Form W-4 (2005)

Purpose. Complete Form W-4 so that your employer can withhold the correct federal income tax from your pay. Because your tax situation may change, you may want to refigure your withholding each year.

Exemption from withholding. If you are exempt, complete only lines 1, 2, 3, 4, and 7 and sign the form to validate it. Your exemption for 2005 expires February 16, 2006. See Pub. 505, Tax Withholding and Estimated Tax.

Note. You cannot claim exemption from withholding if (a) your income exceeds \$800 and includes more than \$250 of unearned income (for example, interest and dividends) and (b) another person can claim you as a dependent on their tax return.

Basic instructions. If you are not exempt, complete the Personal Allowances Worksheet below. The worksheets on page 2 adjust your withholding allowances based on itemized deductions, certain credits, adjustments to income, or two-

earner/two-job situations. Complete all worksheets that apply. However, you may claim fewer (or zero) allowances.

Head of household. Generally, you may claim head of household filing status on your tax return only if you are unmarried and pay more than 50% of the costs of keeping up a home for yourself and your dependent(s) or other qualifying individuals. See line **E** below.

Tax credits. You can take projected tax credits into account in figuring your allowable number of withholding allowances. Credits for child or dependent care expenses and the child tax credit may be claimed using the Personal Allowances Worksheet below. See Pub. 919, How Do I Adjust My Tax Withholding? for information on converting your other credits into withholding allowances.

Nonwage income. If you have a large amount of nonwage income, such as interest or dividends, consider making estimated tax payments using Form 1040-ES, Estimated Tax for Individuals. Otherwise, you may owe additional tax

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or your records.)

Two earners/two jobs. If you have a working spouse or more than one job, figure the total number of allowances you are entitled to claim on all jobs using worksheets from only one Form W-4. Your withholding usually will be most accurate when all allowances are claimed on the Form W-4 for the highest paying job and zero allowances are claimed on the others.

Nonresident alien. If you are a nonresident alien, see the Instructions for Form 8233 before completing this Form W-4.

Check your withholding. After your Form W-4 takes effect, use Pub. 919 to see how the dollar amount you are having withheld compares to your projected total tax for 2005. See Pub. 919, especially if your earnings exceed \$125,000 (Single) or \$175,000 (Married).

Recent name change? If your name on line 1 differs from that shown on your social security card, call 1-800-772-1213 to initiate a name change and obtain a social security card showing your correct name.

Α	Enter "1" for yourself if no one else can cla	aim yo				Α
	You are single and have	only)	
В	Enter "1" if: \ \ \ You are married, have or		wo	ork; or	}	В
	Your wages from a second	d ja	ıl o	f both) are \$1,000	or less.	
С	Enter "1" for your spouse. But, you may cl	noo	an	d have either a w	orking spouse o	r
	more than one job. (Entering "-0-" may help	o yo	eld.)			С
D	Enter number of dependents (other than ye	our sp	on y	our tax return		D
Е	Enter "1" if you will file as head of househ	old on y	ons und	der Head of hous	sehold above) .	E
F	Enter "1" if you have at least \$1,500 of child	d or depend	es for whic	h you plan to clai	im a credit	F
	(Note. Do not include child support payme	nts. See Pub. 503, Chi	ld and Dependent	Care Expenses, f	or details.)	
G	Child Tax Credit (including additional child	tax credit):				
	• If your total income will be less than \$54					
	• If your total income will be between \$54,0		00 and \$119,000 if	married), enter "1	" for each eligible	
ш	child plus "1" additional if you have four or	•	the number of evens	tions you alaim on w	our toy roturn \	G
п	Add lines A through G and enter total here. (Note. For accuracy, • If you plan to itemize or	-				Deductions
	For accuracy, complete all f you plan to itemize or and Adjustments Worksh		income and want	o reduce your wii	uniolaing, see in	Deductions
	worksheets \ • If you have more than one		ou and your spouse	both work and the	e combined earning	gs from all jobs
	that apply. exceed \$35,000 (\$25,000 if m					
	• If neither of the above si	tuations applies, stop h	ere and enter the r	number from line I	H on line 5 of For	m W-4 below.
	W_1 Employed	e Withholdin	o Allowance	Cartificat	to 10	MB No. 1545-0010
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Dep	artment of the Treasury nal Revenue Service Whether you are entitive subject to review by the	eled to claim a certain num e IRS. Your employer may	ber of allowances or be required to send a	exemption from with a copy of this form	thholding is to the IRS. 2 Your social security in the IRS.	2005 rity number ligher Single rate.
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Α	Enter "1" for yourself if no one else can cla						A
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В	Enter "1" if: You are married, have o			work; or	00 1	}	В
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D	Enter number of dependents (other than you			n your tax return			E
E	Enter "1" if you will file as head of househ			ınder Head of h		,	E
F	Enter "1" if you have at least \$1,500 of chi			nich you plan to			ь
	(Note. Do not include child support payme		hild and Depender	nt Care Expenses	s, for details	.)	
G	Child Tax Credit (including additional child	,					
	• If your total income will be less than \$54						
	• If your total income will be between \$54,0			if married), enter	"1" for each	n eligible	G
ш	child plus "1" additional if you have four or Add lines A through G and enter total here. (Note.	•		nntione veu eleim e	n valir tav rati	IKD /	G
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Deplinter 1 5 6 7	Type or print your first name and middle initial Home address (number and street or rural route) City or town, state, and ZIP code Total number of allowances you are claim Additional amount, if any, you want withh I claim exemption from withholding for 20 Last year I had a right to a refund of all This year I expect a refund of all federall you meet both conditions, write "Exempler penalties of perjury, I declare that I have examined ployee's signature	ing (from line H aboveled from each paych of, and I certify that I federal income tax withhele of here	3 Single Note. If married, bu 4 If your last card, chec e or from the appl eck meet both of the withheld because I d because I expec e best of my knowledge	or exemption from d a copy of this for d a copy of this form d a copy o	withholding is rem to the IRS. 2 Your so arried, but with ouse is a nonresident that shown of all 1-800-772-1 on page 2)	cial secur inhold at hi ent alien, ch on your se 213 for a 5 6 nption.	2005 ity number gher Single rate. eck the "Single" box. ocial security new card. ▶ \$
Deplinter 1 5 6 7	Total number of allowances you are claim Additional amount, if any, you want withh I claim exemption from withholding for 20 Last year I had a right to a refund of all This year I expect a refund of all federal from meet both conditions, write "Exempler penalties of perjury, I declare that I have examined ployee's signature rm is not valid ess you sign it.)	ing (from line H aboveled from each paych of, and I certify that I federal income tax withhele of here	3 Single Note. If married, bu 4 If your last card, chec e or from the appl eck meet both of the withheld because I d because I expec e best of my knowledge	or exemption from d a copy of this for d a copy of this form d a copy of the copy of the copy of the copy of this form d a copy of the copy of this form d a c	withholding is rem to the IRS. 2 Your so arried, but with ouse is a nonresident that shown of all 1-800-772-1 on page 2)	cial secur inhold at hi ent alien, ch on your se 213 for a 5 6 nption.	gher Single rate. eck the "Single" box. ocial security new card. >
Deplinter 1 5 6 7	Total number of allowances you are claim Additional amount, if any, you want withh I claim exemption from withholding for 20 Last year I had a right to a refund of all This year I expect a refund of all federal from meet both conditions, write "Exempler penalties of perjury, I declare that I have examined ployee's signature rm is not valid ess you sign it.)	ing (from line H aboveled from each paych of, and I certify that I federal income tax withhele of here	3 Single Note. If married, bu 4 If your last card, chec e or from the appl eck meet both of the withheld because I d because I expec e best of my knowledge	or exemption from d a copy of this for d a copy service and end of the copy of the copy of the copy of this for d a copy of the copy of this for d a copy of	withholding is rem to the IRS. 2 Your so arried, but with ouse is a nonresident that shown of all 1-800-772-1 on page 2)	cial secur inhold at hi ent alien, ch on your se 213 for a 5 6 nption.	gher Single rate. eck the "Single" box. ocial security new card. >

Form W-4 (2005) Page **2**

			Deduct	ions and Adj	ustments W	orksheet				
Note 1	Enter an estil charitable comiscellaneous	sheet <i>only</i> if you plan to mate of your 2005 iter ntributions, state and les deductions. (For 200 950 (\$72,975 if married	mized dedu ocal taxes, l 5, you may	ctions. These in medical expense have to reduce	nclude qualifying es in excess of e your itemized	g home me 7.5% of yelloctions	ortgage inte our income, s if your inc	erest, and come	n your 2005 1 \$	tax return.
		10,000 if married filing								
2	I	7,300 if head of house			(2 \$	
2	1 .	,							<u> </u>	
_	•	5,000 if single or mari	-		J				- 4	
3		2 from line 1. If line 2	•	•					3 \$	
4	Enter an estimat	te of your 2005 adjustments	to income, inc	luding alimony, de	ductible IRA contrib	outions, and s	student loan in	terest	4 \$	
5	Add lines 3 a	and 4 and enter the tot	al. (Include	any amount for	credits from W	orksheet 7	' in Pub. 919	9) .	5 \$	
6	Enter an estir	mate of your 2005 non	wage incom	ne (such as divi	dends or interes	st)			6 \$	
7	Subtract line	6 from line 5. Enter th	e result, bu	t not less than	"-0-"				7 \$	
8	Divide the an	mount on line 7 by \$3,2	200 and ent	er the result he	re. Drop any fra	action			8	
9		nber from the Persona							9	
10		nd 9 and enter the tota					Worksheet,			
. •		al on line 1 below. Oth	,				line 5, page		10	
		Two-Earner/T					bs on pag			
Noto	Lloo thin wo	rksheet <i>only</i> if the instr		_	`			<i>y</i> - /_		
_		•				ere.	namta Washa	haat\	4	
1		per from line H, page 1 (or		_ '	5		nents Works		·	
2		ber in Table 1 below t					nere		2	
3		ore than or equal to			result here (if zero, enter					
	,	Form W-4, line 5, pag							3	
Note		ess than line 2, enter "			ρle	ete lines 4-	-9 below to	calcula	te the addit	ional
	withholding	amount necessary to a	avoid a year	r-end .						
4	Enter the nur	nber from line 2 of this	worksheet			4				
5	Enter the nur	nber from line 1 of this	worksheet			5				
6	Subtract line	5 from line 4							6	
7	Find the amo	ount in Table 2 below t	hat applies	to the HIGHES	T paying job ar	nd enter it l	here		7 \$	
8		7 by line 6 and enter t							8 \$	
9		by the number of pay					-			
•		eks and you complete								
		1. This is the additional							9 \$	
			Table 1:	Two-Earner	/Two-Job W	orksheet	:			
			Married Fil	ing Jointly					All O	thers
If wag	ges from HIGHEST	AND, wages from LOWEST	Enter on	If wages from HIGH	ST AND, wages fr	om LOWEST	Enter on	If wages	from LOWEST	Enter on
payin	g job are—	paying job are—	line 2 above	paying job are—	paying job are-		line 2 above	paying jo		line 2 above
9	\$0 - \$40,000	\$0 - \$4,000 4.001 - 8.000	0	\$40,001 and ove	er 30,001 - 36,001 -		6		0 - \$6,000 1 - 12.000	0 1
		8,001 - 18,000	2		45,001 -		7 8	- ,	1 - 18,000	2
		18,001 and over	3	3		60,000	9		1 - 24,000	3
\$40	,001 and over	\$0 - \$4,000 0 4,001 - 8,000 1			60,001 - 65,001 -		10 11		1 - 31,000 1 - 45,000	4 5
	,				75,001 -	90,000	12	45,00	1 - 60,000	6
		8,001 - 18,000 18,001 - 22,000	2		90,001 -		13		1 - 75,000	7
		22,001 - 25,000	3 4		100,001 - 115,001 a		14		1 - 80,000 1 - 100,000	8 9
		25,001 - 30,000	5		,		15		1 and over	10
			Table 2:	Two-Earner	/Two-Job W	orksheet				
		Married Filing Join	All Others							
If wages from HIGHEST			Enter on		If wages from HIGHEST			Enter on		
	paying job		line	7 above	paying job are—			line 7 above		
		0 - \$60,000 1 - 110.000		\$480 800	\$0 - \$30,000 \$480 30,001 - 70,000 800				8480 800	
60,001 - 110,000 800 110,001 - 160,000 900					70,001 - 140,000 900				900	
160,001 - 280,000				1,060	60 140,001 - 320,000			1,060		
	280,001 and over 1,120 320,001 and over 1,120							, IZU		

Privacy Act and Paperwork Reduction Act Notice. We ask for the information on this form to carry out the Internal Revenue laws of the United States. The Internal Revenue Code requires this information under sections 3402(f)(2)(A) and 6109 and their regulations. Failure to provide a properly completed form will result in your being treated as a single person who claims no withholding allowances; providing fraudulent information may also subject you to penalties. Routine uses of this information include giving it to the Department of Justice for civil and criminal litigation, to cities, states, and the District of Columbia for use in administering their tax laws, and using it in the National Directory of New Hires. We may also disclose this information to other countries under a tax treaty, to federal and state agencies to enforce federal nontax criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism.

You are not required to provide the information requested on a form that is subject to

the Paperwork Reduction Act unless the form displays a valid OMB control number. Books or records relating to a form or its instructions must be retained as long as their contents may become material in the administration of any Internal Revenue law. Generally, tax returns and return information are confidential, as required by Code section 6103.

The time needed to complete this form will vary depending on individual circumstances. The estimated average time is: Recordkeeping, 45 min.; Learning about the law or the form, 12 min.; Preparing the form, 58 min. If you have comments concerning the accuracy of these time estimates or suggestions for making this form simpler, we would be happy to hear from you. You can write to: Internal Revenue Service, Tax Products Coordinating Committee, SE:W:CAR:MP:T:T:SP, 1111 Constitution Ave. NW, IR-6406, Washington, DC 20224. **Do not** send Form W-4 to this address. Instead, give it to your employer.



Form W-4 (2005) Page **2**

			Deduct	ions and Adj	ustments Worksheet				
1	Enter an esti charitable co miscellaneou is over \$145,	mate of your 2005 iter ntributions, state and less deductions. (For 200 950 (\$72,975 if married	itemize deductions, claim certain credits, or claim adjustments to income on your 2005 tax return. nized deductions. These include qualifying home mortgage interest, ocal taxes, medical expenses in excess of 7.5% of your income, and 5, you may have to reduce your itemized deductions if your income d filing separately). See Worksheet 3 in Pub. 919 for details.)						
2	1	7,300 if head of house 5,000 if single or man		enarately	}			2 \$	
3	•	2 from line 1. If line 2	_		J r "_∩_"			3 \$	
4			•		ductible IRA contributions, and	· · ·	toroct	4 \$	
				-	credits from <i>Worksheet 7</i>			5 \$	
6			•	•	dends or interest)		,	6 \$	
			-		"-0-"			7 \$	
8					re. Drop any fraction			8	
9		mber from the Persona			page 1			9	
		and 9 and enter the total			er/Two-Job \			<u> </u>	
10		al on line 1 below. Oth			Form W-4,			10	
		Two-Earner/T				bs on pag			
Note	Use this wo	rksheet <i>only</i> if the instr	uctions u		ere.		,		
1		per from line H, page 1 (or				nents Works	heet)	1	
2		ber in Table 1 below t				nere	,	2	
		ore than or equal to				re (if zero, e			
Ü		Form W-4, line 5, pag						3	
Note	,	ess than line 2, enter "			plete lines 4-				ional
		amount necessary to a							
4	_	nber from line 2 of this	-		4				
5	Enter the nur	nber from line 1 of this	worksheet		5				
6	Subtract line	5 from line 4						6	
7	Find the amo	ount in Table 2 below t	hat applies	to the HIGHES	T paying job and enter it	nere		7 <u>\$</u> 8 \$	
8					additional annual withhold			8 \$	
9	Divide line 8	by the number of pay	periods rem	aining in 2005.	For example, divide by 26	if you are	paid		
	every two we	eks and you complete	this form in	December 200	4. Enter the result here an	d on Form	N-4,		
	line 6, page	1. This is the additional			m each paycheck			9 \$	
					/Two-Job Worksheet				
		T	Married Fil						thers
	es from HIGHEST i job are—	AND, wages from LOWEST paying job are—	Enter on line 2 above	If wages from HIGHI paying job are—	paying job are—	Enter on line 2 above	paying jo		Enter on line 2 above
\$	0 - \$40,000	\$0 - \$4,000 4,001 - 8,000	0	\$40,001 and ove	97 30,001 - 36,000 36,001 - 45,000	6 7		0 - \$6,000 1 - 12,000	0 1
		8,001 - 18,000	2		45,001 - 50,000	8	12,001 - 18,000		2
		18,001 and over	3		50,001 - 60,000 60,001 - 65,000	9 10	18,001 - 24,000 24,001 - 31,000		3 4
\$40,	001 and over	\$0 - \$4,000	0		65,001 - 75,000	11	31,00	1 - 45,000	5
		4,001 - 8,000 8,001 - 18,000	1 2		75,001 - 90,000 90,001 - 100,000			1 - 60,000 1 - 75,000	6 7
		18,001 - 22,000	3		100,001 - 115,000	14 75,00		1 - 80,000	8
		22,001 - 25,000 25,001 - 30,000	4 5		115,001 and over	15		1 - 100,000 1 and over	9 10
				Two-Earner	/Two-Job Worksheet		,		-
		Married Filing Join				All Othe	rs		
	If wages paying jol	from HIGHEST		er on 7 above	If wages from H	Enter on line 7 above			
		0 - \$60,000	111111111111111111111111111111111111111	\$480	paying job are— \$0 - \$30,000			line / above \$480	
	60,00	1 - 110,000		800	30,001 - 7		800		
		11 - 160,000 11 - 280,000	900 1,060 1,120		70,001 - 140,000 140,001 - 320,000 320,001 and over			900 1,060 1,120	
		1 and over							

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Portable Document Format

From Wikipedia, the free encyclopedia.

"PDF" redirects here. For other uses, see <u>PDF (disambiguation)</u>.

Portable Document Format (**PDF**) is a <u>file format</u> developed by <u>Adobe Systems</u> for representing documents in a manner that is independent of the original application <u>software</u>, <u>hardware</u>, and <u>operating system</u> used to create those documents. A PDF file can describe documents containing any combination of text, graphics, and images in a <u>device independent</u> and <u>resolution</u> independent format. These documents can be one page or thousands of pages, very simple or extremely complex with a rich use of fonts, graphics, colour, and images. PDF is an <u>open standard</u>, and anyone may write applications that can read or write PDFs royalty-free.

In addition to encapsulating text and graphics, PDF files are most appropriate for encoding the exact look of a document in a device-independent way. In contrast, markup languages such as HTML defer many display decisions to a rendering device such as a browser, and will not look the same on different computers.

Free readers for many platforms are a there are several free open source of the X Window System; KPDF [3] Xpdf for GNOME, Evince [5], a CPDF-files; GSPdf [6] and ViewP Ghostscript.

Proper subsets of PDF, collectively

and from the Adobe website [1], and [2] for POSIX-like systems with or KDE; GPdf [4], a derivative of IE (fork of GPdf) that can view ont-ends for many platforms to

en standardized by ISO.

Contents

[show]

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[edit]

Technology

PDF is primarily the combination of three technologies:

- a cut-down form of PostScript for generating the layout and graphics,
- a font-embedding/replacement system to allow fonts to travel with the documents, and
- a structured <u>storage system</u> to bundle these elements into a single file, with <u>data compression</u> where appropriate.

[edit]

PostScript

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Portable Document Format (**PDF**) is a <u>file format</u> developed by <u>Adobe Systems</u> for representing documents in a manner that is independent of the original application <u>software</u>, <u>hardware</u>, and <u>operating system</u> used to create those documents. A PDF file can describe documents containing any combination of text, graphics, and images in a <u>device independent</u> and <u>resolution</u> independent format. These documents can be one page or thousands of pages, very simple or extremely complex with a rich use of fonts, graphics, colour, and images. PDF is an <u>open standard</u>, and anyone may write applications that can read or write PDFs royalty-free.

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PostScript

<u>PostScript</u> is a <u>computer language</u> — more precisely, a <u>page description language</u> — that is run in an <u>interpreter</u> to generate an image. This process requires a fair amount of resources.

PDF is a subset of those PostScript language elements that define the graphics, and only requires a very simple interpreter. For instance, flow control commands like if and loop are removed, while graphics commands such as lineto remain.

That means that the process of turning PDF back into a graphic is a matter of simply reading the description, rather than running a program in the PostScript interpreter. However, the entire PostScript world in terms of fonts, layout and measurement remains intact.

Often, the PostScript-like PDF code is generated from a source PostScript file. The graphics commands that are output by the PostScript code are collected and <u>tokenized</u>; any files, graphics or fonts the document references are also collected; and finally everything is compressed into a single file.

As a document format, PDF has several advantages over PostScript. One is that a document resides in a single file, whereas the same document in PostScript may span multiple files (graphics, etc.) and probably occupies more space. In addition, PDF contains alreadyinterpreted results of the PostScript source code, so it is less computation-intensive and faster to open, and there is a more direct correspond between changes to items in the PDF page description and changes to the resulting page. Also, PDF (starting from version 1.4) supports true object tra ript does not. Finally, if displayed with Adobe Reader, a font-substit ocument will be readable even if the end-user does not have the "p lso allows font embedding to ensure that the "proper" fonts are sible with PostScript, such files cannot normally be distributed fre g agreements.

[edit]

History

When PDF first came out, in the early 1990s, it was slow to catch on. At the time, not only did the only PDF creation tools of the time (Acrobat) cost money, but so did the software to view and print PDF files. Early versions of the PDF format had no support for external hyperlinks, reducing its usefulness on the web. Additionally, there were competing formats such as Envoy, Common Ground Digital Paper, DjVu and even Adobe's own PostScript file format (.ps). Adobe started distributing the Acrobat Reader program at no cost, and continued to support PDF through its slow multi-year ramp-up. Competing formats eventually died out, and PDF became a well-accepted standard.

In <u>2005 Microsoft</u> presented a competing format referenced by the <u>code name</u> "Metro". It is developed together with <u>Global Graphics</u>. Metro is based on <u>XML</u>, but requires a license. Metro is scheduled to be included in the next version of Microsoft Windows <u>Vista</u>.

[edit]

Macintosh

PDF was selected as the "native" metafile format for Mac OS X, replacing the PICT format of the earlier Mac OS. Mac OS X's imaging model, Quartz 2D, is based on both the Display

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<u>PostScript</u> standard and PDF, and is sometimes referred to as <u>Display PDF</u>. Due to OS support, all OS X applications can create PDF documents automatically as long as they support the Print command.

[edit]

PDF and accessibility

PDF can be accessible to people with disabilities. Current PDF file formats can include tags (essentially <u>XML</u>), text equivalents, captions and audio descriptions, and other accessibility features. Some software, such as <u>Adobe InDesign</u>, can output tagged PDFs automatically. Leading <u>screen readers</u>, including Jaws, Window-Eyes, and Hal, can read tagged PDFs; current versions of the Acrobat and Acrobat Reader programs can also read PDFs out loud. Moreover, tagged PDFs can be reflowed and zoomed for low-vision readers.

However, many problems remain, not least of which is the difficulty in adding tags to existing or "legacy" PDFs; for example, if PDFs are generated from scanned documents, accessibility tags and reflowing are unavailable and must be created either by hand or using OCR techniques. Moreover, that process itself is inaccessible. Nonetheless, well-made PDFs can be a valid choice as long-term accessible documents. (Work is being done on a PDF variant based on PDF 1.4. The PDF/A or PDF-A sifically scaled down for archival purposes.)

PDFs, but only if the Word

using styles, correct paragraph

Microsoft Word documents can be document is written with accession mark-up and "alt" (alternative) te

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PDF on the Web

Because <u>HTML</u>/ rendering across web browsers has historically been inconsistent and sometimes unpredictable, PDF use online is becoming increasingly common. This is particularly true for order forms, catalogues, brochures, and other documents which are primarily formatted for printing. The ubiquity of the Adobe Reader web browser plugin, however, has inspired some (mostly corporate) web authors to publish a wider variety of information as PDF. This trend is compounded by the simple operation and wide corporate availability of <a href="https://www.wys.uc.google.com/wys.goo

Critics of this practice cite several reasons for avoiding it. Accessibility, particularly by the <u>blind</u> or <u>sight-impaired</u> is a common issue [8]. PDF files tend to be significantly larger than XHTML/<u>SVG</u> files presenting the same information, making it difficult or impossible for users with low-bandwidth connections to view them. Adobe Acrobat Reader, the de facto standard PDF viewer, has historically been slow to start and caused browser instability, particularly when run alongside other browser plugins (though the release of Adobe Reader 7 addressed many of these concerns).

<u>PostScript</u> standard and PDF, and is sometimes referred to as <u>Display PDF</u>. Due to OS support, all OS X applications can create PDF documents automatically as long as they support the Print command.

[edit]

PDF and accessibility

PDF can be accessible to people with disabilities. Current PDF file formats can include tags (essentially <u>XML</u>), text equivalents, captions and audio descriptions, and other accessibility features. Some software, such as <u>Adobe InDesign</u>, can output tagged PDFs automatically. Leading <u>screen readers</u>, including Jaws, Window-Eyes, and Hal, can read tagged PDFs; current versions of the Acrobat and Acrobat Reader programs can also read PDFs out loud. Moreover, tagged PDFs can be reflowed and zoomed for low-vision readers.

However, many problems remain, not least of which is the difficulty in adding tags to existing or "legacy" PDFs; for example, if PDFs are generated from scanned documents, accessibility tags and reflowing are unavailable and must be created either by hand or using OCR techniques. Moreover, that process itself is inaccessible. Nonetheless, well-made PDFs can be a valid choice as long-term accessible documents. (Work is being done on a PDF variant based on PDF 1.4. The PDF/A or PDF-A rifically scaled down for archival purposes.)

PDFs, but only if the Word

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Currently, no web browser natively supports PDF, forcing viewers to run a seperate application to access these documents online. Since the PDF specification is not published by the W3C, this is unlikely to change.

[edit]

Searching for a text in a collection of files

Adobe Acrobat Reader 6.0 and above allow searching a collection of PDF files.

Using a search program to search for a text in a collection of files of different types, it may or may not be possible to also search PDF files, depending on the program. This is because the text is stored in coded form, and a program searching for some text must interpret the code and search the result, not just search the code.

Search programs that do not work include that of <u>Windows XP</u> and <u>Agent Ransack</u>. However, for searching the Web, some search engines, such as <u>Google</u> and <u>Yahoo!</u>, include PDF files in searches. The option to view the PDF in HTML format is also commonly offered (this conversion does not include images).

Mac OS X, having PDF as a core element ting system, fully supports searching PDF files with the Preview application of the Spotlight feature in Mac OS X v10.4 extends this ability across the Spotlight feature in Mac OS X v10.4 extends this ability across the Spotlight feature in Mac OS X v10.4 extends this ability across the Spotlight feature in Mac OS X v10.4 extends this ability across the Spotlight feature in Mac OS X v10.4 extends this ability across the Spotlight feature in Mac OS X v10.4 extends this ability across the Spotlight feature in Mac OS X v10.4 extends this ability across the Spotlight feature in Mac OS X v10.4 extends this ability across the Spotlight feature in Mac OS X v10.4 extends this ability across the Spotlight feature in Mac OS X v10.4 extends this ability across the Spotlight feature in Mac OS X v10.4 extends this ability across the Spotlight feature in Mac OS X v10.4 extends this ability across the Spotlight feature in Mac OS X v10.4 extends this ability across the Spotlight feature in Mac OS X v10.4 extends the Spotlight

On the Windows platform, text in and also Windows Desktop Search Adobe.

using Google Desktop Search
propriate iFilter available from

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Types of content

A PDF file for e.g. a <u>map</u> is often a combination of <u>vector graphics</u> <u>layer</u>, text, and <u>raster</u> <u>graphics</u>, e.g., the general reference map of the US [9] uses:

- vector graphics for <u>coastlines</u>, <u>lakes</u>, <u>rivers</u>, <u>highways</u>, markings of cities, and <u>Interstate highway</u> symbols on zooming in, the curves remain sharp, they do not appear as consisting of enlarged pixels (i.e. rectangles of pixels)
- text stored as such scalable, and also one can copy the text
- raster graphics for showing mountain relief on zooming in, this consists of enlarged pixels (the blue of the sea and lakes is "filled" neatly to the vector graphics coast line, hence not in raster graphics).

An example of a PDF map without raster graphics is the <u>CIA World Factbook</u>'s <u>map of the Arctic</u>. In the same publication's <u>European map</u>, the blue of the sea is not "filled" neatly to the vector graphics coast line, but just raster graphics, giving a cruder result (noticeable when highly zoomed in).

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Tools exist, such as pdfimages (bundled with Xpdf) to extract the raster images from a PDF file. This can be extremely useful if the PDF is simply a collection of scanned pages.

[edit]

See also

- Display PostScript
- Scalable Vector Graphics
- XSL-FO

[edit]

Other Wikipedia articles about tools, utilities and products related to this article

- <u>Ghostscript</u> Displays PDF files, converts to and from PS.
- OpenOffice.org Can transform many types of documents into PDF documents.

Windows.

• Panda library

PdfTeX — Generates TeX or PDFCreator — A GPL/AF

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External links

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Adobe software

- Acrobat, for creating PDFs
- Adobe Reader, for viewing them
- <u>Create Adobe PDF Online</u> Online service for creating PDF files from many different document types, including Microsoft Word
- Online conversion tools for Adobe PDF documents The official Adobe online tool for converting from PDF to Text or HTML; also accepts emailed documents

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Format information

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Other Wikipedia articles about tools, utilities and products related to this article

- <u>Ghostscript</u> Displays PDF files, converts to and from PS.
- iText
- OpenOffice.org Can transform many types of documents into PDF documents.

Windows.

• Panda library

PdfTeX — Generates TeX or

PDFCreator — A GPL/AF

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Format information

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