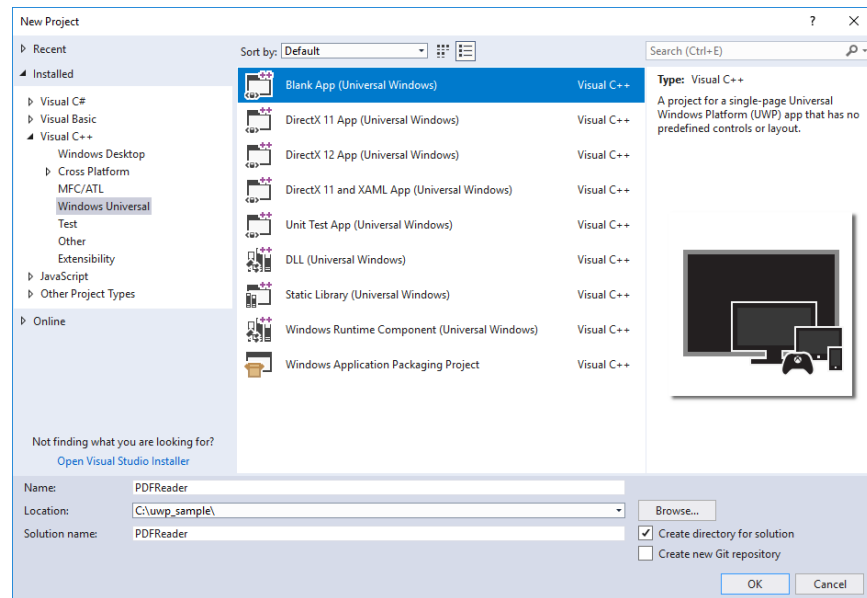


Figure 3-1

**Note:** Foxit PDF SDK for UWP ships with simple-to-use APIs that can be accessed from Visual C++, Visual C#, Visual Basic, JavaScript, and other languages that support the Windows Runtime. This project uses Visual C++ because the UI Extensions Component is coded by Visual C++.

2) Add **FoxitRDK** extension to References.

In order to use **FoxitRDK** extension in the project, you must first add a reference to it. In the **Solution Explorer**, right-click the **References** node and select **Add Reference...** as shown in Figure 3-2.

**Note:** If you have not installed **FoxitRDK.vsix** extension, please refer to "[Install Foxit PDF SDK extension](#)" to install it at first.

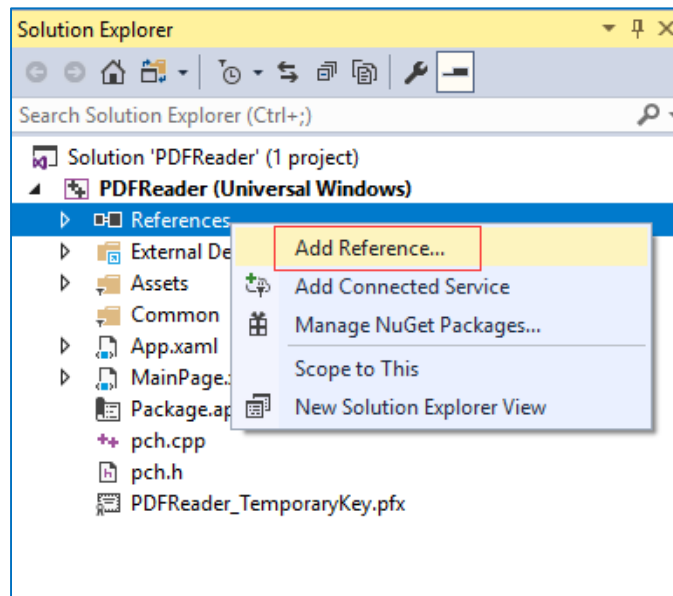


Figure 3-2

In the Add Reference dialog, select **Universal Windows** -> **Extensions** tab, check the box next to "FoxitRDK", and then click **OK**. It is shown in Figure 3-3.

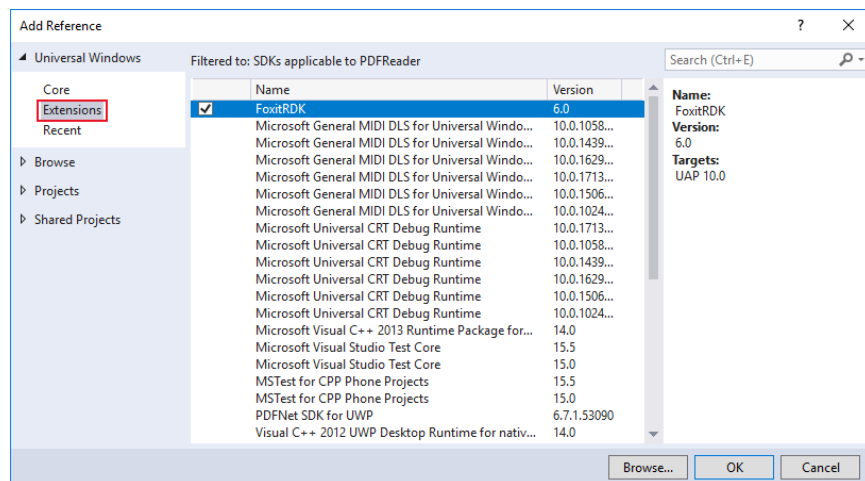
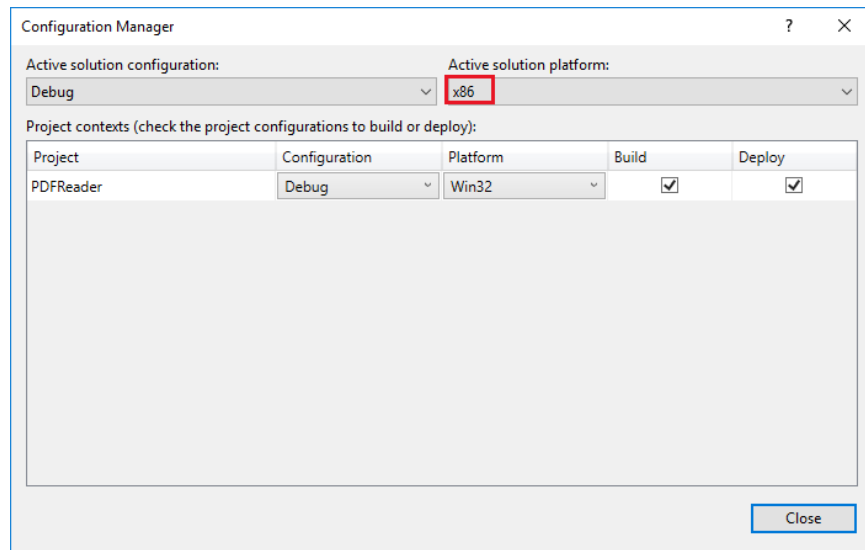


Figure 3-3

- 3) Change the build architecture of the project.

Click on **Build** -> **Configuration Manager** and select **x86** for "Active solution platform" as shown in Figure 3-4.



**Figure 3-4**

**Note:** There are three active solution platforms: x86, x64, and arm. You should choose the proper platform for the build architecture according to the system you used to run the project. For example, if you will run the demo in an arm device, please choose ARM for "Active solution platform".

## 3.2 Initialize Foxit PDF SDK

It is necessary for apps to initialize and unlock Foxit PDF SDK using a license before calling any APIs. The function **foxit::common::Library::Initialize(sn, key)** is provided to initialize Foxit PDF SDK. The trial license files can be found in the "libs" folder of the download package. After the evaluation period expires, you should purchase an official license to continue using it. Finish the initialization at the end of the **App::OnLaunched** function within the **App.xaml.cpp** file.

```
// Initialize Foxit PDF SDK.
String^ sn = " ";
String^ key = " ";
foxit::common::Library::Initialize(sn, key);
```

**Note** The value of "sn" can be found in the "**rdk\_sn.txt**" (the string after "SN=") and the value of "key" can be found in the "**rdk\_key.txt**" (the string after "Sign=").

## 3.3 Display a PDF document Using PDFViewCtrl

So far, we have added **FoxitRDK** extension as a reference and finished the initialization of the Foxit PDF SDK. Now, let's start displaying a PDF document using **PDFViewCtrl** with just a few lines of code.

- 1) Add a **PDFViewCtrl** to display a PDF document.

Open up "MainPage.xaml", update the whole file as follows:

```
<Page
  x:Class="PDFReader.MainPage"
  xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
  xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
  xmlns:local="using:PDFReader"
  xmlns:rdkcontrol="using:foxit.rdk"
  xmlns:d="http://schemas.microsoft.com/expression/blend/2008"
  xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"
  mc:Ignorable="d">

  <Grid Background="{ThemeResource ApplicationPageBackgroundThemeBrush}">
    <UserControl x:Name="HostContent" Grid.Row="0">
      <rdkcontrol:PDFViewCtrl x:Name="PDFViewControl">
        <Grid>
          <Button Content="Open File" FontSize="20" HorizontalAlignment="Left"
            VerticalAlignment="Top" Click="OpenFileButton_Click"/>
        </Grid>
      </rdkcontrol:PDFViewCtrl>
    </UserControl>
  </Grid>
</Page>
```

Here, we add a button with a click event "OpenFileButton\_Click" to open a PDF document, and add a PDFViewCtrl to display the PDF document.

- 2) Declare and implement "OpenFileButton\_Click" function.

Open up "MainPage.xaml.h", declare the "OpenFileButton\_Click" function as follows:

```
#pragma once

#include "MainPage.g.h"

namespace PDFReader
{
    /// <summary>
    /// An empty page that can be used on its own or navigated to within a Frame.
    /// </summary>
    public ref class MainPage sealed
    {
    public:
        MainPage();

    private:
        void OpenFileButton_Click(Platform::Object^ sender,
            Windows::UI::Xaml::RoutedEventArgs^ e);
    };
}
```

Open up "MainPage.xaml.cpp", implement the "OpenFileButton\_Click" function as follows:

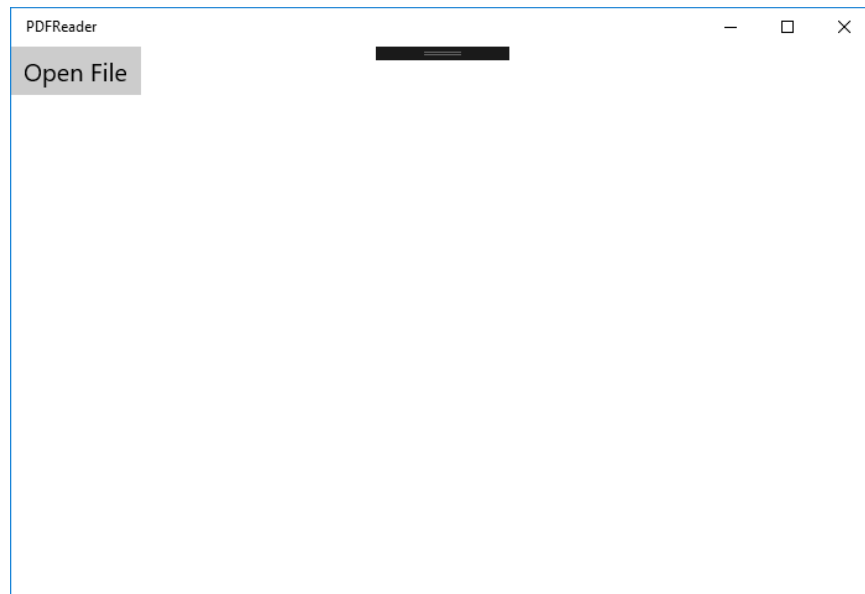
```
void PDFReader::MainPage::OpenFileButton_Click(Platform::Object^ sender,
    Windows::UI::Xaml::RoutedEventArgs^ e)
{
    // ...
}
```

```
Windows::Storage::Pickers::FileOpenPicker^ openPicker = ref new
Windows::Storage::Pickers::FileOpenPicker();
openPicker->ViewMode = Windows::Storage::Pickers::PickerViewMode::Thumbnail;
openPicker->SuggestedStartLocation =
Windows::Storage::Pickers::PickerLocationId::DocumentsLibrary;
openPicker->FileTypeFilter->Append(".pdf");

concurrency::create_task(openPicker->PickSingleFileAsync())
    .then([this](Windows::Storage::StorageFile^ file)
    {
        if (file)
        {
            PDFViewControl->OpenDocAsync(file, "");
        }
    });
}
```

Inside the "OpenFileButton\_Click" function, get a PDF document from the file picker, and call **OpenDocAsync** interface to display the PDF document.

- 3) Click on **Local Machine** to build and run the project. The screenshot of the project is shown in Figure 3-5.



**Figure 3-5**

Click on **Open File** to choose and open a PDF document. For example, we choose the "sample.pdf" in the "Samples\FunctionDemo\TestFiles" folder, and then it will be displayed as shown in Figure 3-6.

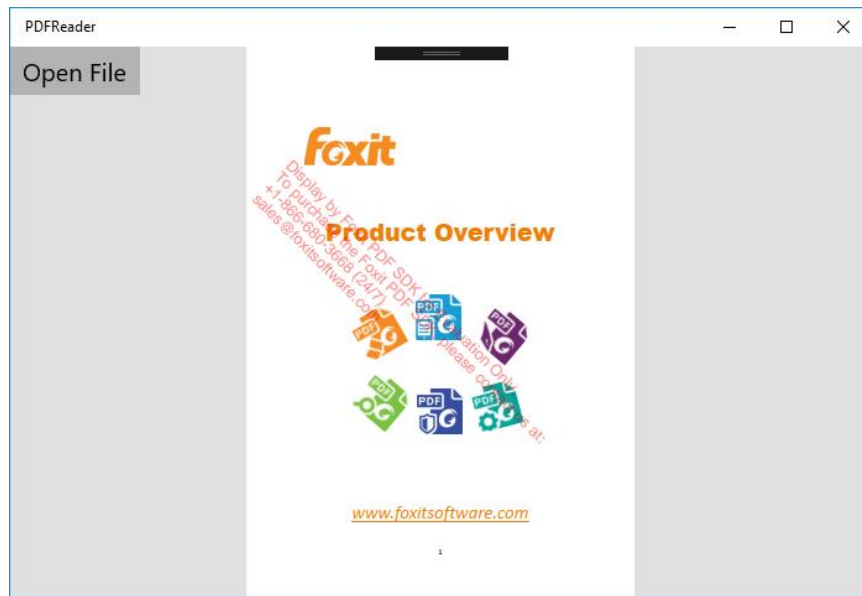


Figure 3-6

**Note:** If you cannot open PDF files, you should add File Type Associations Declarations in the "**Package.appxmanifest**" file.

Double click **Package.appxmanifest** in the project, find **Declarations**, and add a File Type Associations as shown in Figure 3-7.

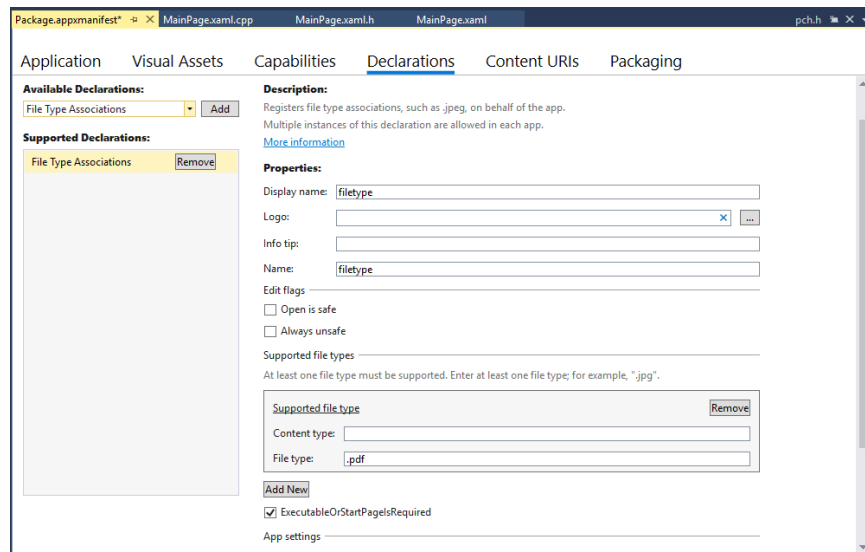


Figure 3-7

Now, we have finished displaying a PDF document using PDFViewCtrl. At that time, the PDFReader app is just a very basic PDF document viewer. You can only view or zoom in/out the PDF document. If you want to build a full-featured PDF Reader app, just follow the steps in the next section.

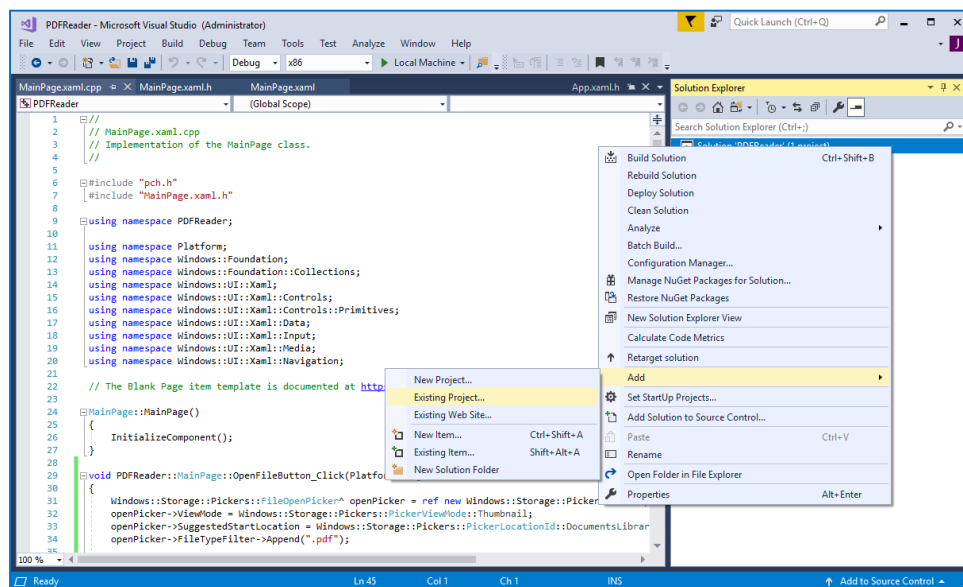


### 3.4 Build a full-featured PDF Reader Using UI Extensions Project

The UI Extensions project contains all of the UI implementations including the basic UI for app and the feature modules UI. Hence, building a full-featured PDF Reader is getting simpler and easier. Let's try it just now.

- 1) Add "**UIExtensions**" project in the "libs" folder of the download package to the solution.

In the solution explorer, right-click on the **PDFReader** solution and select **Add -> Existing Project...**, navigate to the folder where the "foxitpdfsdk\_6.0\_uwp.zip" was unzipped, open the "UIExtensions" folder in the "libs" folder, then select "UIExtensions.vcxproj". (See Figure 3-8 and Figure 3-9)



**Figure 3-8**

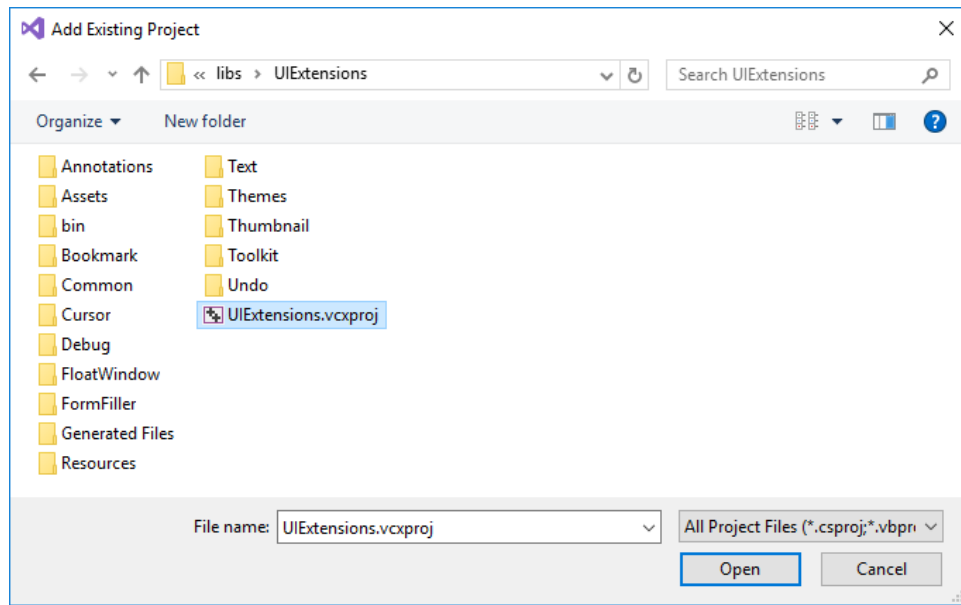


Figure 3-9

After adding the "UIExtensions" project, the solution should look like Figure 3-10.

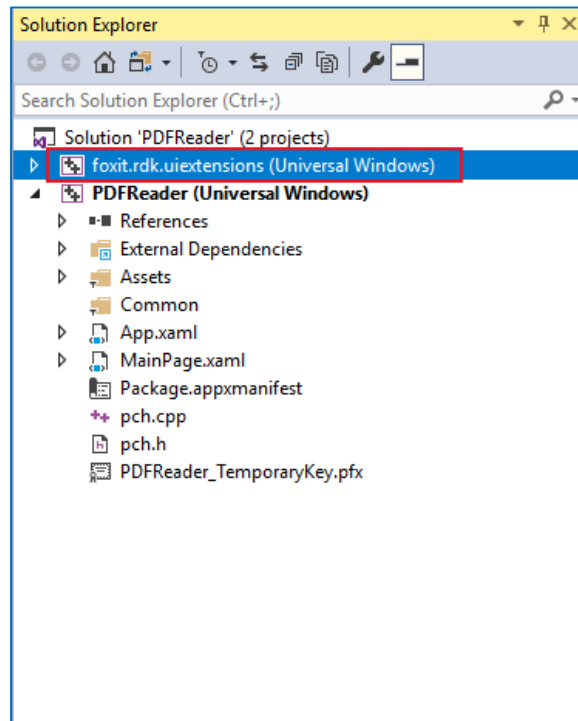
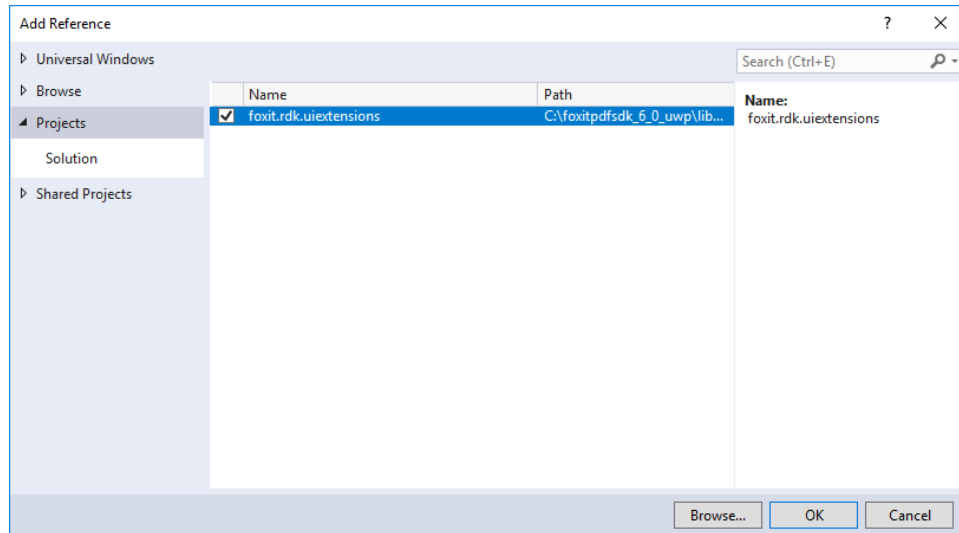


Figure 3-10

- 2) Add "foxit.rdk.uiextensions" project as a reference used by PDFReader. Do this in a similar way to how we added FoxitRDK extension.

In the **Solution Explorer**, in the **PDFReader** project, right-click the **References** node and select **Add Reference....** In the Add Reference dialog, select **Projects -> Solution** tab, find "foxit.rdk.uiextensions" in the list, check the box next to it and then click **OK**. (See Figure 3-11)



**Figure 3-11**

- 3) Build "foxit.rdk.uiextensions" project. Right-click the project, select **Build**.
- 4) Instantiate a UIExtensionsManager object and set it to PDFViewCtrl.

Open up "MainPage.xaml.h", declare a UIExtensionsManager object as follows:

```
private:
    foxit::rdk::uiextensions::UIExtensionsManager^ m_uiMgr;
```

Open up "MainPage.xaml.cpp", instantiate the UIExtensionsManager object and set it to PDFViewCtrl in the constructor of MainPage:

```
MainPage::MainPage()
{
    InitializeComponent();
    m_uiMgr = ref new foxit::rdk::uiextensions::UIExtensionsManager(PDFViewControl);
    PDFViewControl->ExtensionsManager = m_uiMgr;
}
```

- 5) Click on **Local Machine** to build and run the project.

Click on **Open File** to choose and open a PDF document. For example, we choose the "sample.pdf" in the "Samples\FunctionDemo\TestFiles" folder, and then it will be displayed as shown in Figure 3-12.



**Figure 3-12**

Now, a full-featured PDF Reader app which is similar to the Complete PDF viewer demo has been built. Feel free to try the features.

The "**foxit.rdk.uiextensions**" project has implemented the basic UI for app and the feature module UI, so that if you want to customize the UI for styling the appearance as desired, you can change the code in the UIExtensions project directly.

## Complete Program

This section shows the whole update of "MainPage.xaml.h" and "MainPage.xaml.cpp".

### MainPage.xaml.h

```
//  
// MainPage.xaml.h  
// Declaration of the MainPage class.  
//  
  
#pragma once  
  
#include "MainPage.g.h"  
  
namespace PDFReader  
{  
    /// <summary>  
    /// An empty page that can be used on its own or navigated to within a Frame.  
    /// </summary>  
    public ref class MainPage sealed  
    {  
    public:
```

```

        MainPage();

    private:
        void OpenFileButton_Click(Platform::Object^ sender,
Windows::UI::Xaml::RoutedEventArgs^ e);

    private:
        foxit::rdk::uiextensions::UIExtensionsManager^ m_uiMgr;

    };
}

```

### MainPage.xaml.cpp

```

//
// MainPage.xaml.cpp
// Implementation of the MainPage class.
//

#include "pch.h"
#include "MainPage.xaml.h"

using namespace PDFReader;

using namespace Platform;
using namespace Windows::Foundation;
using namespace Windows::Foundation::Collections;
using namespace Windows::UI::Xaml;
using namespace Windows::UI::Xaml::Controls;
using namespace Windows::UI::Xaml::Controls::Primitives;
using namespace Windows::UI::Xaml::Data;
using namespace Windows::UI::Xaml::Input;
using namespace Windows::UI::Xaml::Media;
using namespace Windows::UI::Xaml::Navigation;

// The Blank Page item template is documented at
https://go.microsoft.com/fwlink/?LinkId=402352&clcid=0x409

MainPage::MainPage()
{
    InitializeComponent();
    m_uiMgr = ref new foxit::rdk::uiextensions::UIExtensionsManager(PDFViewControl);
    PDFViewControl->ExtensionsManager = m_uiMgr;
}

void PDFReader::MainPage::OpenFileButton_Click(Platform::Object^ sender,
Windows::UI::Xaml::RoutedEventArgs^ e)
{
    Windows::Storage::Pickers::FileOpenPicker^ openPicker = ref new
Windows::Storage::Pickers::FileOpenPicker();
    openPicker->ViewMode = Windows::Storage::Pickers::PickerViewMode::Thumbnail;
    openPicker->SuggestedStartLocation =
Windows::Storage::Pickers::PickerLocationId::DocumentsLibrary;
    openPicker->FileTypeFilter->Append(".pdf");

    concurrency::create_task(openPicker->PickSingleFileAsync())
        .then([this](Windows::Storage::StorageFile^ file)
        {

```

```
        if (file)
        {
            PDFViewControl->OpenDocAsync(file, "");
        }
    });
}
```

## 4 Technical Support

### Reporting Problems

Foxit offers 24/7 support for its products and are fully supported by the PDF industry's largest development team of support engineers. If you encounter any technical questions or bug issues when using Foxit PDF SDK for UWP, please submit the problem report to the Foxit support team at <http://tickets.foxitsoftware.com/create.php>. In order to better help you solve the problem, please provide the following information:

- Contact details
- Foxit PDF SDK product and version
- Your Operating System and IDE version
- Detailed description of the problem
- Any other related information, such as log file or error screenshot

### Contact Information

You can contact Foxit directly, please use the contact information as follows:

#### Foxit Support:

- <http://www.foxitsoftware.com/support/>

#### Sales Contact:

- Phone: 1-866-680-3668
- Email: [sales@foxitsoftware.com](mailto:sales@foxitsoftware.com)

#### Support & General Contact:

- Phone: 1-866-MYFOXIT or 1-866-693-6948
- Email: [support@foxitsoftware.com](mailto:support@foxitsoftware.com)