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Main article History of PDF The development of PDF began in 1991 when John Warnock wrote a paper for a project then code-named Camelot, in which he proposed the creation of a simplified version of PostScript (IPS).[7] Unlike traditional PostScript, which was 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, [8][9] at which time control of the specification passed to an ISO Committee of volunteer industry experts. 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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.[15] A PDF file is often a combination of vector graphics, text, and bitmap graphics. The basic types of content 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 multimedia objects. 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PostScript is a page description language 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 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 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 bypass that process to skip around to different pages.[18] Traditionally, to go from PostScript to PDF, a source PostScript to PDF, a source PostScript to PDF, a source PostScript to PDF code (see, e.g., Adobe Distiller). This is done by applying standard compiler techniques like loop unrolling, inlining and removing unused branches, resulting in code that is purely declarative and static.[18] The result is then packaged into a container format, together with all necessary dependencies for correct rendering (external files, graphics, or fonts to which the document refers), and compressed Modern applications write to printer drivers that directly generate PDF rather than going through PostScript first. As a document format, PDF has several advantages over PostScript first. As a document format, PDF has several advantages over PostScript first. complexity and security risks of an engine with such a higher complexity level. 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Beginning with PDF version 1.5, indirect objects (except other streams) may also be located in special streams known as object streams (marked /Type /ObjStm). This technique enables non-stream objects to have standard stream filters applied to them, reduces the size of files that have large numbers of small indirect objects and is especially useful for Tagged PDF. Object streams do not support specifying an object's generation number (other than 0). An index table, also called the cross-reference table, is located near the end of the file and gives the byte offset of each indirect object from the start of the file.[25] This design allows for small changes to be made without rewriting the entire file (incremental update). Before PDF version 1.5, the table would always be in a special ASCII format, be marked with the xref keyword, and follow the main body composed of indirect objects. Version 1.5 introduced optional cross-reference streams, which have the form of a standard stream may be used instead of the ASCII cross-reference streams, which have the form of a standard stream may be used instead of the ASCII cross-reference streams, which have the form of a standard stream may be used instead of the ASCII cross-reference streams, which have the form of a standard stream may be used instead of the ASCII cross-reference streams, which have the form of a standard stream may be used instead of the ASCII cross-reference streams, which have the form of a standard stream may be used instead of the ASCII cross-reference streams, which have the form of a standard stream may be used instead of the ASCII cross-reference streams, which have the form of a standard stream may be used instead of the ASCII cross-reference streams, which have the form of a standard stream may be used instead of the ASCII cross-reference streams, which have the form of a standard stream may be used instead of the ASCII cross-reference streams, which have the form of a standard stream may be used instead of the ASCII cross-reference streams, which have the form of a standard stream may be used instead of the ASCII cross-reference streams, which have the form of a standard stream may be used instead of the ASCII cross-reference streams, which have the form of a standard stream may be used instead of the ASCII cross-reference streams, which have the form of a standard stream may be used instead of the ASCII cross-reference streams, which have the form of a standard stream may be used instead of the ASCII cross-reference streams, which have the form of a standard stream may be used instead of the ASCII cross-reference streams, which have the form of a standard stream may be used instead of the ASCII cross-reference streams, which have the form of a standard stream may be used instead of the ASCII cross-reference stream may be used instead of th format. 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There are seven types of shading pattern, which draws continuously varying colors. 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.) Image stream contains the image data. the following general-purpose filters: ASCII85Decode, a filter used to put the stream into 7-bit ASCII, ASCIIHexDecode, similar to ASCII85Decode, similar to ASCII85Decode, similar to ASCII85Decode, a filter used to put the stream into 7-bit ASCII, ASCIIHexDecode, similar to ASCII85Decode, similar to ASC it can use one of two groups of predictor functions for more compact zlib/deflate compression: Predictor 2 from the TIFF 6.0 specification (RFC 2083), 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, RunLengthDecode, a simple compression method for streams with repetitive data using the run-length encoding algorithm and the image-specific filters, DCTDecode, a lossy filter based on the JPEG standard, CCITTFaxDecode, a lossless bi-level (black/white) filter based on the Group 3 or Group 4 CCITT (ITU-T) fax compression standard defined in ITU-T T.4 and T.6, JBIG2Decode, a lossy or lossless filter based on 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, or it may include an embedded 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 oblique) Symbol Zapf 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 they are 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 encodings. There are several predefined encodings, including WinAnsi, MacRoman, and many encodings for East Asian languages and a font can have its own built-in encodings for East Asian languages and a font can have its own built-in encodings for East Asian languages and a font can have its own built-in encodings for East Asian languages and a font can have its own built-in encodings for East Asian languages and a font can have its own built-in encodings for East Asian languages and a font can have its own built-in encodings. equally well on any platform.) PDF can specify a predefined encoding to use, the font's built-in encoding or provide a lookup table of differences to a predefined or built-in encoding (not recommended with TrueType fonts).[2] The encoding mechanisms in PDF were designed for Type 1 fonts, and the rules for applying them to TrueType fonts are complex. For large fonts or fonts with non-standard glyphs, the special encodings Identity-H (for vertical) are used. With such fonts, it is necessary to provide a ToUnicode table if semantic information about the characters is to be preserved. A text document which is scanned to PDF without the text being recognised by optical character recognition (OCR) is an image, with no fonts or text properties. The original imaging model of PDF was opaque, similar to PostScript, where each object drawn on the page completely replaced anything previously marked in the same location. In PDF 1.4 the imaging model was extended to allow transparency. When transparency is used, new objects interact with previously marked objects to produce blending effects. The addition of transparency to PDF 1.3 and earlier specifications. As a result, files that use a small amount of transparency might be viewed acceptably by older viewers, but files making extensive use of transparency could be viewed incorrectly by an older viewer. The transparency extensions are based on the key concepts of transparency groups, blending modes, shape, and alpha. The model is closely aligned with the features of Adobe Illustrator version 9. The blend modes were based on those used by Adobe Photoshop at the time. When the PDF 1.4 specification was published, the formulas for calculating blend modes were kept secret by Adobe. They have since been published. [30] The concept of a transparency group in PDF specification is independent of existing notions of "group" or "layer" in applications such as Adobe Illustrator. Those groupings reflect logical relationships among objects that are meaningful when editing those objects, but they are not part of the imaging model. See also: PDF/A-1 and PDF/UA A tagged PDF (see clause 14.8 in ISO 32000) includes document structure and semantics information to enable reliable text extraction and accessibility.[31] Technically speaking, tagged PDF is a stylized use of the format that builds on the logical structure framework introduced in PDF 1.3. Tagged PDF is not required in situations where a PDF file is intended only for print. Since the feature is optional, and since the rules for tagged PDF were relatively vague in ISO 32000-1, support for tagged PDF among consuming devices, including assistive technology (AT), is uneven as of 2021.[33] ISO 32000-2, however, includes an improved discussion of tagged PDF which is anticipated to facilitate further adoption. An ISO-standardized subset of PDF specifically targeted at accessibility, PDF/UA, was first published in 2012. With the introduction of PDF version 1.5 (2003) came the concept of Layers. Layers, more formally known as Optional Content Groups (OCGs), refer to sections of content in a PDF document that can be selectively viewed or hidden by document authors or viewers. This capability is useful in CAD drawings, layered artwork, maps, multi-language document root. This dictionary contains an array of Optional Content Groups (OCGs), each describing a set of information and each of which may be individually displayed or suppressed, plus a set of Optional Content Configuration Dictionaries, which give the status (Displayed or Suppressed) of the given OCGs. A PDF file may be encrypted, for security, in which case a password is needed to view or edit the contents. PDF 2.0 defines 256-bit AES encryption as the standard for PDF 2.0 files. The PDF Reference also defines ways that third parties can define their own encryption systems for PDF. PDF files may be digital
signatures in PDF are provided in ISO 32000-2. PDF files may also contain embedded DRM restrictions that provide further controls that limit copying, editing, or printing. These restrictions depend on the reader software to obey them, so the security provided by PDF consists of two different methods and two different methods and two different methods and two different methods are provided by PDF consists of two dif password, which specifies operations that should be restricted even when the document is decrypted, which can include modifying text notes and AcroForm fields. The user password encrypts the file, while the owner password does not, instead relying on client software to respect these restrictions. An owner password can easily be removed by software, including some free online services.[34] Thus, the use restrictions that a document author places on a PDF document are not secure, and cannot be assured once the file is distributed; this warning is displayed when applying such restrictions using Adobe Acrobat software to create or edit PDF files. Even without removing the password, most freeware or open source PDF readers ignore the permission "protections" and allow the user to print or make copies of excerpts of the text as if the document were not limited by password protection.[35][36][37] Beginning with PDF 1.5, Usage rights (UR) signatures are used to enable additional interactive features that are not available by default in a particular PDF viewer application. The signature is used to validate that the permissions have been granted by a bona fide granting authority. For example, it can be used to allow a user:[38] To save the PDF document along with a modified form or annotation data Import form data files in FDF, XFDF, and text (CSV/TSV) formats Export form data files in FDF and XFDF formats Submit form data files in FDF and XFDF Systems grants permissions to enable additional features in Adobe Reader, using public-key cryptography. Adobe Reader verificate authority. Any PDF application can use this same mechanism for its own purposes.[38] Under specific circumstances including non-patched systems of the receiver, the information the receiver of a digital signed document sees can be manipulated by the sender after the document has been signed by the sender after the document has been signed. [39] PAdES (PDF Advanced Electronic Signatures) is a set of restrictions and extensions to PDF and ISO 32000-1[40] making it suitable for advanced electronic Signatures. This is published by ETSI as TS 102 778.[41] PDF files can have file attachments which processors may access and open or save to a local filesystem.[42] PDF files can contain two types of metadata.[2] The first is the Document Information Dictionary, a set of key/value fields such as author, title, subject, creation and update dates. This is optional and is referenced from an Info key in the trailer of the file. A small set of fields is defined and can be extended with additional text values if required. This method is deprecated in PDF 1.4, support was added for Metadata Streams, using the Extensible Metadata Platform (XMP) to add XML standards-based extensible metadata as used in other file formats. PDF 2.0 allows metadata to be attached to any object in the document, such as information about embedded illustrations, fonts, and images, as well as the whole document (attaching to the document catalog), using an extensible schema. PDF document catalog in a Viewer Preferences object. Adobe Reader uses these settings to override the user's default settings when opening the document.[43] The free Adobe Reader cannot remove these settings. PDF files can be created specifically to be accessible to people with disabilities.[44][45][46][47][48] PDF file formats in use as of 2014[update] can include tags, text equivalents, captions, audio descriptions, and more. Some software can automatically produce tagged PDFs, but this feature is not always enabled by default.[49][50] Leading screen readers, including JAWS, Window-Eyes, Hal, and Kurzweil 1000 and 3000 can read tagged PDFs. [51][52] Moreover, tagged PDFs can be re-flowed and magnified for readers with visual impairments. Adding tags to older PDFs and those that are generated from scanned documents can present some challenges. One of the significant challenges with PDF accessibility is that PDF documents have three distinct views, which, depending on the document's creation, can be inconsistent with each other. The three views are (i) the physical view, (ii) the tags view, and (iii) the content view. The physical view is displayed and printed (what most people consider a PDF document). The tags view, and (iii) the content view is based on the physical order of objects within the PDF's content stream and may be displayed by software that does not fully support the tags' view, such as the Reflow feature in Adobe's Reader. PDF/UA, the International Standard for accessible PDF based on ISO 32000-1 was first published as ISO 14289-1 in 2012 and establishes normative language for accessible PDF technology. Rich Media PDF is a PDF file including interactive content that can be embedded or linked within the file. It can contain images, audio, video content, or buttons. For example, if the interactive PDF is a digital catalog for an E-commerce business, products can be listed on the PDF pages and can be added with images and links to the website and buttons to order directly from the document. Interactive Forms is a mechanism to add forms to the PDF file format. PDF currently supports two different methods for integrating data and PDF forms. Both formats today coexist in the PDF file format. PDF currently supports two different methods for integrating data and PDF forms. Both formats today coexist in the PDF file format. the PDF 1.2 format specification and included in all later PDF specifications. XML Forms Architecture (XFA) forms, introduced in the PDF 1.5 format specification. Adobe XFA Forms are not compatible with AcroForms.[56] XFA was deprecated from PDF with PDF 2.0. AcroForms were introduced in the PDF 1.2 format. AcroForms permit the uses of objects (e.g. text boxes, Radio buttons, etc.) and some code (e.g. JavaScript). Alongside the standard PDF action types, interactive forms (AcroForms) support submitting, resetting, and importing data. The "submit"
action transmits the names and values of selected interactive form fields to a specified uniform resource locator (URL). Interactive form field names and values may be submitted in any of the following formats, (depending on the settings of the action's ExportFormat, SubmitPDF, and XFDF flags):[38] HTML 2.0 since 1.2 Forms Data Format (FDF) based on PDF, uses the same syntax and has essentially the same file structure, but is much simpler than PDF since the body of an FDF document consists of only one required object. Forms Data Format is defined in the PDF specification (since PDF 1.2). The Forms Data Format can 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 (XFDF) (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 XFDF implements only a subset of FDF containing forms and annotations. Some entries in the FDF dictionary do not have XFDF 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 XFDF 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 XFDF format in the PDF 1.5 specification. XFDF conforms to the XML standard. XFDF can be used in the same way as FDF; e.g., 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, XFDF 3.0 is an ISO/IEC standard under the formal name ISO 32000-2 (XFDF 3.0).[58] This standard is a normative reference of ISO 32000-2. PDF The entire document can be submitted rather than individual fields and values, as was defined in PDF 1.4. AcroForms 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 (FDF) and XML Forms Data Format (VFDF) files.[59][57][60] The usage rights (UR) signatures define rights for import form data files in FDF, XFDF, and text (CSV/TSV) formats, and export form data files in FDF and XFDF formats. [38] In PDF 1.5, Adobe XML Forms are not compatible with ISO 32000's AcroForms feature, and most PDF processors do not handle XFA content. The XFA specification is referenced from ISO 32000-1/PDF 1.7 as an external proprietary specification and was entirely deprecated from PDF with ISO 32000-2 (PDF 2.0). Anyone may create applications that can read and write PDF files without having to pay royalties to Adobe Systems; Adobe holds patents to PDF, but licenses them for royalty-free use in developing software complying with its PDF specification.[61] See also: Adobe Acrobat § Security In November 2019, researchers from Ruhr University Bochum and Hackmanit GmbH published attacks on digitally signed PDFs.[62] They showed how to change the visible content in a signed PDF without invalidating the signature in 21 of 22 desktop PDF viewers and 6 of 8 online validation services by abusing implementation flaws. At the same conference, they additionally showed new so-called shadow attacks on PDFs that abuse the flexibility of features provided in the specification.[64] An overview of security issues in PDFs regarding denial of service, information disclosure, data manipulation, and other malware. They can have hidden JavaScript code that might exploit vulnerabilities in a PDF, hidden objects executed when the file that hides them is opened, and, less commonly, a malicious PDF can launch malware.[67] PDF attachments carrying viruses were first discovered in 2001. The virus, named OUTLOOK.PDFWorm or Peachy, uses Microsoft Outlook to send itself as an attached Adobe PDF file. It was activated with Adobe Acrobat, but not with Acrobat Reader.[68] From time to time, new vulnerabilities are discovered in various versions of Adobe Reader,[69] prompting the company to issue security fixes. Other PDF readers are also susceptible. One aggravating factor is that a PDF reader can be configured to start automatically if a web page has an embedded PDF file, providing a vector for attack. If a malicious web page contains an infected PDF file that takes advantage of a vulnerabilities are a result of the PDF reader, the system may be compromised even if the browser is secure. Some of these vulnerabilities are a result of the PDF reader can help mitigate such future exploits, although it does not protect against exploits in other parts of the PDF viewing software. Security benefit that comes from disabling JavaScript outweighs any compatibility issues caused. [70] One way of avoiding PDF file exploits is to have a local or web service convert files to another format before viewing. On March 30, 2010, security researcher Didier Stevens reported an Adobe Reader and Foxit Reader exploit that runs a malicious executable if the user allows it to launch when asked.[71] For a more comprehensive list, see List of PDF software. Many PDF viewers are provided free of charge from a variety of sources. Programs to manipulate and edit PDF files are available, usually for purchase. There are many software options for creating PDFs, including the PDF printing capabilities built into macOS, iOS,[72] and most Linux distributions. Much document processing software including LibreOffice, Microsoft Office 2007 (if updated to SP2) and later,[73] WordPerfect 9, and Scribus can export documents in PDF. There are many PDF print drivers for Microsoft Windows, the pdfTeX typesetting system, the DocBook PDF tools, applications developed around Ghostscript and Adobe Acrobat itself as well as Adobe InDesign, Adobe FrameMaker, Adobe Illustrator, Adobe Photoshop, that allow a "PDF printer" to be set up, which when selected sends output to a PDF file instead of a physical printer. Google's online office suite Google Docs allows uploading and saving to PDF. Some web apps offer free PDF editing and annotation tools. The Free Software Foundation was "developing a free, high-quality and fully functional set of libraries and programs that implement the PDF file format and associated technologies to the ISO 32000 standard", as one of its high priority projects. [74][75] In 2011, however, the GNU PDF project was removed from the list of "high priority projects. [74][75] In 2011, however, the GNU PDF project was removed from the list of "high priority projects. [74][75] In 2011, however, the GNU PDF project was removed from the list of "high priority projects. [74][75] In 2011, however, the GNU PDF project was removed from the list of "high priority projects. [74][75] In 2011, however, the GNU PDF project was removed from the list of "high priority projects. [74][75] In 2011, however, the GNU PDF project was removed from the list of "high priority projects. [74][75] In 2011, however, the GNU PDF project was removed from the list of "high priority projects. 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In 1993, the Jaws raster image processor from Global Graphics became the first shipping prepress RIP that interpreted PDF natively without conversion to another format. The company released an upgrade to its Harlequin RIP with the same capability in 1997.[82] Agfa-Gevaert introduced and shipped Apogee, the first prepress workflow system based on PDF, in 1997. Many commercial offset printers have accepted the submission of press-ready PDF files as a print source, specifically the PDF/X-1a subset and variations of the same.[83] The submission of press-ready PDF files as a print source, specifically the PDF/X-1a subset and variations of the same.[83] The submission of press-ready PDF files as a print source, specifically the PDF/X-1a subset and variations of the same.[83] The submission of press-ready PDF files as a print source, specifically the PDF/X-1a subset and variations of the same.[83] The submission of
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(November 2023) (Learn how and when to remove this message) See also: Comparison of note-taking software Adobe Acrobat is one example of proprietary software that allows the user to annotate, highlight, and add notes to already created PDF files. One UNIX application available as free software (under the GNU General Public License) is PDFedit. The freeware Foxit Reader, available for Microsoft Windows, macOS and Linux, allows annotations as does the open-source software Skim, with the latter supporting interaction with LaTeX, SyncTeX, and PDFSync and integration with BibDesk reference management software. Freeware Qigga can create an annotation report that summarizes all the annotations and notes one has made across their library of PDFs. The Text Verification Tool exports differences in documents as annotations and markups. There are also web annotation systems that support annotation is required. PDF's emphasis on preserving the visual appearance of documents across different software and hardware platforms poses challenges to the conversion of PDF documents to other file formation, and document metadata. Numerous tools and source code libraries support these tasks. Several labeled datasets to test PDF conversion and information extraction tools exist and have been used for benchmark evaluations of the tool's performance.[85] Main article: Open XML Paper Specification is a competing format used both as a page description language and as the native print spooler format for Microsoft Windows since Windows Vista. Mixed Object: Document Content Architecture is a competing format. MO:DCA-P is a part of Advanced Function Presentation. ebook Web page XSL Formatting Objects Page margin PDF portfolio ^ a b Hardy, M.; Masinter, L.; Markovic, D.; Johnson, D.; Bailey, M. (March 2017). The application/pdf Media Type. IETF. doi:10.17487/RFC8118. 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