

## Welcome to pypdf

pypdf is a [free](#) and [open source](#) [pure-python](#) PDF library capable of splitting, merging, cropping, and transforming the pages of [PDF files](#). It can also add custom data, viewing options, and [passwords to PDF files](#). pypdf can retrieve text and metadata from PDFs as well.

See [pdfly](#) for a CLI application [that uses pypdf to interact](#) with PDFs.

You can contribute to [pypdf on GitHub](#).

## User Guide

- [Installation](#)
- [Migration Guide: 1.x to 2.x](#)
- [Imports and Modules](#)
- [\[REDACTED\]](#)
- [Robustness and strict=False](#)
- [Exceptions, Warnings, and Log messages](#)
- [Metadata](#)
- [Extract Text from a PDF](#)
- [Post-Processing of Text Extraction](#)
- [Extract Images](#)
- [Other images](#)
- [\[REDACTED\]](#)
- [Encryption and Decryption of PDFs](#)
- [Merging PDF files](#)
- [Cropping and Transforming PDFs](#)
- [Transforming several copies of the same page](#)
- [Reading PDF Annotations](#)
- [Adding PDF Annotations](#)
- [Adding a Stamp or Watermark to a PDF](#)



# Installation

There are several ways to install pypdf. The most common option is to use pip.

## pip

pypdf requires Python 3.7+ to run.

`pip`, a package installer. Using it you can install pypdf:

```
pip install pypdf
```

If you are not a super-user (root), you can also just install pypdf for your current user:

```
pip install --user pypdf
```

## Optional dependencies

pypdf tries to be as self-contained as possible, but for some tasks the amount of work to properly maintain the code would be the case for cryptography and image formats.

If you simply want to install all optional dependencies, run:

```
pip install pypdf[all]
```

Alternatively, you can install just some:

If you plan to use pypdf for encrypting or decrypting PDFs that use AES, you will need to install some extra dependencies. Encryption using RC4 is supported using the regular installation.

```
pip install pypdf[crypto]
```

If you plan to use image extraction, you need Pillow:

```
pip install pypdf[image]
```