

I'm not a bot



Trasformare in pdf/a

Application for creating and editing PDFs
PDF24 Creator/Developer(s)greek Software GmbHInitial releaseJuly 2006; 18 years ago (2006-07)[1]Stable release1.23.0[2][January 13, 2025; 4 months ago (2025-01-13) Operating systemMicrosoft WindowsTypePDF printer/creatorLicensefreeware[3]Websiteen.pdf24.org
PDF24 Creator is an application software by Geek Software GmbH for the creation of PDF files from any application and for converting files to the PDF format. The application is released under a proprietary freeware license. The software has been developed in Germany since 2006, originally under the name PDFDrucker,[1] and is actively developed. It is available in 32 languages, [4] including English and German. PDF24 Creator is installed as a virtual printer via a device driver in the operating system. This allows PDF files to be created directly from any application that provides a printing function. The commands sent are then used to create a PDF file. PDF24 Creator uses PDFBox, QPDF and Ghostscript, which are automatically installed as a private instances for the PDF24 Creator. After printing a document on the PDF printer, a wizard opens automatically, where the created PDF file can be edited or further worked on. The PDF24 Creator is also able to merge multiple documents to one PDF file and to extract pages. Compressing PDF files to shrink the file size is also possible. Since version 10.0.0 an added toolbox is present as well. Some features of the software include, but are not limited to:[5][6] Merge multiple PDF into one file
Rotating, extracting, inserting pages
Integrated preview for PDF editing
PDF encryption, decryption and signing
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PDF24 Creator is credited with more than a million downloads[7] within the top 20[17] of [8] in the category "PDF Software List" on the virtual code-sharing platform GitHub, a "PDFDrucker", pdf4.org (in German), Archived from the original on 2006-07-02. Retrieved 2016-05-30. PDF24 Creator "ChangeLog", en.pdf24.org, Retrieved 2024-02-16. "Licence", en.pdf24.org, Retrieved 2016-08-10. PDF24 Creator "ChangeLog", en.pdf24.org, Retrieved 2017-01-16. "PDF24 Creator Language File Translation", en.pdf24.org, Retrieved 2017-01-16. "Features of PDF24 Creator", en.pdf24.org, Retrieved 2017-01-16. ^ "PDF24 PDF Creator". Bizmo's Freeware. 2016-04-23. Archived from the original on 2017-01-18. Retrieved 2017-01-17. ^ "PDF24 Creator". CHIP Online. Retrieved 2017-01-16. ^ "PDF Software Top 100 Downloads des Monats - CHIP", www.chip.de. Retrieved 2017-01-17. Official website Retrieved from " Portable Document Format, a digital file format For other uses, see PDF (disambiguation). Portable Document FormatAdobe PDF iconFilename extension.pdfInternet media type application/pdf,[11] application/x-pdf application/x-bzpdf application/x-gzpdf file codePDF[11] (including a single trailing space)Uniform Type Identifier (UTI)(com.adobe.pdfMAGIC number%PDFDeveloped byAdobe Inc. (1991–2008) ISO (2008)—Initial release[June 15, 1993; 31 years ago (1993-06-15)]Latest release2.0 Extended to PDF/A, PDF/E, PDF/UA, PDF/VT, PDF/XStandardISO 32000-2Open formatYesWebsiteiso.org/standard/75839.html
Portable Document Format (PDF), standardized as ISO 32000, is a file format developed by Adobe in 1992 to present documents, including text formatting and images, in a manner independent of application software, hardware, and operating systems.[2][3] Based on the PostScript language, each PDF file encapsulates a complete description of a fixed-layout flat document, including the text, fonts, vector graphics, raster images and other information needed to display it. PDF has its roots in "The Camelot Project" initiated by Adobe co-founder John Warnock in 1991.[4] PDF was standardized as ISO 32000 in 2008.[5] The last edition as ISO 32000-2:2020 was published in December 2020.[6] PDF files may contain a variety of content besides flat text and graphics including logical structuring elements, interactive elements such as annotations and form-fields, layers, rich media (including video content), three-dimensional objects using 3D or PRC, and various objects of PDF specification and digital signatures and file attachments, as well as workflows to enable workflows, file attachments, as well as metadata to enable workflows, requiring these features. Main article: History of PDF
The development of PDF began in 1991 when John Warnock wrote a paper for a project that code-named "Camelot, in which he proposed the creation of a simplified version of PostScript called "Interchange PostScript (IPS)".[7] Unlike traditional PostScript, which has tightly focused on rendering print jobs to output devices, IPS would be optimized for displaying pages to any screen and any platform.[7] Adobe Systems made the PDF specification available free of charge in 1993. In the early years PDF was popular mainly in desktop publishing workflows, and competed with several other formats, including DjVu, Envoy, Common Ground Digital Paper, Farallon Replica and even Adobe's own PostScript format. PDF was a proprietary format controlled by Adobe until it was released as an open standard on July 1, 2008, and published by the International Organization for Standardization as ISO 32000-1:2008,[8][9] at which time control of the specification passed to an ISO Committee of volunteer industry experts. In 2008, Adobe published a Public Patent License to ISO 32000-1 granting royalty-free rights for all patents owned by Adobe necessary to make, use, sell, and distribute PDF-compliant implementations.[10] PDF 1.7, the sixth edition of the PDF specification that became ISO 32000-1, includes some proprietary technologies defined only by Adobe, such as Adobe XML Forms Architecture (XFA) and JavaScript extension for Acrobat, which are referenced by ISO 32000-1 as normative and indispensable for the full implementation of the ISO 32000-1 specification.[11] These proprietary technologies are not standardized, and their specification is published only on Adobe's website.[12][13][14] Many of them are not supported by popular third-party implementations of PDF. ISO published version 2.0 of PDF, ISO 32000-2 in 2017, available for purchase, replacing the free specification provided by Adobe.[15] In December 2020, the second edition of PDF 2.0, ISO 32000-2:2020, was published, with clarifications, corrections, and critical updates to normative references[16] ISO 32000-2 does not include any proprietary technologies as normative references.[17] In April 2023 the PDF association made ISO 32000-2 available for download free of charge.[19] A PDF file is often a combination of streams.[19] A PDF file is often a combination of streams.[19] The basic types of contents in a PDF are:
Typeset text stored as content streams (i.e. not encoded in plain text);
Vector graphics for illustrations and designs that consist of shapes and lines;
Raster graphics for photographs and other types of images; and
Other multi-media objects.
In later PDF revisions, a PDF document can also support links (inside document or web page), forms, JavaScript (initially available as a plugin for Acrobat 3.0), or any other types of embedded contents that can be handled using plug-ins. PDF combines three technologies: An equivalent subset of the PostScript page description programming language but in declarative form, for generating the layout and graphics. A font-embedding/replacement system to allow fonts to travel with the documents. A structured storage system to bundle these elements and any associated content into a single file, with data compression where appropriate. PostScript is a page description language run in an interpreter to generate an image.[7] It can handle graphics and has standard features of programming languages such as branching and looping.[7] PDF is a subset of PostScript, simplified to remove such control flow features, while graphics commands remain.[7] PostScript was originally designed for a drastically different use case: transmission of one-way linear print jobs in which the PostScript interpreter would collect a series of commands until it encountered the showpage command, then execute all the commands to render a page as a raster image to a printing device.[18] PostScript was not intended for long-term storage and real-time interactive rendering of electronic documents to computer monitors, so there was no need to support anything other than consecutive rendering of pages.[18] If there was an error in the final printed output, the user would correct it at the application level and send a new print job in the form of an entirely new PostScript file. Thus, any given page in a PostScript file could be accurately rendered only as the cumulative result of executing all preceding commands to draw all previous pages—any of which could affect subsequent pages—plus the commands to draw that particular page, and there was no easy way to do object, followed by the Resource end-of-file marker. If a cross-reference stream is not being used, the footer is preceded by a dictionary containing the cross-reference information that would otherwise be contained in the cross-reference stream object's dictionary. A reference to the root object of the tree structure, also known as the catalog (Root) The count of indirect objects in the cross-reference table (Size) Other optional information Within each page, there are one or multiple content streams that describe the text, vector and images being drawn on the page. The content stream is stack-based, similar to PostScript.[26] The maximum size of an Acrobat PDF page, superimposed on a map of Europe. There are two layouts to the PDF files: non-linearized (not "optimized") and linearized ("optimized"). Non-linearized PDF files can be smaller than their linear counterparts, though they are slower to access because portions of the data required to assemble pages of the document are scattered throughout the PDF file. Linearized PDF files (also called "optimized" or "web optimized" PDF files) are constructed in a manner that enables them to be read in a Web browser plugin without waiting for the entire file to download, since all objects required for the first page to display are optimally organized at the start of the file.[27] PDF files may be optimized using Adobe Acrobat software or QPDF. Page dimensions are not limited by the format itself. However, Adobe Acrobat imposes a limit of 15 million by 15 million inches, or 225 trillion in2 (145,161 km2).[2]:1129 The basic design of how graphics are represented in PDF is very similar to that of PostScript, except for the use of transparency, which was added in PDF 1.4. PDF graphics use a device-independent Cartesian coordinate system to describe the surface of a page. A PDF page description can use a matrix to scale, rotate, or skew graphical elements. A key concept in PDF is that of the graphics state, which is a collection of graphical parameters that may be changed, saved, and restored by a page description. PDF has (as of version 1.0) 25 graphics state properties, of which some of the most important are: The current transformation matrix (CTM), which determines the coordinate system. The clipping path. The color space. The alpha constant, which is a key component of transparency. Black point compensation control (introduced in PDF 2.0) As in PostScript, vector graphics in PDF are constructed with paths and cubic Bézier curves, but can also be constructed from the outlines of text. Unlike PostScript, PDF does not allow a single path to draw outlines with lines and curves. Paths can be stroked, filled, then stroked, or used for clipping. Strokes and fills can use any color set in the graphics state, including patterns. PDF supports several types of patterns. The simplest is the tiling pattern in which a piece of artwork is specified to be drawn repeatedly. This may be a colored tiling pattern, with the colors specified in the pattern object, or an uncolored tiling pattern, which defers color specification to the time the pattern is drawn. Beginning with PDF 1.3 there is also a shading pattern, which draws continuously varying colors. There are seven types of shading patterns of which the simplest are the axial shading (Type 2) and radial shading (Type 3). Raster images in PDF (called Image XObjects) are represented by dictionaries with an associated stream. The dictionary describes the properties of the image, and the stream contains the image data. (Less commonly, small raster images may be embedded directly in a page description as an inline image.) Images are typically filtered for compression purposes. Image filters supported in PDF include the following general-purpose filters: ASCII85Decode, a filter used to put the stream into 7-bit ASCII. ASCIIHexDecode, similar to ASCII85Decode but less compact. FlateDecode, a commonly used filter based on the deflate algorithm defined in RFC 1951 (deflate is also used in the gzip, PNG, and zip file formats among others); introduced in PDF 1.2; it can use one of two groups of predictor functions for more compact zlib/deflate compression: Predictor 2 from the TIFF 6.0 specification and predictors (filters) from the PNG specification (RFC 2038). LZWDecode, a filter based on LZW Compression; it can use one of two groups of predictor functions for more compact LZW compression: Predictor 2 from the TIFF 6.0 specification and predictors (filters) from the PNG specification (RFC 2038). LZWDecode, a filter based on LZW Compression; it can use one of two groups of predictor functions for more compact LZW compression: Predictor 2 from the TIFF 6.0 specification and predictors (filters) from the PNG specification (RFC 2038). RunLengthDecode, a lossy or lossless bi-level (black/white) filter based on the [JBIG2 subset of the JPEG 2000 standard. Introduced in PDF 1.5. Normally all image content in a PDF is embedded in the file. But PDF allows image data to be stored in external files by the use of external streams or Alternate Images. Standardized subsets of PDF, including PDF/A and PDF/X, prohibit these features. Text in PDF is represented by text elements in page content streams. A text element specifies that characters should be drawn at certain positions. The characters are specified using the encoding of a selected font resource. A font object in PDF is a description of a digital typeface. It may either describe the characteristics of a typeface, or it may include an embedded font file. The latter case is called an embedded font while the former is called an unembedded font. The font files that may be embedded are based on widely used standard digital font formats: Type 1 (and its compressed variant CFF), TrueType, and (beginning with PDF 1.6) OpenType. Additionally PDF supports the Type 3 variant in which the components of the font are described by PDF graphic operators. Fourteen typefaces, known as the standard 14 fonts, have a special significance in PDF documents: Times (v3) (in regular, italic, bold, and bold italic) Courier (in regular, oblique, bold and bold oblique) Helvetica (v3) (in regular, oblique, bold and bold oblique) Symbol Zap Dingbats These fonts are sometimes called the base fourteen fonts.[28] These fonts, or suitable substitute fonts with the same metrics, should be available in most PDF readers, but it is not guaranteed to be available in the reader, and may only display correctly if the system has them installed.[29] Fonts may be substituted if they are not embedded in a PDF. Within text strings, characters are shown using character codes (integers) that map to glyphs in the current font using an encoding. There are several encodings of a fixed string of characters, depending on the system used to create the PDF. The most common is the Adobe Standard Encoding, which maps the integer values 0 to 255 to the characters in the Adobe Standard Encoding. The Adobe Standard Encoding is the only encoding that can be used to export font data to a standard-alias files that can be imported back into the corresponding PDF interactive form. FDF was originally defined in 1996 as part of ISO 32000-2:2017 (citation needed) XML Forms Data Format (XFD) (external XML Forms Data Format Specification, Version 2.0), supported since PDF 1.5; it replaced the "XML" form submission format defined in PDF 1.4) The XML version of Forms Data Format, but the XFD implements only a subset of FDF containing forms and annotations. Some countries in the PDF dictionary do not have XFD equivalents – such as the Status, Encoding, JavaScript, Page's keys, EmbeddedPDFs, Differences, and Target. Instead, XFD does not allow the spawning, or addition, of new pages based on the given data; as can be done when using an FDF file. The XFD specification is referenced (but not included) in PDF 1.5 specification (and in later versions). It is described separately in XML Forms Data Format Specification.[57] The PDF 1.4 specification allowed form submissions in XML format, but this was replaced by submissions in XFD format in the PDF 1.5 specification. XFD conforms to the XML standard. XFD can be used in the same way as FDF, e.g., form data is submitted to a server, modifications are made, then sent back and the new form data is imported in an interactive form. It can also be used to export form data to stand-alone files that can be imported back into the corresponding PDF interactive form. As of August 2019, XFD 3.0 is an ISO/IEC standard under the formal name ISO 19444-1:2019 - Document management – XML Forms Data Format – Part 1: Use of ISO 32000-2 (XFD 3.0).[58] This standard is a normative reference to ISO 32000-2. PDF The entire content can be submitted rather than individual fields and values, as was defined in PDF 1.4. Acrobat forms can keep form field values in external stand-alone files containing key-value pairs. The external files may use Forms Data Format (FDF) and XML Forms Data Format (XFD) based on PDF, uses the same syntax and has essentially the same file structure, but is much simpler than PDF since the body of a FDF document consists of only one required object, Forms Data Format as defined in the PDF specification since PDF 1.2). The Forms Data Format can be used when submitting form data to a server, receiving the response, and incorporating it into the interactive form. It can also be used to export form data to stand-alone files that can be imported back into the corresponding PDF interactive form. 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XFD conforms to the XML standard. XFD can be used in the same way as FDF, e.g., form data is submitted to a server, modifications are made, then sent back and the new form data is imported in an interactive form. It can also be used to export form data to stand-alone files that can be imported back into the corresponding PDF interactive form. As of August 2019, XFD 3.0 is an ISO/IEC standard under the formal name ISO 19444-1:2019 - Document management – XML Forms Data Format – Part 1: Use of ISO 32000-2 (XFD 3.0).[58] This standard is a normative reference to ISO 32000-2. PDF The entire content can be submitted rather than individual fields and values, as was defined in PDF 1.4. Acrobat forms can keep form field values in external stand-alone files containing key-value pairs. The external files may use Forms Data Format (FDF) and XML Forms Data Format (XFD) based on PDF, uses the same syntax and has essentially the same file structure, but is much simpler than PDF since the body of a FDF document consists of only one required object, Forms Data Format as defined in the PDF specification since PDF 1.2). The Forms Data Format can be used when submitting form data to a server, receiving the response, and incorporating it into the interactive form. It can also be used to export form data to stand-alone files that can be imported back into the corresponding PDF interactive form. FDF was originally defined in 1996 as part of ISO 32000-2:2017 (citation needed) XML Forms Data Format (XFD) (external XML Forms Data Format Specification, Version 2.0), supported since PDF 1.5; it replaced the "XML" form submission format defined in PDF 1.4) The XML version of Forms Data Format, but the XFD implements only a subset of FDF containing forms and annotations. 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The external files may use Forms Data Format (FDF) and XML Forms Data Format (XFD) based on PDF, uses the same syntax and has essentially the same file structure, but is much simpler than PDF since the body of a FDF document consists of only one required object, Forms Data Format as defined in the PDF specification since PDF 1.2). The Forms Data Format can be used when submitting form data to a server, receiving the response, and incorporating it into the interactive form. It can also be used to export form data to stand-alone files that can be imported back into the corresponding PDF interactive form. FDF was originally defined in 1996 as part of ISO 32000-2:2017 (citation needed) XML Forms Data Format (XFD) (external XML Forms Data Format Specification, Version 2.0), supported since PDF 1.5; it replaced the "XML" form submission format defined in PDF 1.4) The XML version of Forms Data Format, but the XFD implements only a subset of FDF containing forms and annotations. 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