PDF to Word

Software Development Kit

INVESTINTECH.COM

PDF SOLUTIONS

Contents:

1. Introduction

The main purpose of this document is to provide you with a detailed guide on how to get started with the PDF2Word Command Line Tool and how to use Sample Files for developing an application using the PDF2Word Shared library.

PDF2Word SDK is a complete package that comes with the following components:

- ❏ PDF2Word Command Line tool
- ❏ Shared resources library
- ❏ Sample files

1.1. System Requirements

The following are the requirements for using the PDF2Word SDK tools comfortably:

- ❏ Windows 7, Windows Server 2008 or newer
- ❏ x86 Architecture CPU
- ❏ 512 MiB or more of system RAM
- ❏ At least 100 MiB of Storage Space

Besides these requirements, for SDK Dynamic Link Library Sample files, it is also recommended to have a software Development Environment such as Visual Studio, Visual Studio Code, Eclipse, Borland Delphi or something similar.

1.2. Getting more information

Investintech.com, Inc. strives to provide the best possible technical support to its current and prospective customers. If you would like personal assistance, please feel free to call us or send in an email to our Customer Service or Technical Support teams.

Customer support

Telephone:	+1 416 920 5884
Hours:	9am - 6pm EST (GMT -5:00), Monday - Friday
Email:	cs@investintech.com

Technical support

Telephone:	+1 416 920 2539
Hours:	9am - 6pm EST (GMT -5:00), Monday - Friday
Email:	techsupport@investintech.com

Fax and Mailing Address

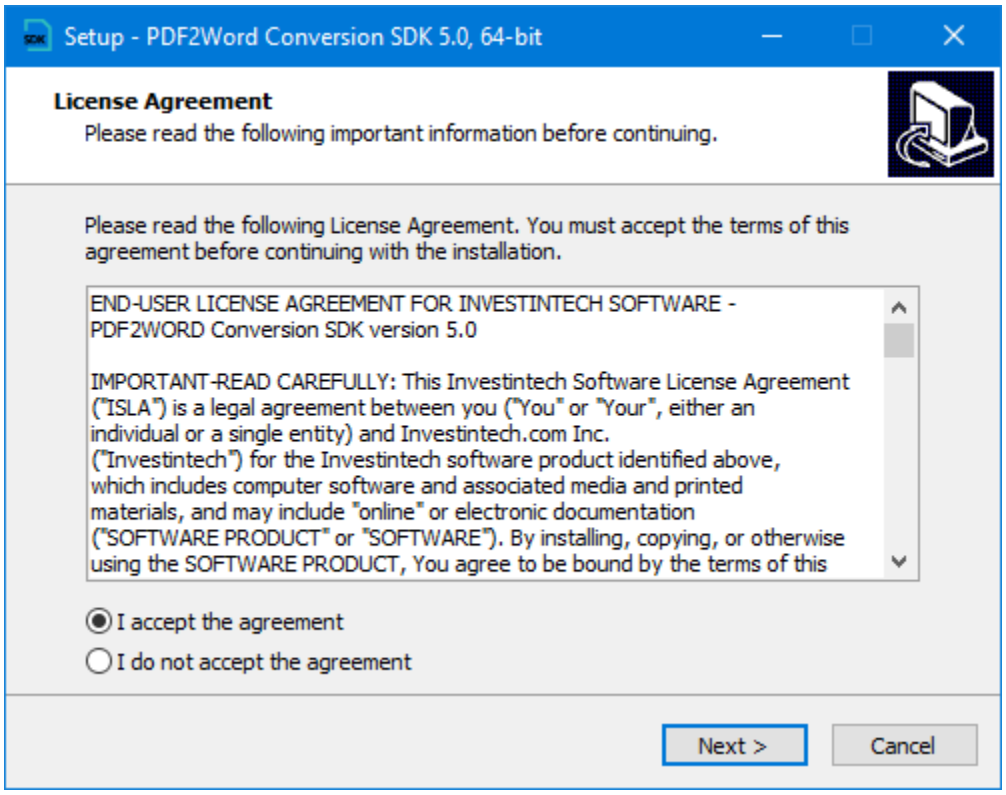
Fax:	+1 416 920 5848
Mail:	Investintech.com, Inc. 301 - 425 University Avenue Toronto, ON Canada M5G 1T6

2. Installing PDF to Word SDK tools

Thank you for choosing PDF2Word SDK tools from Investintech.com, Inc.
By following the steps below, you can quickly start using the PDF2Word SDK tool of your choice.

2.1. Windows Installer

After downloading the executable from the Investintech website, you can run the installation by starting the executable. This will run the Installation Wizard and display the Licence Agreement screen:



Please read the Licence Agreement carefully. By choosing "I accept the agreement" and clicking on the Next button, you are accepting the agreement terms for usage of PDF2Word SDK.

In the next two windows, you can choose to change the location of the installation files and Start Menu folder. You are free to leave the default options as displayed in the screenshots below:

After completing this step, you will be presented with the choice of selecting the individual components of the SDK tools you would like installed on your machine.

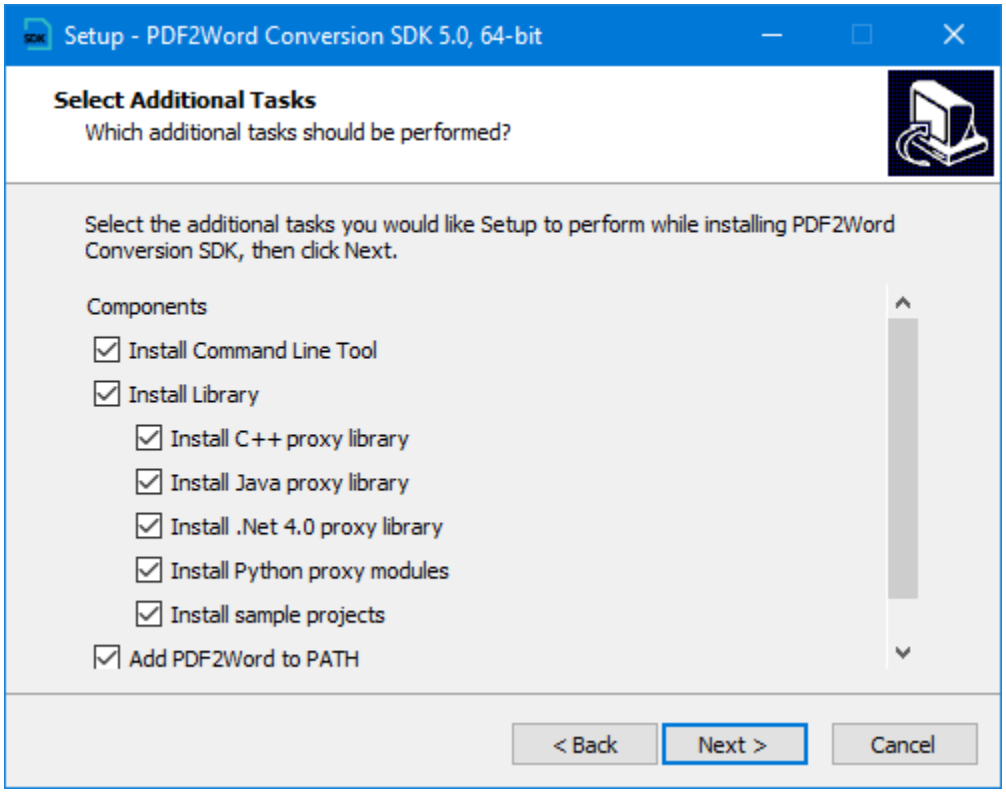
There are two major components of the SDK tools:

- ❏ Command Line Tool (CLT)
- ❏ PDF2Word Library

The Command Line tool usage is discussed in detail in Chapter 3 and the PDF2Word Library usage is discussed in Chapter 4.

By leaving the "Install Library" option checked you can also choose which of the individual proxy libraries to include with the installation. The inclusion of these libraries is strongly recommended as they significantly simplify the integration of the SDK into non native C/C++ software.

Our PDF2Word SDK tools also come with Sample Projects. These sample projects will be deployed to the "Documents" directory or more precisely, to the following location on a local machine: **`%USERPROFILE%\Documents\PDF2Word Samples`**



The last two steps involve a quick review of your chosen installation components and a short process of the installation itself.

After the installation finishes, simply close the installation dialog by clicking on the Finish button.

You are now ready to get started with the PDF2Word SDK!

2.2. Linux and macOS Installer

In order to install PDF2Word SDK on Linux distribution or macOS, you first need to bring up your Terminal application.

In order to retrieve self extracting archive you can use wget or curl command:

```
$ wget   <executable_url>
```

or

```
$ curl <executable_url> -o pdf2word-macos-amd64.run
```

Where <executable_url> is the url address of the SDK package to download.

After the .run file is downloaded you might need to adjust the permissions to allow for this file to be executed:

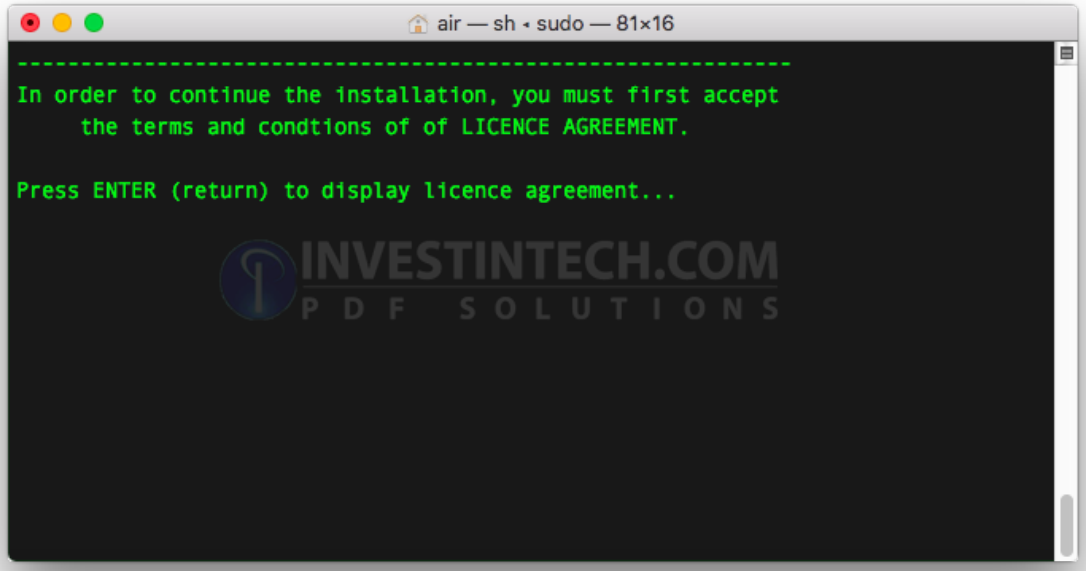
```
$ sudo chmod a+x pdf2word-macos-amd64.run
```

Next you can extract the self extracting archive through Terminal. To start the installer simply run it as executable. For example, for macOS enter the following command in the location of the downloaded archive (or provide absolute path to the file):

```
$ sudo ./pdf2word-macos-amd64.run
```

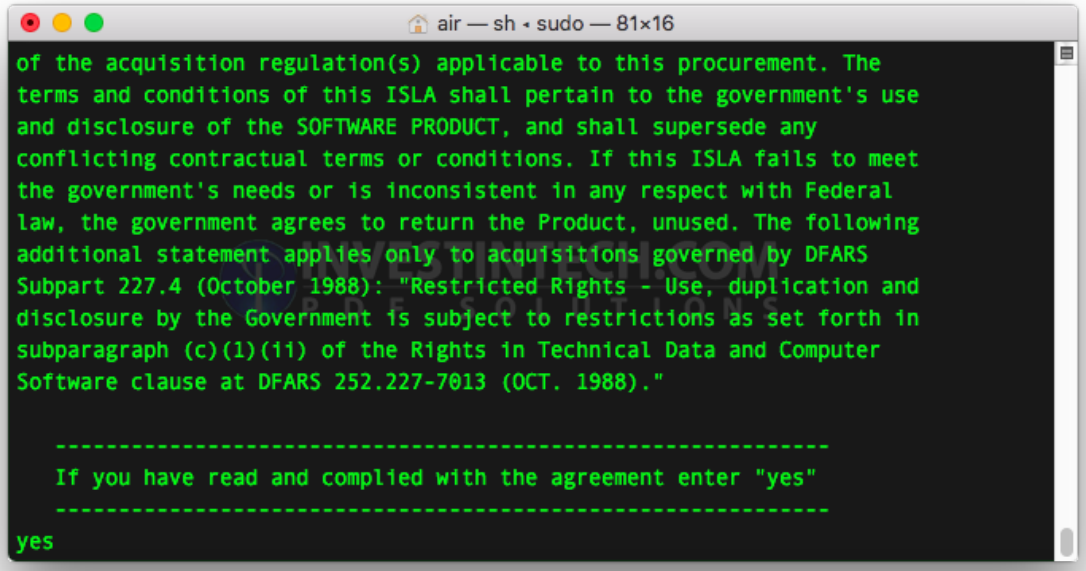
Same syntax is used for linux.

After a short extraction process, you will be prompted to preview and accept the ISLA agreement.



Pressing enter will display the agreement. Depending on the available application for displaying the textual files on the terminal, you can navigate through the agreement using **spacebar**, **arrow down** key and/or **PgDown**.

Once you have scrolled through the agreement you will be prompted to enter "yes" in order to confirm that you agree with the terms.



If you do not agree to the terms, you can exit the setup by entering quit, n or N.

Once you have agreed with the terms, setup will deploy the SDK Conversion file to the local file system at the location of **`/opt/`**. This directory is reported to the standard output after the successful extraction.

2.2.1. Location of binary

In order to dry run the pdf2word binary after the extraction you can use the following command:

```
/./opt/pdf2word/bin/pdf2word
```

If all the dependencies are resolved, this should print out copyright information, version number and trial status, followed by "usage" (help info). For more detailed information on using Command Line Tool please refer to Section 4 and adjust to appropriate OS specific syntax.

> ***Note:*** If there is a missing resource for your installation you might have to install them manually. Common issue on Linux distribution are the font packages, which can be easily be downloaded, for example with **`sudo apt-get install libtiff5`** .

3. Registration

If you decide to purchase our PDF2Word SDK tools, you will have to perform a few more steps in order to be able to use the SDK tools without restrictions. Once you have purchased a licence through our website www.investintech.com or through one of our sales representatives, you will be provided with either a personalized Licence.lic file or a PIN number password for initializing the Libraries or both .

3.1. Using Licence file

There are two types of Licence files: the ones that require a password and the ones that do not.

If you were not provided with the information whether your licence file needs a password you can open your Licence.lic with text editor and search for </SN> tag inside. If this tag is empty you do not need a password.

> ***Note:*** The licence file will contain your personalised information. Any changes done to the file will invalidate its usage, causing the tool to fall back into Trial Mode. Thus, it is recommended to keep a copy of this file safe in case of accidental file corruption.

To use the personalized License.lic file with either the Command Line Tool or Shared Libraries, it should be present in the resources directory, depending on the system:

- Under Windows copy file to the same directory as the PDF2Word.exe executable or PDF2Word shared library dll.
- Under Linux and macOS this file should be placed under ./res directory

3.2. Using Password to activate licence

For full, unhindered usage of Shared Libraries conversion methods, in addition to the Licence.lic file you need to enter the password provided when purchasing the software.
This password is provided by passing an argument to the special Initialization method which needs to be called first, before any of the conversion methods. Syntax is dependent on the type of Shared Library in question, it can be summarized to the following call:

```
Initialize (String pass);
```

4. Using the Command Line Tool

The Command line executable is a powerful, out-of-the-box tool that can be used for easy automation of conversion of PDF files into other file formats.

PDF2Word Command line tool (CLT) comes with three possible output formats for conversions:

- ❏ DOCX - Microsoft Word 2007 and later (This is the default option)
- ❏ RTF - Rich Text Format
- ❏ ODT - Open/Libre Office Writer 3.0 Document

More about file formats, or specifically how to change from the default one, will be explained in Section 3.4.3

4.1. Preparation

In order to run the PDF2Word Command Line Tool on Windows OS, you first need to open it from the Command Prompt, Windows Powershell or some other Command Line Interface. This guide will focus on using the Command Prompt.

Open the Windows Command prompt by using any of the following techniques:

- Start typing "*command ...*" string in the Start Search bar , and clicking on the Command Prompt Desktop App when it appears.
- Start "Run" dialog using **Windows** + **R** keyboard shortcut and entering "cmd" on the keyboard and pressing "Enter" to run the cmd.exe
- Using File Explorer to navigate to the SDK installation directory and double-clicking on "Cmd.cmd" file. The installation directory is the one specified during installation.

4.1.1. Path variable (Windows)

During the installation of PDF2Word Conversion SDK you are provided with the choice for the installer to automatically set System Environment variable PATH.

If you are using Shared Libraries it is strongly recommended to have a PATH variable setup, since this makes setting up the work environment much easier. It also allows you to avoid entering an explicit path location of the PDF2Word Console Application.

If you choose not to set up a path variable during the installation you can add the location of your Shared Library and executable as a Path Environment Variable to your System Properties. PATH environment variables on Windows are accessible from the Advanced tab in the System Properties window.

4.2. Quick Single File conversion

Once you have your favorite terminal application running, converting the first file with default properties comes down to running the *PDF2Word.exe* with an absolute file path as your first parameter.

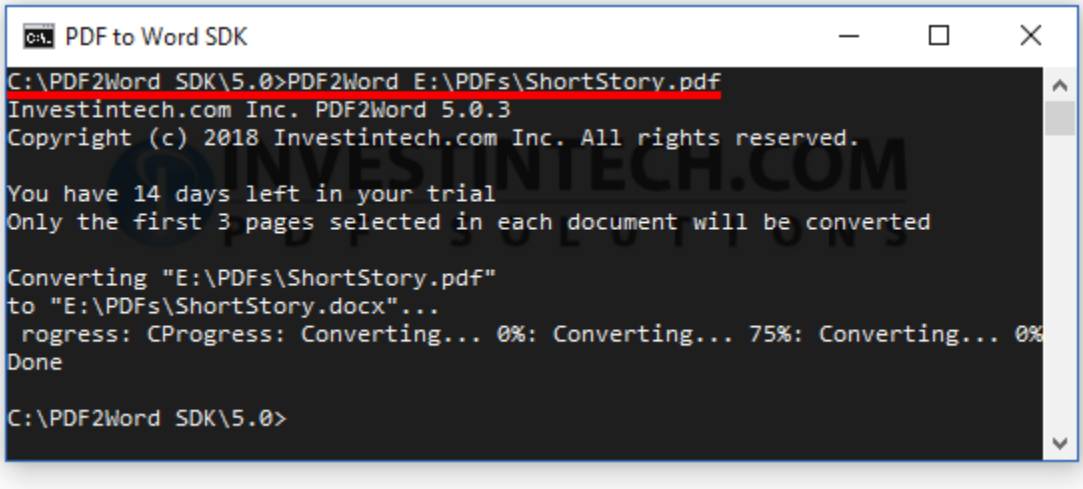
> ***Note:*** In order for the System to be able to find the correct executable make sure that Environment Variable is set up correctly (refer to the Section 4.1.1). Optionally, navigate your current location in the terminal application to the installation directory of PDF2Word SDK, or use absolute executable path.

Filenames with spaces should be enclosed with double quotation marks ("") as shown in the example that follows.

Example: To convert the file named "`ShortStory.pdf`" in the directory "`E:\PDFs\`" you can issue the following command:

```
>PDF2Word "E:\PDFs\ShortStory.pdf"
```

In the screenshot below, you can see the expected output when the installation directory path as well as the current command line directory is: `C:\PDF2Word SDK\5.0`



During the conversion, some basic information of the process of conversion will be shown. The output will also display the location and name of the input and output files. When no additional

command line arguments are provided for the output directory, the default output directory location is the same as the input directory, which in this example is "`E:\PDFs\`"

When the file conversion process is finished, "Done" will be displayed in the command line to mark the end of the conversion process. The Command Prompt will then fall back to its default state.

4.3. Quick Multiple File Conversion

The conversion of multiple files using PDF2Word SDK Command Line tools can be as easy as converting individual files.

The PDF2Word Console Application supports two types of wildcard characters that can be used for converting multiple files with a single command:

- An asterisk " * " character is used to match zero or more characters
- A question mark " **?** " character is used to match exactly one character

  Note: On Unix-like systems, the asterisk character is parsed before being passed as argument to the Terminal application. In order to avoid unpredictable behaviour, you need to either escape character * with backlash \ or enclose the argument in parentheses.

Example: Your goal is to convert all files starting with the string "Sales". For this purpose you could simply append an asterisk wildcard character to the end of a fixed string:

Sales*

Note that this would include all file types, regardless of the extension. If you would like to include only .pdf files to be converted, you could expand your string in the following way:

Sales*.pdf

Example usage of the question mark (?) wildcard character could include matching files containing exactly four characters:

????.pdf

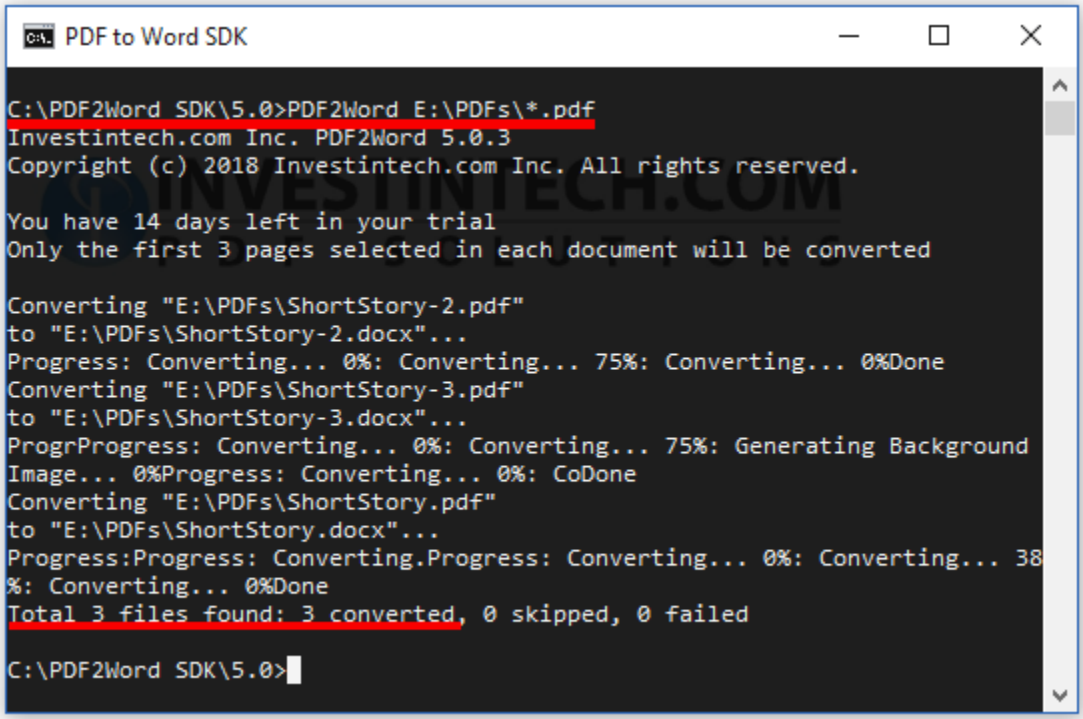
Finally, you could use the combination of both wildcards in order to match .pdf files containing three or more characters, by adapting the following syntax:

*???.pdf

Using one or more of the wildcard characters when passing on the first mandatory <inputFilePath> argument can be used to control the conversion of multiple files.

Example: To convert all files with the .pdf extension in the directory "`E:\PDFs`" you can simply issue the following command:

```
> PDF2Word "E:\PDFs\*.pdf"
```



The console output is giving you information about individual file conversions, as well as a summary of number of total converted files, skipped files and failed fails (if any).

The console output is giving you information about individual file conversions, as well as a summary of the total number of converted files, skipped files and failed files (if any).

Another applicable example could be the need to convert only the pdf files that start with a "ShortStory-" string, followed by exactly one other character.

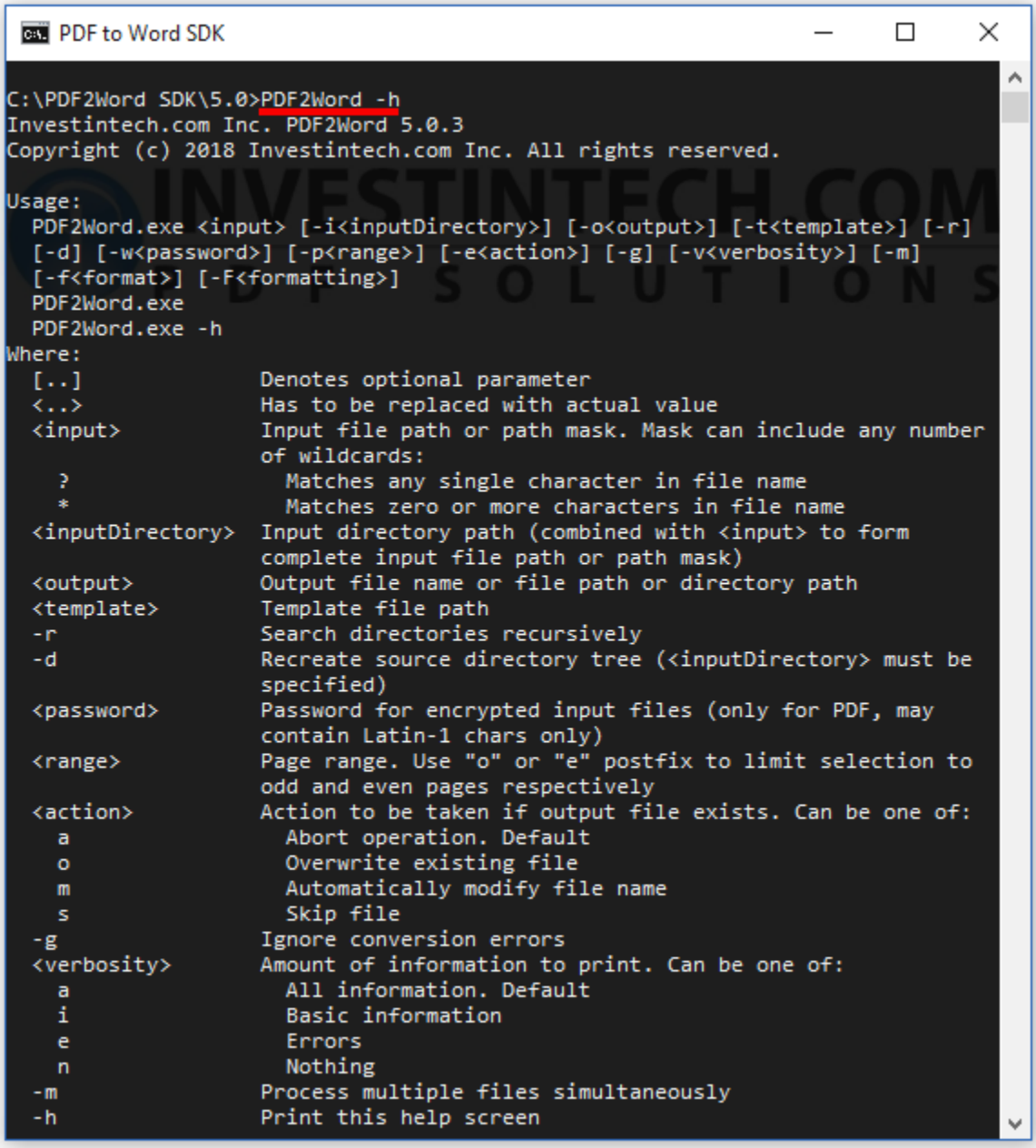
```
> PDF2Word "E:\PDFs\ShortStory-?.pdf"
```

In the following chapters you will get familiar with other methods of converting multiple files using additional Command Line Arguments with the combination of wildcard characters.

4.4. Command line arguments

PDF2Word provides several command line arguments that can help with the conversion automatization fitted to the specific need of the task at hand. To access the help menu directly from the Command Line interface simply run the PDF2Word Console Application without any arguments or with argument -h:

> PDF2Word



The following table contains the summary for the usage of the switches:

Switch	Parameter description	Usage
-i	<dirPath>	Specify the input directory
-o	<dirPath>	Specify the output directory
-t	<pcvtTemplate>	Specify the conversion template
-r	NONE	Recursive search of directories
-d	NONE	Recreate Source directory tree
-w	<password>	Specify the password(s) for encrypted PDF files
-p	<range>	Define page range
-e	<action>	Action to be taken if output file exists
-g	NONE	Ignore Conversion Errors
-v	<verbosity>	Amount of information to print.
-f	<format>	Specify conversion format
-m	NONE	Process multiple files simultaneously
-h	NONE	Display help screen
-F	<contentFormating>	Specify content formatting

The switch parameters that are not required are marked by NONE in the above table. All other parameters are mandatory and shortly described in the above table. The function of the specific switches will be discussed in more detail in the following chapters.

> ***Note:*** When passing a parameter to a switch it must be entered immediately after the switch, that is, without spaces. It is allowed, however, to pass a parameter enclosed in double quotation marks for more readable code.

4.4.1. Specifying input directory

The Command line tool allows you to easily convert multiple files from a specified directory. Switch **-i** is used to specify your source directory, after the mandatory <inputFilePath> argument.

When a directory is specified, the usage of wildcard characters is mandatory. This is required in order to match multiple files from the specified directory.

If you would like to convert all of the files in directory "`E:\PDFs`", you could use the following command:

```
>PDF2Word * -i"E:\PDFs"
```

The first argument passed is only one character. This is a simple "catch all" filter * which will match all files in the specified directory.

> ***Caution:*** When specifying a filter that is too broad, like using the catch-all asterisk sign alone, the conversion might stop when it reaches an unsupported file for conversion. In order to make sure that the conversion of the file is successful, you can do one of the following: specify the appropriate file extension or use the **-g** switch to force the engine to ignore conversion errors.

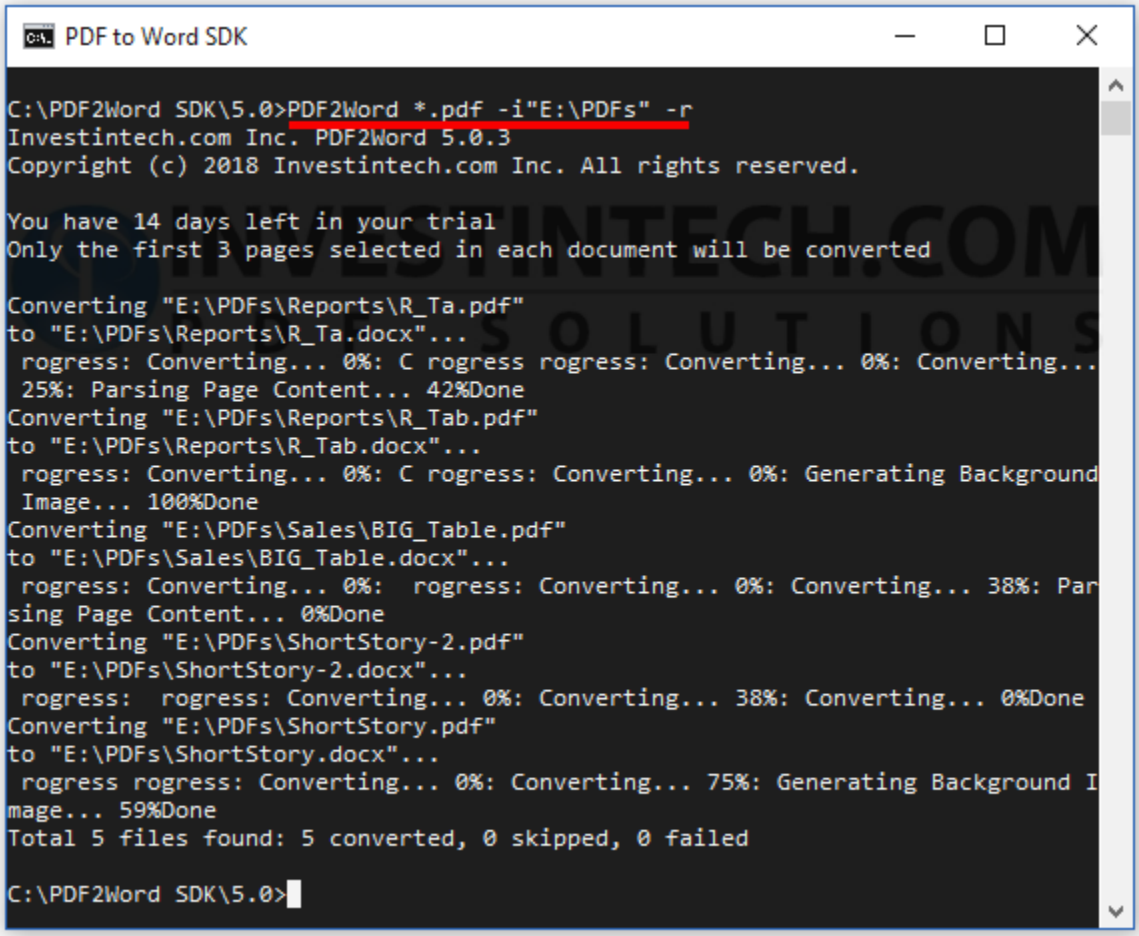
It is quite common that there are nested directories inside the specified input directory. In this case, if there are also files inside those nested directories that need to be included in the conversion output, you can use the **-r** switch to instruct the engine to perform a recursive search of files matching the pattern.

Example: If you have "`E:\PDFs`" as a directory which contains some other sub-directories, that in turn also contain files of interest, you can use the following command to easily traverse the file tree hierarchy:

```
>PDF2Word *.pdf -i"E:\PDFs" -r
```

The screenshot below shows the conversion result of the following tree hierarchy of the "`E:\PDFs`" directory that contains two directories named "`Sales`" and "`Reports`".

Two nested folders, "`\Sales`" and "`\Reports`", also contain PDF files, that is, files that are matching the specified mask: **"*.pdf"**.



The PDF2Word Command Line Tool displays the individual absolute paths for each file that is being converted.

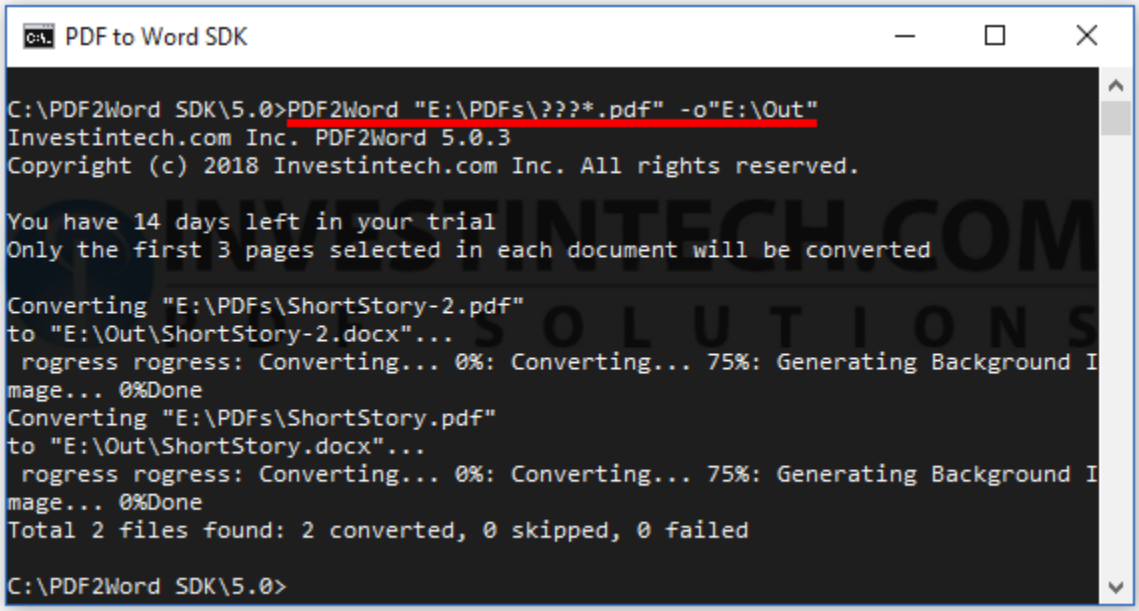
4.4.2. Specifying output directory

In addition to specifying the input folder, it is often convenient to specify the output directory to collect converted files in a different directory. By default, the converted files are placed in the same directory as the source files, which can quickly become inconvenient as the number of source files grows larger.

To save converted files in a location other than the source document directory, you can specify an absolute path of the output directory after the **-o** switch.

Example: In order to store converted files to `"E:\Out"` directory, simply declare the desired path after the **-o** switch, using similar syntax as in the following line:

```
>PDF2Word "E:\PDFs\???*.pdf" -o"E:\Out"
```



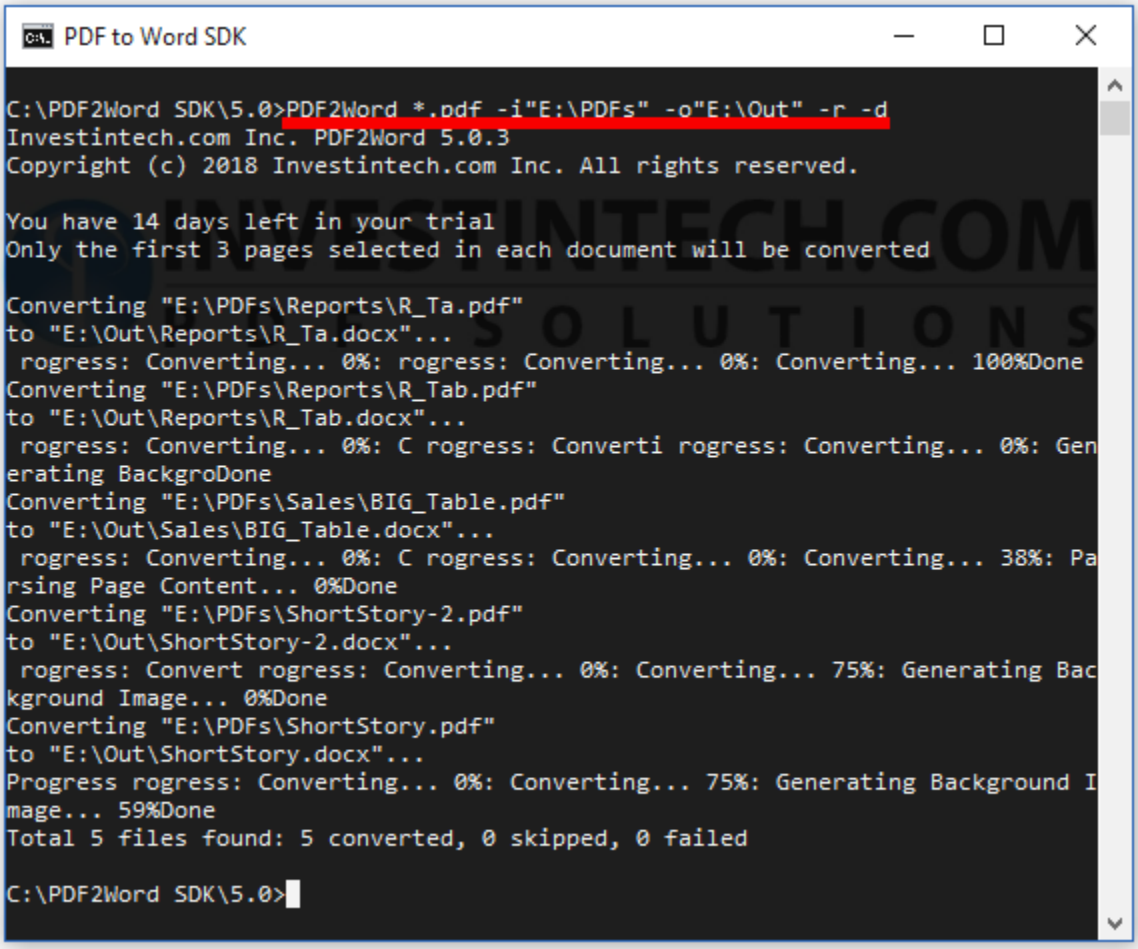
In the previous example the filter was specified for a file name using wildcards " **???*.pdf** " to match only files with the extension PDF and having at least 3 characters in the filename.

When using both <input> and <output> file paths together with the **-r** switch (Section 4.4.1) it is possible to recreate the directory tree in the output directory using the **-d** switch.

By following the simple directory tree from Section 4.4.1 where we have directory `"E:\PDF Files"` containing two sub-directories, `"\Sales"` and `"\Reports"`, we can see how the **-d** switch can be implemented.

Example: In the following example you can see how the **-d** switch is producing a conversion of all files from all three directories, while re-creating the directory tree in the output directory:

```
>PDF2Word *.pdf -i"E:\PDFs" -o"E:\Out" -r -d
```



Note: When using this **-d** switch to recreate a directory tree, only child-directories that contain files with names that match the filter specified in the first <inputFilePath> argument will be created. This is because the **-r** switch will ignore directories with no matching file mask.

Following the previous example, if directory `"E:\PDFs"` contained a folder named `"Images"` which contains only .png files, the `"Images"` folder would not be created in the `"E:\Out"` directory, since the provided pattern, *.pdf, only matches pdf files.

4.4.3. Output file format

In the previous examples all of the pdf files were converted into MS Word 2007 format with the extension .docx, which is currently the default format for the Command Line Tool.

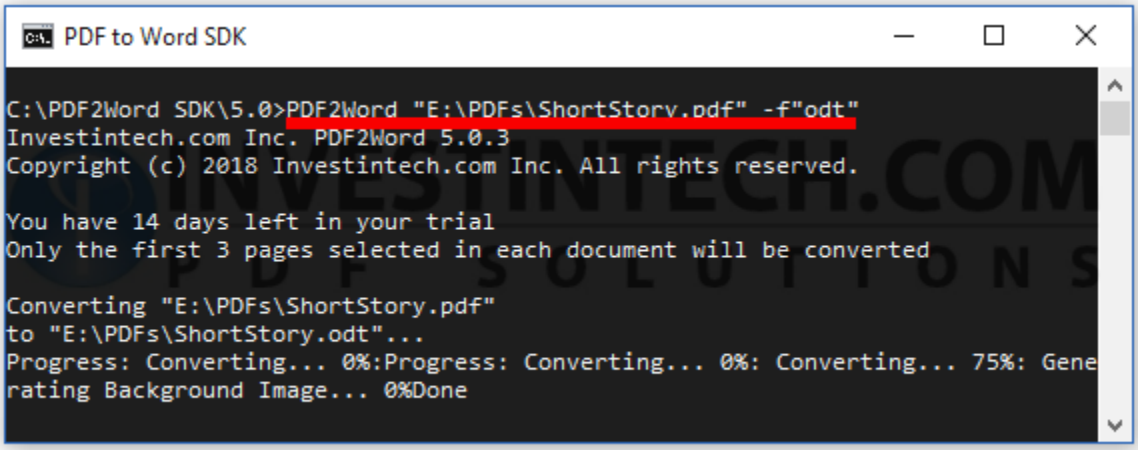
Using the **-f** switch, it is easy to change the output format to one of the other two available output file formats.

The following table below provides a list of the output formats that are supported:

-f Parameter	Format description
docx	DOCX - MS Word 2007 document (default)
rtf	RTF - Rich Text Format
odt	ODT - Open/Libre Office Writer 3.0

Example: To convert the "ShortStory.pdf" file in the "E:\PDFs" directory to the Open Document Writer format you can issue the following command:

```
>PDF2Word "E:\PDFs\ShortStory.pdf" -f"odt"
```



The double quotation marks used for the argument of the **-f** switch are not mandatory. They are only provided for the sake of brevity. So, one could have easily used:

```
>PDF2Word "E:\PDFs\ShortStory.pdf" -fodt
```

to produce the same conversion results as the previous command.

Similarly, it is possible to convert the "ShortStory.pdf" file to the Rich Text document format. The full command for this conversion is:

```
>PDF2Word "E:\PDFs\ShortStory.pdf" -frtf
```

Whichever output file format is best suited for your needs, PDF2Word SDK will make quality conversion of your PDF files to specified format.

4.4.4. Page Formatting

In addition to changing the output file format, you can also fine-tune the formatting of your converted content. For this purpose, when converting PDF documents to DOCX or RTF file formats, you can use an **-F** flag (capital letter F) to tweak the way in which the converted content is laid out in your output document.

The following table provides an overview of the page formatting options available:

-F Parameter	Format description	Available for file formats
s	Standard (Default)	DOCX, ODT, RTF
f	Frames	DOCX, RTF
t	Text Only (simple)	RTF

Standard - This format is suitable in most cases, which is why it is the default format. This ensures that your output document will closely resemble the standard Microsoft Word Document as much as possible for easy editing.

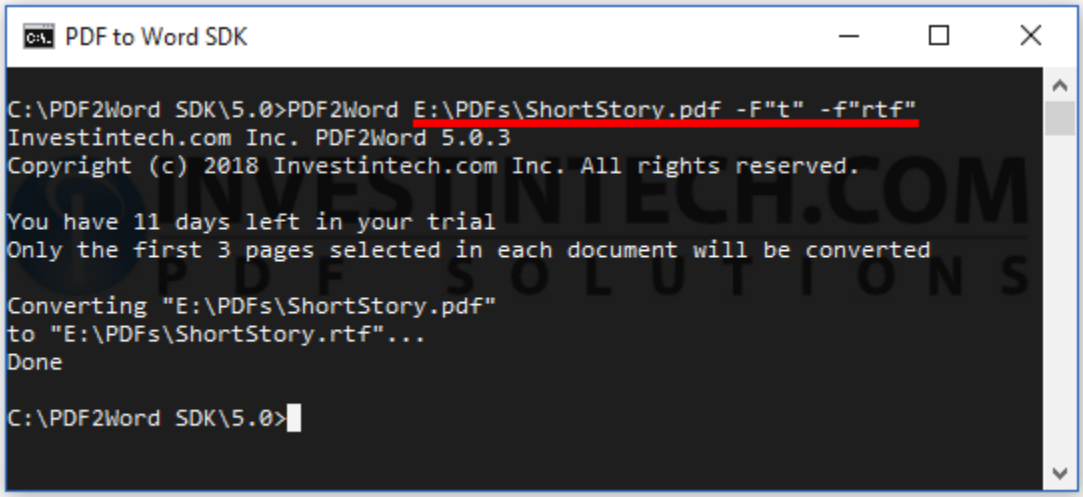
Frames - When using frames, the content in the output document will be placed in individual text boxes. While the results almost always look exactly like the output results produced by the Standard (Default) option, editing the page content is more compartmentalized, which can be convenient in some cases.

Text Only (simple) - This is the simplest output format for RTF files that doesn't include pictures, but keeps other basic formatting features intact.

Example: To convert only text from the file named "ShortStory.pdf" to the RTF file format, you can use the following command:

```
>PDF2Word E:\PDFs\ShortStory.pdf -F"t" -f"rtf"
```

As shown in the screenshot below:



4.4.5. Page ranges

When dealing with large PDF files there is often no need to convert all of the pages in the document. Using Page Range switch, you can define which part of the document to convert.

With the Page Range switch -p, you can define a single page or a subset of pages to be converted. When defining a subset of pages, you can specify a start page number (<startPageNº>), end page number (<endPageNº>) or both. When specifying only the starting page, followed by a hyphen (-), the assumed end page is the end of the document. Similarly, when specifying only the last page number, the assumed starting page is the first page of the document.

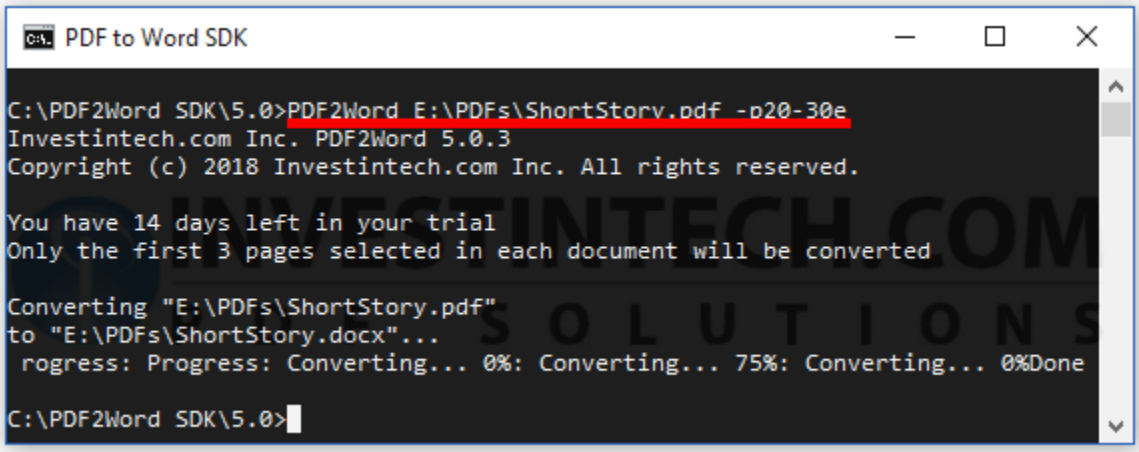
Additionally, you can decide to extract only odd or even pages of the document by using suffixes, **o** or **e** respectively. The table below provides you with an overview of the possible syntax for each case and what it does:

Syntax	What does it do?
`-p<SinglePageN°>`	Convert one page of the document.
`-p<startPageN°>-<endPageN°>`	Convert all pages starting with `<startPageN°>` and ending with `<endPageN°>`
`-p<startPageN°>-<endPageN°>e`	Convert even pages starting with `<startPageN°>` and ending with `<endPageN°>`
`-p<startPageN°>-<endPageN°>o`	Convert odd pages starting with `<starPageN°>` and ending with `<endPageN°>`

> ***Note:*** Odd and even pages are "absolute", meaning that they are dependent on the real document page numbering, and not on `<starPageN°>`.

Example: Let's say you have a large PDF file, but you only require even pages from page 20 to page 30. You can use the following command to extract specific pages:

```
>PDF2Word E:\PDFs\ShortStory.pdf -p20-30e
```



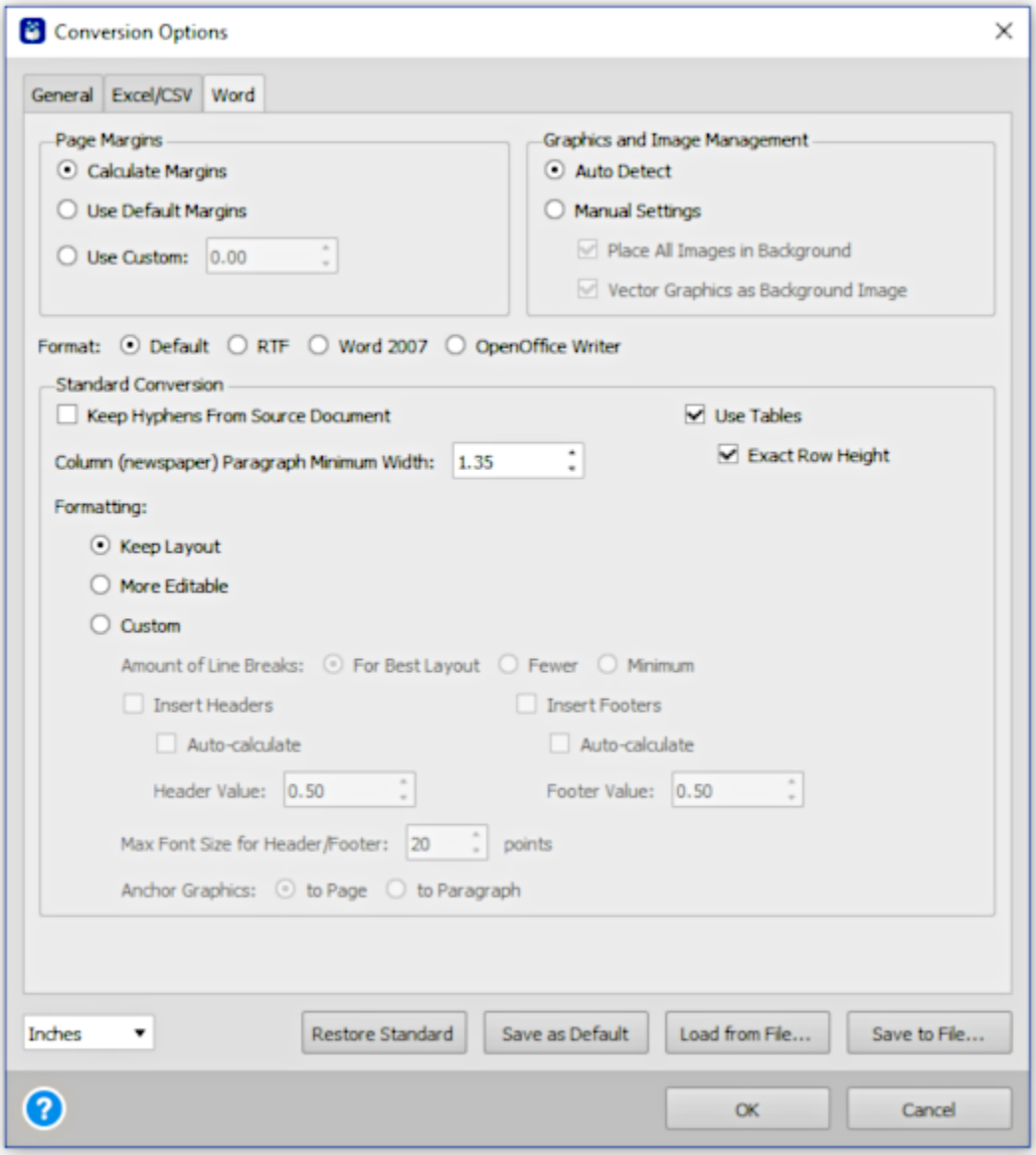
4.4.6. Using options file

PDF2Word automatic conversion is fine-tuned to provide good conversion results on large set of different kind of PDF documents. However there are some additional options that can be provided when converting to MS Word document format, such as fixed page margins, how wide newspaper columns should be, or whether or not to use table object in output .docs document for tabular data from source PDF.

These additional settings are passed onto the engine using Options.pcvt file which is can easily be created from Able2Extract Desktop application. You can download and install Able2Extract Desktop Application from our official website www.investintech.com.

Once Able2Extract application is running you can select desired conversion options and export them to a file. To access this menu, open Able2Extract Desktop application, go to View -> Conversion Options from Menu Bar and click on Word tab.

You will get the following screen:



You can modify any of the options on this dialog, than save it as Options.pcvt file. In order to use the Options file when converting files using CLT, you need to provide a relative or absolute path of the file to the **`-t`** switch.

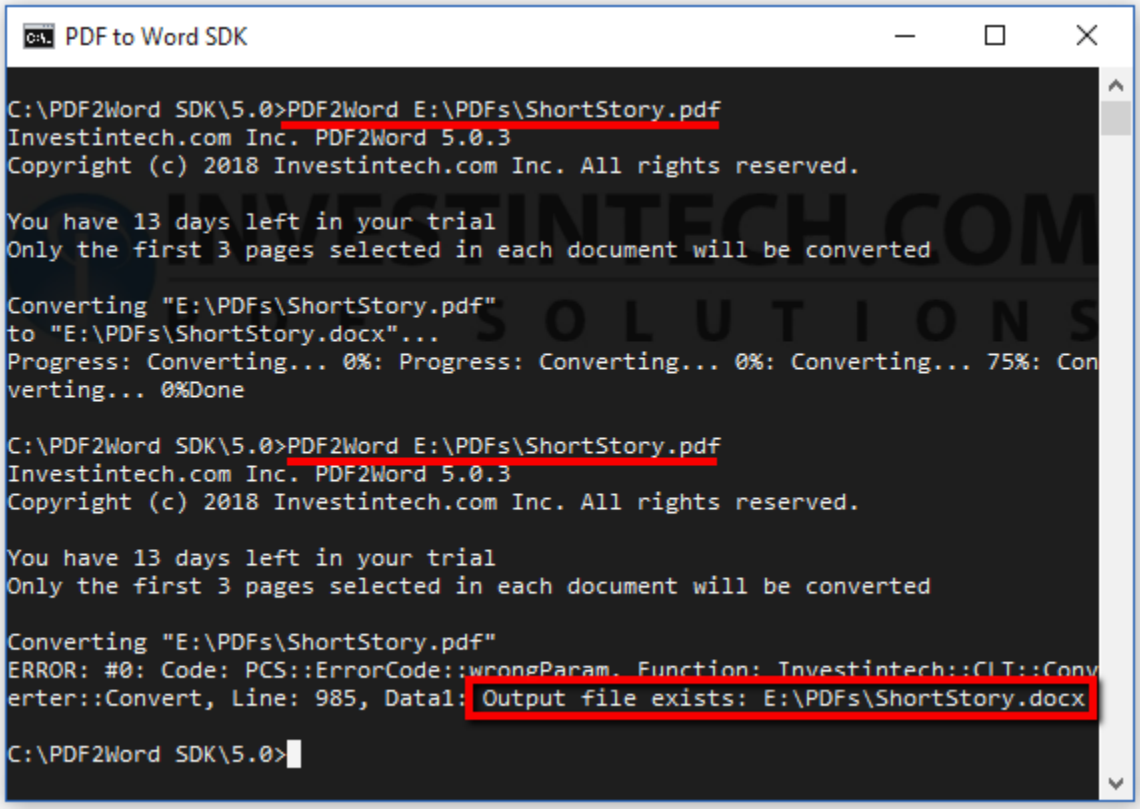
To learn more on specific of each of the options available for option files, please refer to online documentation on Investintech website www.investintech.com.

4.4.7. File name collision options

When converting files with generic names, or when repeating the conversion of the same file, it is a common occurrence that the output directory already contains a file with exactly the same name.

Example: When converting the same file two times, let it be a file with absolute path `E:\PDFs\ShortStory.pdf`, you will see the following error in the console:

```
Output file exists: E:\PDFs\ShortStory.docx
```



For safety reasons, conversion of a file will fail when file name collision occurs. Using the <action> switch **-e** you can specify a different action when file collision occurs. The following table gives you a summary of the possible options:

-e Parameter	What happens in case of collision ?	Print to terminal when collide?
a	Operation will be aborted (default)	Yes
o	Overwrite existing file	Yes
m	Modify the file name to avoid collision	No
s	Skip the conversion of this file	Yes

In the case of a successful file overwrite, or file skipping, the Command Line Tool will print to the console that these actions occurred, unless the verbosity level is changed explicitly (Section 4.4.8).

If a collision occurs and <action> (switch **-e**) is set to modify (parameter **m**), no special output will be displayed. However, since the name of the output file is displayed for every conversion with default verbosity level, the output file name will differ from the input file name, which points out that this specific event has occurred.

> ***Caution:*** At first glance it might appear that the default option (abort) and using the **-e**"**s**" action to skip the file when collision occurs have the same effect, with only the output to console being different. When converting a single file this will, indeed, be true. However, this is not the case when converting multiple files. If any of the files has a name collision, the rest of the files will not be converted. The exception to this rule would be when a collision occurs for the last file in the queue, in which case only that last file will not be converted.

Example: Below you can see a screenshot of the output when file collision occurs while running all three parameters to the <action> **-e** switch in sequence one by one:

```
>PDF2Word E:\PDFs\ShortStory.pdf -e"o"

>PDF2Word E:\PDFs\ShortStory.pdf -e"m"

>PDF2Word E:\PDFs\ShortStory.pdf -e"s"
```

Of course, in the third case, no conversion is actually performed. The engine will simply inform you that the output file name already exists.

4.4.8. Verbosity level of Console output

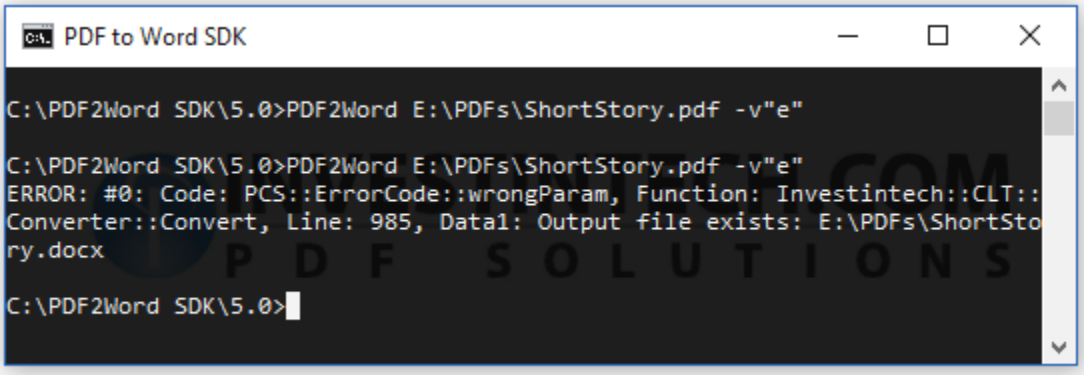
Using the Command Line Tool is often done in a fully automated manner. When this is the case, it is often unnecessary or even counterproductive to have all of the conversion outputs to be printed to the command line interface.

You can control the amount of output using the **-v** switch followed by one of the options. This is described in the table below ordered by the amount of output that will be displayed:

-v Switch parameter	What shall be printed out?
a	All of the information (default)
i	Only basic information
e	Only errors, if they occur
n	Nothing

Example: We can reproduce an example of the file collision from Section 4.4.7, converting the same file two times, but this time with the verbosity level reduced only to errors. The output of repeated conversion of the file `"ShortStory.pdf"` is shown below:

```
>PDF2Word E:\PDFs\ShortStory.pdf -v"e"
```



You can see from the screenshot that the first run of the command didn't produce any output at all, since no error occurred, while for the second conversion we have an error, and it is the only output displayed.

Important: Verbosity mode can have a very big impact on the performance of the Command Line Tool. Conversion time can be doubled when complete verbosity level is set to all, which is the default. When the tool is invoked by another app or script it is strongly recommended to turn off the verbosity level completely. Otherwise, you should generally use the scarcest verbosity level you require in order to get the fastest conversions.

4.4.9. Converting password protected files

PDF files are sometimes encrypted, and thus cannot be opened without providing a password. In order to be able to convert these files you can provide the password as a parameter to the **-w** switch.

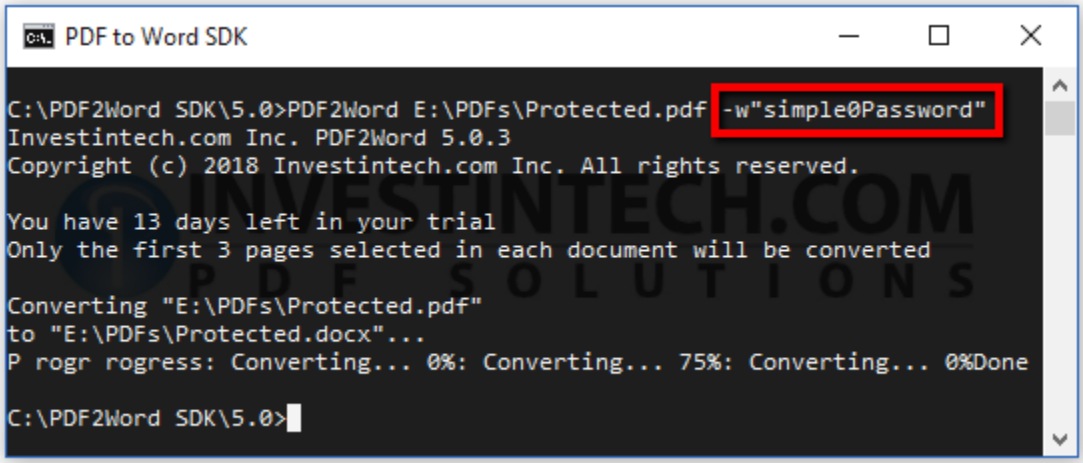
If you try to convert an encrypted file, you will get the following error:

```
ERROR: #0: Code: PDL::ERR_PDF_WRONG_PASSWORD
```

Since the conversion engine only requires reading of the document in order to convert it to another file format, you can supply either an "Owner" or "User" password to successfully convert the file.

Example: Here is a simple example of how to convert an encrypted file with an absolute file path `"E:\PDfs\Protected.pdf"`, and password `"simpleOPassword"`:

```
>PDF2Word E:\PDFs\Protected.pdf -w"simpleOPassword"
```



4.4.10. Ignoring Errors

Having an error reporting feature is an important part of every application. There are some cases when the conversion process needs to proceed despite the errors, especially when large scale file conversions are in question.

The correct option to use in this case is the **-g** switch that instructs the PDF2Word Command Line Tool to ignore conversion errors and continue the execution of the program.

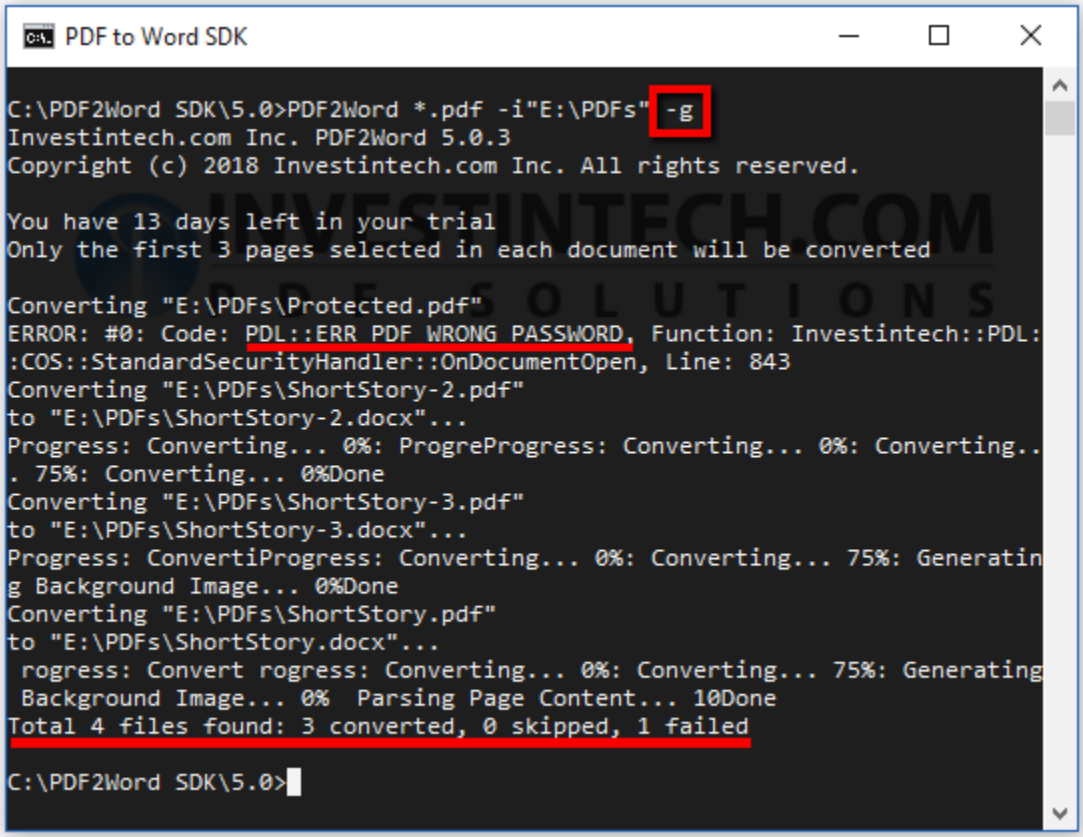
When converting multiple files using wildcard characters, it is possible that one of the files cannot be converted. When this happens, the process of conversion will stop and all the other files will not be converted.

Example: You have a directory named `"E:\PDFs\"` with several .pdf files, one of which is password protected. You can order the conversion of all .pdf files in the directory with the following command:

```
>PDF2Word  *.pdf -i"E:\PDFs"
```

If conversion fails when it reaches the password protected file, then all the other files will not be converted. To avoid this from happening you can add the **-g** switch to the command:

```
>PDF2Word  *.pdf -i"E:\PDFs" -g
```



From the output in the console, you can see that Error has occurred when a password protected file was reached. Nevertheless, the conversion of all other files was completed successfully.

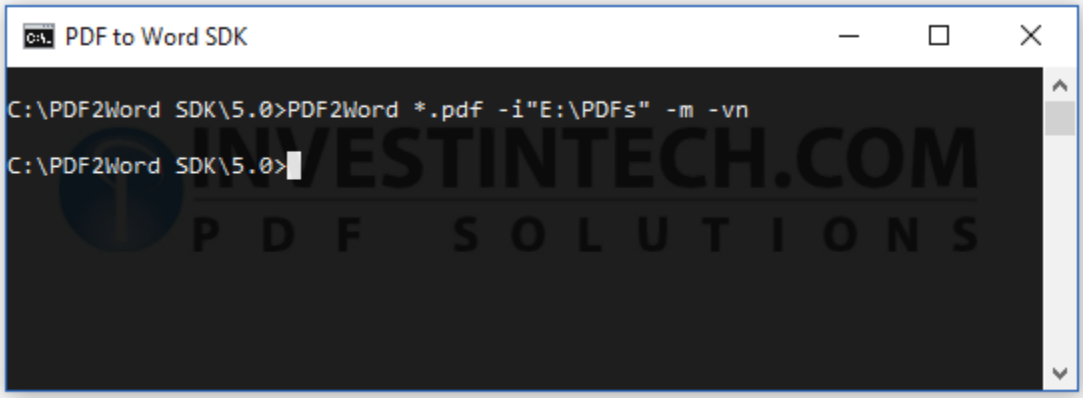
4.4.11. Parallel Conversion

One more option that can help you in the process of converting a large number of files is using the **-m** switch which forces the engine to convert multiple files simultaneously.

Since the immediate output of a big number of files can be overwhelming, this command is intended to be used together with the verbosity level (section 3.4.7) set to "none" using **-vn** (or **-v**"**n**").

To simultaneously convert all of the PDF files in a directory named `"E:\PDFs"`, use the following command:

```
PDF2Word E:\PDFs\*.pdf -m -vn
```



Of course, due to the verbosity level being set to "none", there will be no output on the command line interface.

5. Using the Shared Library

The PDF2Word SDK comes with a complete set of files which allow for quick integration into your development environment. PDF2Word.dll is a collection of methods compiled, linked and stored in a Dynamic Link Library. You can use the Dynamic Link Library PDF2Word.dll directly, or through one of the proxy libraries for COM and .NET for non C/C++ projects.

5.1. Preparation

After installing the PDF2Word SDK tool on your local machine you should have access to Sample Files in addition to libraries and executive binaries. These files can be accessed in your local "Documents" directory, the install directory relative to the User folder on your local machine, or by using the out-of the box environment variable:

```
%USERPROFILE%\Documents\PDF2Word Samples
```

The stated folder above contains subfolders with different Visual Studio sample projects.

> ***Note:*** While instructions for using sample projects can be implemented using the default location in which they are stored, it is recommended to make a copy of this sample project to some other location so you can easily rollback to a default state.

5.1.1. Licence Registration

In order to use a fully licenced version of PDF2Word.[dll | so | dylib] in your application, you should receive one or two components:

1. Personalised Licence.lic file
1. (optional)Password corresponding to the Licence file

To use the licenced application, the `Licence.lic` file needs to be present in the same directory as your executables. If you have a licence file that requires password you must pass an argument to the initialization function :

```
PDF2Word.Initialize( String pass)
```

If you do not have a Licence.lic file, you do not have to provide a password String, however, this will give you limited trial access to our SDK tools. In order to use the unlicensed SDKs, you can pass an empty string to the initialization function.

5.2. C++ sample project

This section will explain how to connect the C++ sample project with the PDF2Word.dll library. On Windows sample project is placed by default in the following directory:

```
%USERPROFILE%\Documents\PDF2Word Samples\C++
```

For Linux and macOS Sample projects are in the same directory as installation directory:

```
/opt/pdf2word/samples
```

In order to ensure rollback it is advisable to make a copy of sample files before starting the integration.

Sample projects can be opened by double-clicking on `Sample.sln` or by opening the Visual Studio by and choosing `File -> Open -> Open/Project Solution...` and then navigating to the location of the sample project.

5.2.1. Resolving Dependencies

If dependencies are not resolved immediately additional setting is required in order to run the Sample project. For the Sample file to function it needs to know a location to `<PDF2Word.hpp>` and shared library `PDF2Word<.dll|.so|.dylib>`.

In order to ensure that Sample projects can access required resources, you might need to add them as "Additional include directories".

When using Visual Studio you can achieve this by right-clicking on the Solution project in the Solution Explorer (right hand side by default). From the drop down menu choose "Properties."

On the left side choose `C/C++ -> General.` To edit the first item click on down arrow in row Additional Include Directories and choose `<Edit>`

In the new window make sure that at least two directories are present. One is the location of the PDF2Word.dll and the other is the location of the header file `<PDF2Word.hpp>`. Both files are deployed during the installation.

Example: If your installation directory during the setup was `C:\PDF2Word SDK\5.0\` , then following two entries should be present in the **Additional Include Directory** section:

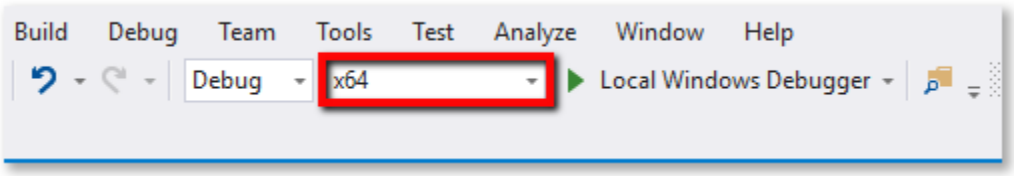
```
C:\PDF2Word SDK\5.0\

C:\PDF2Word SDK\5.0\Sources\C++
```

After build dependencies are resolved, linker might need a path to the directory containing the `PDF2Word.lib` file. In order to provide an explicit path to the linker you can bring up Properties of the Sample project and goto `Linker->General` and under **Additional Library Directories** make sure to add the root installation directory of the PDF2Word SDK.

Example: If your installation directory during the setup was `C:\PDF2Word SDK\5.0\` , then following entry should be present in the **Additional Library Directories** section:

```
C:\PDF2Word SDK\5.0\
```

When dependencies are resolved you can use the sample application.



When compiling the Sample file make sure to use the configuration that matches the target platform of the PDF2Word SDK tools.

5.2.2. Running Sample files (Visual Studio)

In order to run a Sample application out of the box at least two arguments containing a path to the PDF file and path to the converted output file.

You can provide that file manually to the compiled executable through console application or through Visual Studio debugger. Optionally, you can also hard-code the path directly into the sample file.

1. Directly run the `...\Debug\Sample.exe` executable from Command Line, which Visual Studio built for you, and pass the required parameter.

2. Open the Sample Project Property page by right clicking on Sample project from the Solution Explorer window and choosing Properties from the context menu. (You must select Project properties, not Solution properties).
From the Sample Project Property dialog, on the left hand side, choose "Debugging" and fill in the path for the Command Arguments field on the right. The first Argument is the path to the Input File that should be loaded.

Once you have provided a valid file path, you can start to build and run the Sample application. Sample application will open the file, output some of the meta information of the PDF file to the console, edit the file in several ways, as well as render the first page of the document. Rendered file is saved in jpeg format in the same directory as the source PDF file.

5.2.3. Running sample files (GCC)

Sample files for Linux and macOS distribution are located in the **`/opt/pdf2word/samples/c++/`** directory.

In order to compile a Sample file with gcc you only need to specify directories of shared libraries and main header file. When current directory is the location of sample file you can use the following command:

```
gcc Sample.cpp -I"../../src/c++/" -I"../../include"
```

After the successful compilation you can run the executable by providing at least two arguments, consisting of the absolute path to the input PDF file and path to the converted output file.

> ***Note:*** The default output format for the conversion is Microsoft Office 2007 file. In order for the output file to be properly interpreted by the Office application, it is strongly recommended for the output file extension to be .docx. You also have the ability to change (or add) the extension after the conversion is complete.

Once you have successfully converted the file using the Sample application, you will see the confirmation in the Command Line window.

If no error occurred, the process will terminate automatically with an exit code 0. The default output format of the output file is Microsoft Office 2007 file, regardless of file extension given as an argument. Other types of output formats and formattings can be used by passing on different **`enum class PDF2Word_::Format`** and **`PDF2Word_::Formatting`** values to the conversion function.

5.3. Net C# sample project

This section is intended to simplify connecting the PDF2Word.NET.dll proxy library for Visual C# Sample project. First things first, you need to locate the sample project. This sample project is placed by default in the Documents directory, expressed through an environment variable in the location of:

"%USERPROFILE%\Documents\PDF2Word Samples\Net.C#"

It is strongly recommended to make a copy of Sample files on which you intend to work on, as this will make it easier to rollback changes if the need arises.

5.3.1. Resolving Dependencies

The first step in configuring sample files to release the power of PDF2Word.dll is running the "Sample.sln" file located in the ".\Net.C#" directory. This can be accomplished either by using Open Project/Solution from the Visual Studio menu, or by simply double clicking on Sample.sln file.

When the Solution is opened, no project files will be loaded at start, which is normal. However, by simply opening the Sample.sln solution, you'll see that Visual Studio has prepared additional directories required for successful running of the sample application, specifically "bin" and "obj" directories, placed in the same directory as the Sample.sln file.

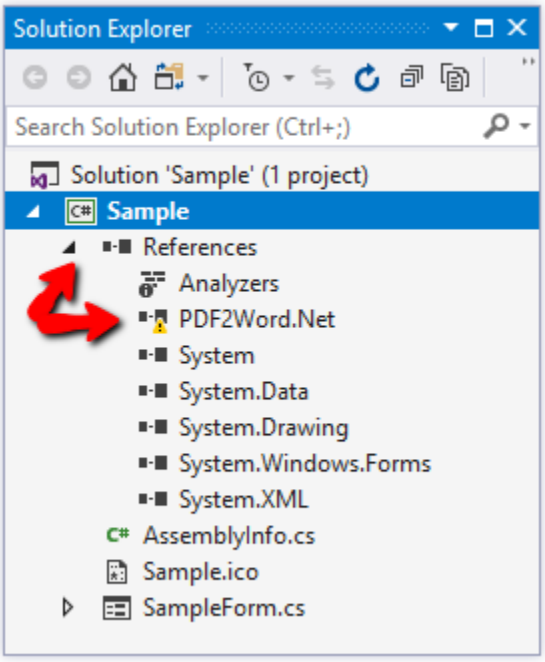
The directories that are of interest here are the sub-directories of the "bin" directory, which will store executables after the first build of the project. The name of the directory will depend on the Build Configuration used to build the application. Since the default configuration is "Debug" we will refer to this directory as the target one.

Next, using Windows Explorer, navigate to the installation directory of PDF2Word SDK, select all files and folders in the installation directory, and copy them in the ./bin/Debug/ directory of your sample project.

Once the files have been copied, you need to check if the proxy library PDF2Word.Net.dll dependencies have been resolved. Look for the Solution Explorer Window in your Visual Studio 2007. If Solution Explorer is not present, you can open it from the main menu: View -> Solution Explorer.

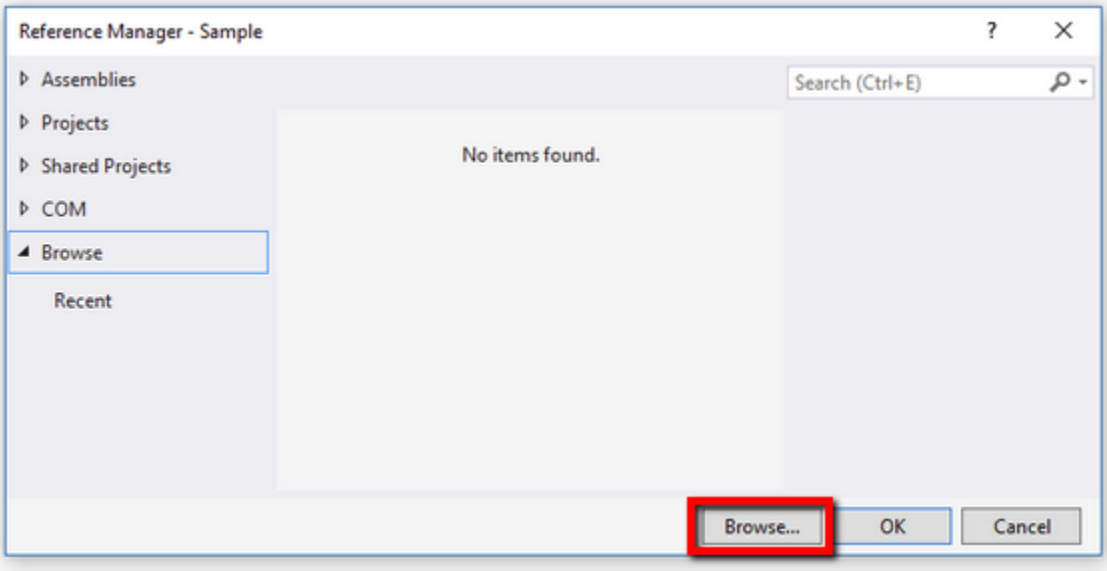
Inside Solution Explorer Windows, click the arrow-triangle left of "References" to see current project references.

Solution Explorer should look similar to this:



If marked by a warning exclamation mark, PDF2Word.Net dll is not properly linked. This situation is shown in the screenshot above.
To fix this, right click on "References" to bring up context menu, and choose "Add Reference"

You should get the following window:



Note: It is quite common for the list of Recent files to be populated with other files if you worked with Visual Studio before. To avoid unnecessary clutter this list has been cleared, as it is shown in the screenshot.

On this screen click on the Browse… button and navigate to the location of your PDF2Word SDK tools. This is usually the installation directory chosen during the installation. Once you have navigated to the location of PDF2Word SDK tools, choose and add PDF2Word.Net.dll. After that, simply confirm the selection by clicking on the OK button.

5.3.2. Analyzing the SampleForm.cs

Once the References are resolved, you can open the `SampleForm.cs` from the solution explorer.

Because the SampleForm class is a subclass of `System.Windows.Forms.Form`, it will open by default in *design mode*. In order to access the code, you can either double click on design window, or simply press the F7 keyboard button, while `SampleForm.cs` is selected in Solution explorer.

With SampleForm.cs code visible, scroll down to main function. It should have the following structure:

```
static void Main()
        {
              PDF2Word.Initialize("XXXXXXX");
              Application.Run(new SampleForm());
              PDF2Word.UnInitialize();
        }
```

Argument of the method **`public static void Initialize(string pass)`** needs to be changed in order to use PDF2Wordas a licenced product. This method accepts a String value that should be your personal password which is one of the two parts required to have a licenced SDK. For more details refer to Chapter 3.

Here, the password has been replaced with "XXXXXX". To successfully run the sample application in non - trial mode, you will need to pass in the password provided after purchasing the licence.

Next, we need to concentrate on the function **`okButton_Click()`** which is triggered when the user clicks on the OK button on the Form. This part of the Sample application is controlling the actual call to conversion function.

The conversion format is chosen based on user choice from the drop down menu (formatComboBox) of the form. Refer to the following code snippet in the SampleForm.cs file

```
switch (formatComboBox.SelectedIndex)
      {
```

```
            case 0: format = PDF2Word.Format.RTF;
                    break;
            case 1: format = PDF2Word.Format.MSWord2007;
                    break;
            case 3: format = PDF2Word.Format.OOWriter;
                    break;
    }
```

There are three possible output file formats. These are outlined in the following table:

Enum Value	Compatible with	Expected extension
`Format.RTF`	Rich text document format	rtf
`Format.MSWord2007`	MS Word format	docx
`Format.OOWriter`	Open Office Document writer	odt

> ***Note:*** The current Sample solution doesn't automatically add an extension to the file names. It is up to the developer to set appropriate file extensions if needed.

Besides the output file format, you can also control page formatting when converting to certain file formats. This part is included in the following code snippet:

```
switch (formattingComboBox.SelectedIndex)
            {
            case 0: formatting = PDF2Word.Formatting.Simple;
                      break;
            case 1: formatting = PDF2Word.Formatting.Standard;
                      break;
            case 2: formatting = PDF2Word.Formatting.Frames;
                      break;
            }
```

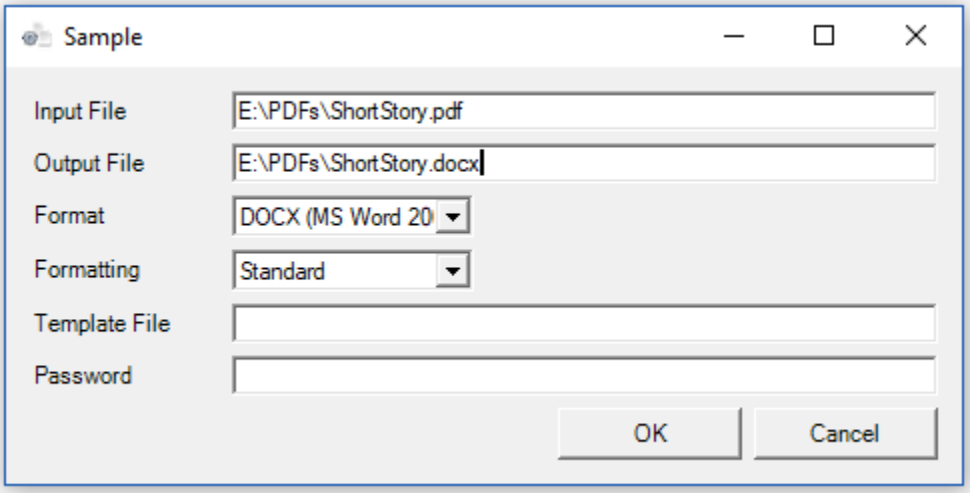
The chosen formatting will have an effect on how data in the output file will be displayed.
The Standar formating resembles most common Word document file. When using Frames Data will be compartmentalized in Word objects "frames". The default format in Sample dialog is Standard , as this is the option suited in most cases.

Enum Value	Compatible with format	Value

`Formatting.Simple`	RTF	1
`Formatting.Standard`	RTF, DOCX, ODT	2
`Formatting.Frames`	RTF, DOCX	3

5.3.3. Running the Sample Application

After you've successfully built the application and gave it a good test run, you should see the following window:



The last step needed before the PDF2Word engine can be seen in action is to supply at least two fields in the running form: Input File and Output file.

After the file paths have been provided, simply click on OK and after some time, depending on the size of the file, you'll have your first converted file using PDFtoWord.dll

> **Note:** If you're running a trial version of the SDK, a maximum of three pages of the input .pdf file will be converted, and a notice will be given about trial limitations inside the converted file.

Optionally you can choose different output formats for converted files, or use Template (Options) Files made using Able2Extract Desktop application. You can read more about Options Files and how to create them in Section 4.4.6.

The password field is mandatory only if the Input File is password protected. Currently, only ASCII / ISO 8859-1 (Latin-1) characters are supported for passwords.

5.4. Python Module

This section explains how to set up a Python proxy module to perform conversions using Python programming language. The Python interface is accessing the API of native Shared Libraries through the usage of ctypes .

Python modules and sample files are deployed as open source documents. There are two proxy modules provided:

- **PDF2Word.py**
- **PCS.py**

On windows these are located in the `<InstallDir>/Sources/Python` directory . The sample project itself is placed by default in the Documents directory, in the location of:

```
"%USERPROFILE%\Documents\PDF2Word Samples\Python"
```

It is strongly recommended to make a copy of Sample files on which you intend to work on, as this will make it easier to rollback changes if the need arises.

Due to its flexibility, Python Sample files are deployed without project files giving the user freedom to choose the tool for the testing. For the most universal approach this document will explain the usage through the bare command line interface. It is recommended to use Python version 3.6.6 or greater when running Sample files.

5.4.1. Resolving Dependencies

If you choose to leave the task of setting up Path variables automatically during the installation process (or they have been manually added), all the dependencies for Python Sample files should be immediately resolved.

Both Sample files and Proxy modules have pre-set path resolution to ensure seamless and quick integration to your environment. If the search for either a proxy library or native shared libraries fails, you have two options: either modify the search logic to meet your specific requirements, or put all of the necessary resources in the same directory.

The straightforward quick-fix in case of unresolved dependencies would be to move both proxy modules and Sample files to the location of the Shared library which is the `.\Sources\Python\` of the install directory for Windows, or `./bin` directory on Linux and macOS.

5.4.2. Running the Sample module

Sample modules are pre configured so that they can be run directly in trial mode without requiring the user to make any changes to the code. Simply run the Sample.py module with python, providing paths to the Input and Output file names as arguments.

Example: The following command on windows would convert file named *Tax.pdf* into Word file with the same name:

```
> py Sample.py F:\PDFs\Tax.pdf F:\Output\Tax.docx
```

This assumes that your current working directory (pwd) is the location of the Sample.py file, and that python shorthand variable is set to py.

It is also possible to load Sample.py into your favorite IDE and run from there. You only need to either provide command line arguments, or hard code paths to the Sample files themselves.

> **Note:** While running the module in trial mode doesn't require any changes to the Sample files themselves, when you purchase the Licence from Investintech.com you might need to change the parameter passed to Initialize() method. You can read more about licencing in Section 3.

When running a trial version of the SDK, a maximum of three pages of the input .pdf file will be converted, and a notice will be given about trial limitations at the end of the converted file.

5.5. Java Sample Project

This section explains how to quickly set up a Java proxy module which allows you to perform conversion using Java programming language through the proxy Shared Libraries and Java Wrapper.

Java proxy module consist out of two composite components:

- **PDF2Word.Java**[**.dll** | **.so** | **.dylib**] (Win | Linux | macOS)
- **PDF2Word.jar**

The JAR archive contains both Java class files and the source code of the Java wrapper to ensure flexibility and ease of use.

For easier initial integration .jar archive we have provided you with Sample projects.
This sample project on Windows is installed by default in the "Documents" directory, at the location of:

```
"%USERPROFILE%\Documents\PDF2Word Samples\Java.Java"
```

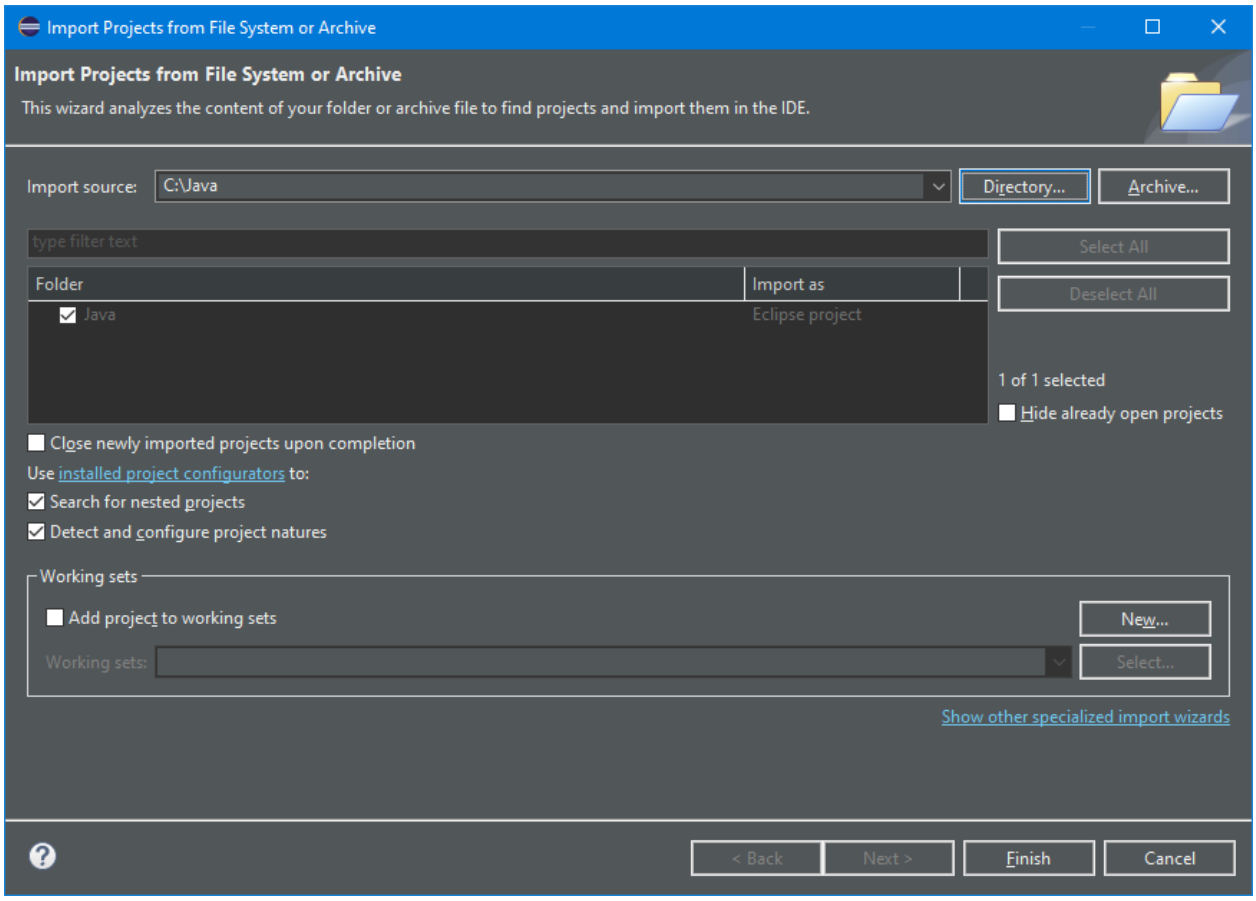
It is strongly recommended to make a copy of Sample files on which you intend to work on, as this will make it easier to rollback changes if the need arises.

5.5.1. Resolving Dependencies (Eclipse)

Sample files for Java come with a ready to load project for the Eclipse IDE. This guide will provide instructions for the integration of PDF2Word Java proxy library through the usage of Eclipse IDE (2020-09) as one of the most popular Java IDEs available.

These instructions assume that the user has already installed JDK(minimum version 8) and have successfully integrated Eclipse with the local environment.

To load the Sample project in Eclipse go to `File → Open Projects from file system...` From the Import Project Wizard click on Directory and browse to the location of the Java Sample files. After the project is imported and parsed by the IDE, simply click Finish to complete the project import.



After closing the Import Wizard you should see the project in the Package Explorer. At this point you are most likely getting unresolved dependency warnings for the PDF2Word project. In order to resolve these dependencies, you need to include the PDF2Word.jar archive into your project.

To include External JAR containing Java Wrapper for the C++ shared library, while having project selected (or right clicking on the project) navigate to:

`Project` → **`Properties`** → `(Left List)` **`Java Build Path`** → `(Tab)` **`Library`** → `(button)` **`Add External JARs..`**

From the file browser window, navigate to the install location of PDF2Word SDK and select the .jar file to import. Once a Java Archive file has been imported you should have all Java Native dependencies resolved.

> **Note:** It is also possible to extract source code from .jar archives.If you decide to do this you need to manually include `PDF2Word.java` and `Exception.java` files into your projects.

One more dependency issue that you may encounter is when Java Wrapper is not able to find PDF2Word.java Shared library. These libraries are built separately for each OS platform and have different extensions:

- Windows: PDF2Word.Java.dll
- Linux: libpdf2word.Java.so
- macOS: libpdf2word.Java.dylib

In order for the Java Virtual Machine to be able to find C++ Shared Library directory containing these libraries, your local environment should have set up the PATH variable (Win) or LD_LIBRARY_PATH (Linux). You can also explicitly assign it as a command line argument when running Sample.class, by using `-Djava.library.path=<path_to_lib>`

In order to setup Eclipse with additional path, you can the specific path to the IDE textbox at:

Run → Run Configurations → (Tab) Arguments → VM Arguments

Last but not least, the Proxy Library should be able to resolve the path to the natvie library. Proxy libraries will search for the nativ lib in the same directory where they are placed and in directories specified by PATH environment variables.

5.5.2. Resolving Dependencies (Terminal)

For the highest degree of compatibility, you can also use terminal to compile sample files. In order to resolve dependencies, pass on appropriate paths to classpath.

Example: On linux, assuming that your current directory is the location of Sample.java file, you can use following command to compile Sample file:

```
javac -classpath "/opt/pdf2word/lib/pdf2word.jar" Sample.java
```

Similar commands can be used on Windows, using OS specific paths.

5.5.3. Running the Sample application

Once you have resolved dependencies, you should be able to run Sample applications by providing input and output file paths, either as command line arguments or by hardcoding them in the Sample.java.

You can provide command line arguments through the Eclipse interface from:

Run → Run Configurations → (Tab) Arguments → Program Arguments

If you prefer, you can also run the binaries from the terminal. Keep in mind that you also need to provide a .jar archive containing wrapper Java classes for proxy libraries.

Example: You can use following command to run compiled Sample.class on Linux, assuming that the current directory is the directory of the binary file.:

```
java -Djava.library.path=/opt/pdf2word/lib/ -classpath
"/opt/pdf2word/lib/pdf2word.jar" Sample <in_path> <out_path>
```

Above command assumes that you have not set LD_LIBRARY_PATH in your local environment. For that reason we are passing on the explicit path of pdf2word.so to JVM.

After a short time, depending on the size of the PDF file, you should have your PDF file converted at the stated location.

> **Note:** While running the module in trial mode doesn't require any changes to the Sample files themselves, when you purchase the Licence from Investintech.com you might need to change the parameter passed to **`Initialize()`** method. You can read more about licencing in Section 3.

When running a trial version of the SDK, a maximum of three pages of the input .pdf file will be converted, and a notice will be given about trial limitations at the end of the converted file.

6. Appendices

6.1. A - Troubleshooting: Command Line Tool

We, at Investintech, do our best to make our applications and development tools as stable as possible. Of course, no application is errorless, and when an error does happen it can often be avoided by consulting with the following table:

Problem	**Possible Solutions**
Input file not found: <file Path/Name>	1. Use absolute file path example: "E:\PDFs\SomeFile.pdf" 2. Check the spelling 3. Use wildcard characters and/or recursion switch **-r** (section 3.4.1)
Output file exists: <file Path/Name>	1. Specify a different output Directory (section 3.4.2) 2. Deletethe previously created file at the location <file Path> 3. Use **-eo** or **-em** to overwrite or modify your output file name (section 3.4.6)
Unrecognized input file format: <file Path/Name>	1. When using multiple file conversions with wildcards: 1.1. Increase restrictions on mask Example: use .pdf extension (*.pdf) 1.2. Use **-g** switch to skip error (section 3.4.9) 2. When using single file conversion: 1.1. File format is not supported.

Problem	Possible Solutions
SAXParseException: Tag mismatch in line 9 column 4	1. Create or choose another template file (.pcvt) 2. Re-create an Option.pcvt file in Able2Extract Desktop App
Initialization failed: 10	1. Check for password and Licence integrity
PCS::ErrorCode::wrongParam	1. Check if correct parameters are used. For reference see (Section 3.4) 2. Make sure no space is provided between a flag and the passed parameter.
The filename, directory name, or volume label syntax is incorrect.	1. Make sure that the first argument is either the correct path to a file name, or a correctly formulated wildcard combination, followed by the **-i** switch with the correct folder location.

6.2. B - Troubleshooting: Shared Library

The table below contains the most common problems which users encounter when using Sample files. For a full list of possible errors, please refer to header file LIB.h, which can be used for reference when the conversion error is given in row value.

Problem	**Possible Solutions**
System.DllNotFoundException: 'Unable to load DLL 'PDF2Word.dll'	1. Make sure that the required files and directories are in the same directory as binaries (see section 5.2.1)
Warning LNK4272 library machine type 'x64' conflicts with target machine type 'x86'	1. Change your specified CPU platform architecture build from Configuration Manager in VS Section 5.2.1 2. Download the appropriate SDK build
Conversion failed: 3024 (File Save error)	1. Change your output file name 2. Delete the previous output file
Conversion failed: 5 Unrecognized File Type	1. Check the input file name for spelling errors 2. Include proper file extensions of the input file name 3. Choose .pdf file for input file
Conversion failed: 2 Wrong Param	1. Check the parameters passed 2. Check if format and formatting are compatible (Section 5.2.5)

Appendix C - Class and method Description

PDF2Word Proxy libraries public API consists of three static methods, a Document class containing Constructor used for opening the files, and five operational methods for operations to be performed on loaded files.

Summary of static class methods:

- `static void Initialize( String password )`

Perform initialization using a personalised password.

Must be first to run before any operational methods.
password -- Personalised password, which is the first licencing component.
The second part is the Licence.lic file that should reside in the tools directory.

- `static void UnInitialize()`

Perform Unintialization to conserve system resources when engine is no longer needed.

- `static void Convert( String inFilePath,`
  `String outFilePath,`
  `int format,`
  `int formatting,`
  `String templateFilePath,`
  `String filePassword )`

Convert PDF file passed as inFilePath to destination outFilePath

inFilePath -- Path to the input PDF file.
outFilePath -- Path to the output file.
format -- The output format of the converted file.
formatting -- The output formatting of the converted file.
templateFilePath (optional) -- Path to the template Options .pcvt file. **filePassword** -- Required for encrypted PDF files. Pass null if it is not required.

Instantiation of **Document** class is used to open PDF files.

- **Document(** String **inFilePath,**
  String **templateFilePath,**
  String **filePassword**)

For a more precise conversion, this class needs to be instantiated. Each object of this class holds exactly one PDF file. The corresponding functions can be used to reduce the PDF conversion to a specific page or page range.

inFilePath -- Path to the PDF file intended for conversion.
templateFilePath -- Path to the template Options.pcvt file.
filePassword -- Password for encrypted documents.

File operations can be performed on the instances of the Document class:

- void **Convert(** String **outFilePath,**
  int **format,**
  int **formatting,**
  String **templateFilePath**)

Convert PDF file passed as inFilePath to destination outFilePath

outFilePath -- Path to the output file.
format -- The output format of the converted file.
formatting -- The output formatting of the converted file.
templateFilePath (optional) -- Path to the template Options .pcvt file.

- int **GetPagesNum**()

Read the number of pages of the PDF file.
return integer -- Number of pages in the file.

- void **SelectPage**(int **pageNo**)

Select (mark) a single page for conversion.
pageNo -- Page number to be selected for conversion.

- `void` **`SelectPageRange`**`(int` **`firstPageNo`**`, int` **`lastPageNo`**`)`

Select (mark) multiple pages for the conversion.
firstPageNo --Number of first page to be converted (inclusive).
lastPageNo -- Number of last page to be converted (inclusive).

- `void` **`RemoveSelection`**`()`

Remove (unmark) selection for the current document.

Calling this method sets your selection to the default selection value which is all pages.
Calling the Convert() method after removing all selection will convert the whole document.

- `void` **`Close`**`()`

Close the PDF file associated with this object.