pdfTeX in a Workflow

Ed Cashin

TUG2000
August 2000
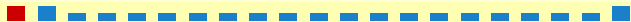
Contents

Why PDF?

portable
quality

portable

- Some like Word; some like WordPerfect.

- Most have Acrobat Reader . . .

- Others can get it for free.

- Ideally, PDF documents will look the same everywhere.

quality

- Looks great: scalable graphics and fonts print well and are attractive on screen.

- The medium provides sufficient accuracy for "dense" formats, e.g., business forms.

Why PDF?
Centralization
The Problem
The Solution
The Glue
The Process
Templates
Examples
Tips

EMPLOYEE PERSONNEL REPORT

PAY TYPE: M

THE UNIVERSITY OF GEORGIA

DOCUMENT NO.	PAGE	DATE	FY	DEPARTMENT PHONE	COLLEGE OR DIVISION
206 14 03	1	06 28 99	00	706 542 4525	College of Education

DEPARTMENT/PROJECT	PRI DEPT	HIGHEST DEGREE	INSTITUTION		YEAR
Boundary Studies	245	MS	Purdue		1999

UGA EMPLOYMENT HISTORY: ☑(C) CURRENT ☑(P) PREVIOUS DATE: 12 12 89

SOC. SEC. NUM	LAST NAME	FIRST NAME/INITIAL	MIDDLE INITIAL/NAME	SUFFIX
232 32 3232	Lachowskii	Ed	P.	Jr.

☑(1) REGULAR ☑(3) TEMPORARY UGA % TIME: 101 003 ACTION MO DA YR: 12 31 69
☑(2) UGA STUDENT ☑(4) NR-ALIEN

STREET OR RTE. NO. (LINE 1)	NON-WORK PHONE	BIRTH DATE	SPOUSE'S NAME	CHAIR
227 Park Ln.	706 369 4031	12 12 70	Rita Haywood	C

☑(E) EXEMPT ☑(N) NON-EXEMPT ☑(T) TIPPED

STREET OR RTE. NO. (LINE 2)	UNIV. PHONE	CITIZEN OF	I-9	VISA	COUNTY
Apt. 403	542 3892	USA	N	N	40

☑(F) FEMALE ☑(M) MARRIED ☑(Y) FACULTY-RANK
☑(1) WHITE ☑(3) ORIENTAL/ASIAN ☑(5) HISPANIC
☑(2) BLACK ☑(4) AMERICAN INDIAN ☑(9) Icelandic
☑(M) MALE ☑(S) SINGLE ☑(N) NON-FAC

CITY	STATE	ZIP + 4	UNIV. BUILDING NAME	BLDG. NO./FLOOR/ROOM
Rogersville	MY	30403-0403	Connor Hall	1324 4 403

FOR PAYROLL DEPT USE ONLY

FED EXM	STATE EXM	OASDI ___	RETIRE ___	GDCP ___	COUNTY MONEY (PER PAY PERIOD) ___
		HI ___	EIC ___		

COOP. EXT. EMPLOYEES ONLY PAYROLL PAYMENT DISTRIBUTION
UGA SALARY ___ ☑(1) SEND TO DEPT (DIST CODE) 432
COUNTY MONEY ___ ☐(2) DIRECT DEPOSIT (SEND PR 105 TO PAYROLL)
TOTAL ___ ☑(3) PICK UP AT PAYROLL WINDOW

TRX	HOME DEPT	SHORT TITLE	POSN NO.	APPT. BEGIN MO DA YR HR	APPT. END MO DA YR HR	JOBCLASS CODE	POSITION TITLE	POS % TIME	CN	FULL TIME ANNUAL SALARY	SC	SUPPLEMENT AMOUNT
	001	ONE	221	12 31 71 15	12 31 71 13	jc1	Random Number Generator	0 00001	1A	100,000	1B	1000
	002	TWO	222	12 31 72 13	12 31 72 13	jc2	Nostalgia Negotiator	0 00002	2A	200,000	2B	2000
	003	THREE	223	12 31 73 13	12 31 73 13	jc3	Frequency Modulator	0 00003	3A	300,000	3B	3000

PAYROLL AUTHORIZATION

TRX	DEPT/SHORT TITLE/POSN	ACCOUNT	FISCAL YEAR EFT	BUDGET
ad1	STTL1 AP1	AA1	0 00001	10000
ad2	STTL2 AP2	AA2	0 00002	20000
ad3	STTL3 AP3	AA3	0 00003	30000
ad4	STTL4 AP4	AA4	0 00004	40000
ad5	STTL5 AP5	AA5	0 00005	50000
ad6	STTL6 AP6	AA6	0 00006	60000
		TOTALS		

AMT PER PAY PERIOD OR HOURLY RATE

	MO DA YR HR	MO DA YR HR	MO DA YR HR	MO DA YR HR	MO DA YR HR
FROM	11 11 11 11	22 22 22 22	33 33 33 33	44 44 44 44	55 55 55 55
THRU	11 11 11 11	22 22 22 22	33 33 33 33	44 44 44 44	55 55 55 55
	1 01	1 02	1 03	1 04	1 05
	2 01	2 02	2 03	2 04	2 05
	3 01	3 02	3 03	3 04	3 05
	4 01	4 02	4 03	4 04	4 05
	5 01	5 02	5 03	5 04	5 05
	6 01	6 02	6 03	6 04	6 05

☐ (A) NEW UGA EMPLOYEE
☑ (B) LATERAL TRANSFER
☑ (C) PROMOTION
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☑ (P) TERMINATION - REASON Missing often.
☑ (Q) OTHER - (SPECIFY) Missing often enough.

REMARKS I remember when I first came to Athens--at least I think it was the first time. It was a game weekend, and we
(ATTACH ADDITIONAL REMARKS & SUPPORTING DOCUMENTS IF NEEDED)

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Figure 1.1 complex form

Centralization

data

services

data

With centralized data, advantages include:

- Easier collaboration

- Multi-point access via the web

- Data security through server backups

services

With centralized services . . .

- Functionality is not limited by the software on the end user's machine

- Complexity is hidden from the user

The Problem

- No PDF on the fly
  Most of the time, users cannot get PDF documents that are generated from centralized, on-server data.

- GUI
  Most PDF software is GUI-based and oriented toward interactive use.

- Server environment must be batch-oriented.

- Users often dislike learning new things.

- Long waits are confusing to users.

- Quicker service leads to greater acceptance.
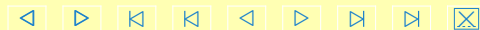
The Solution

- While pdfTeX can be used interactively, it is also well behaved in the batch processing environment of a server.

- The full power of TeX and friends is available for structured documents.

- The full power of PDF graphics is available with METAPOST.

- pdfTeX is very fast because Knuth was conservative with computer resources.

    - users are happy

    - server is happy

The Glue

To make it work, we must glue things together.

One way is to use perl to glue the web server to TEX and friends.

The Process

graphics

Overview:

- User comes to the web site

- User clicks something, and web server invokes perl

- Perl invokes pdfTeX

- Perl serves PDF document to user and cleans up
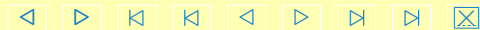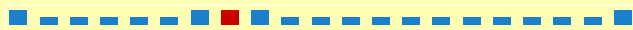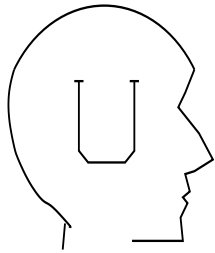
Figure 6.1 the user

Figure 6.2 the user interface
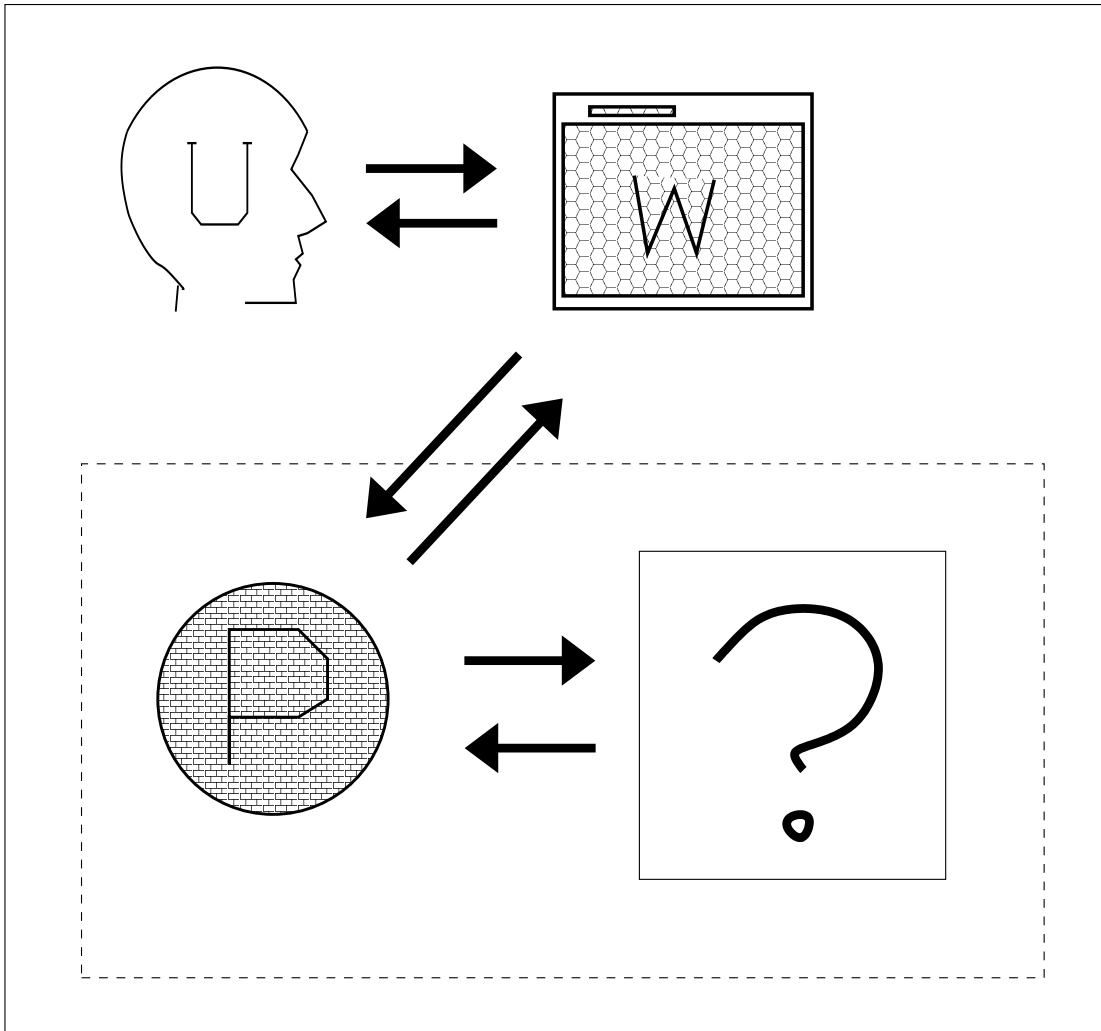
Figure 6.3 behind the browser
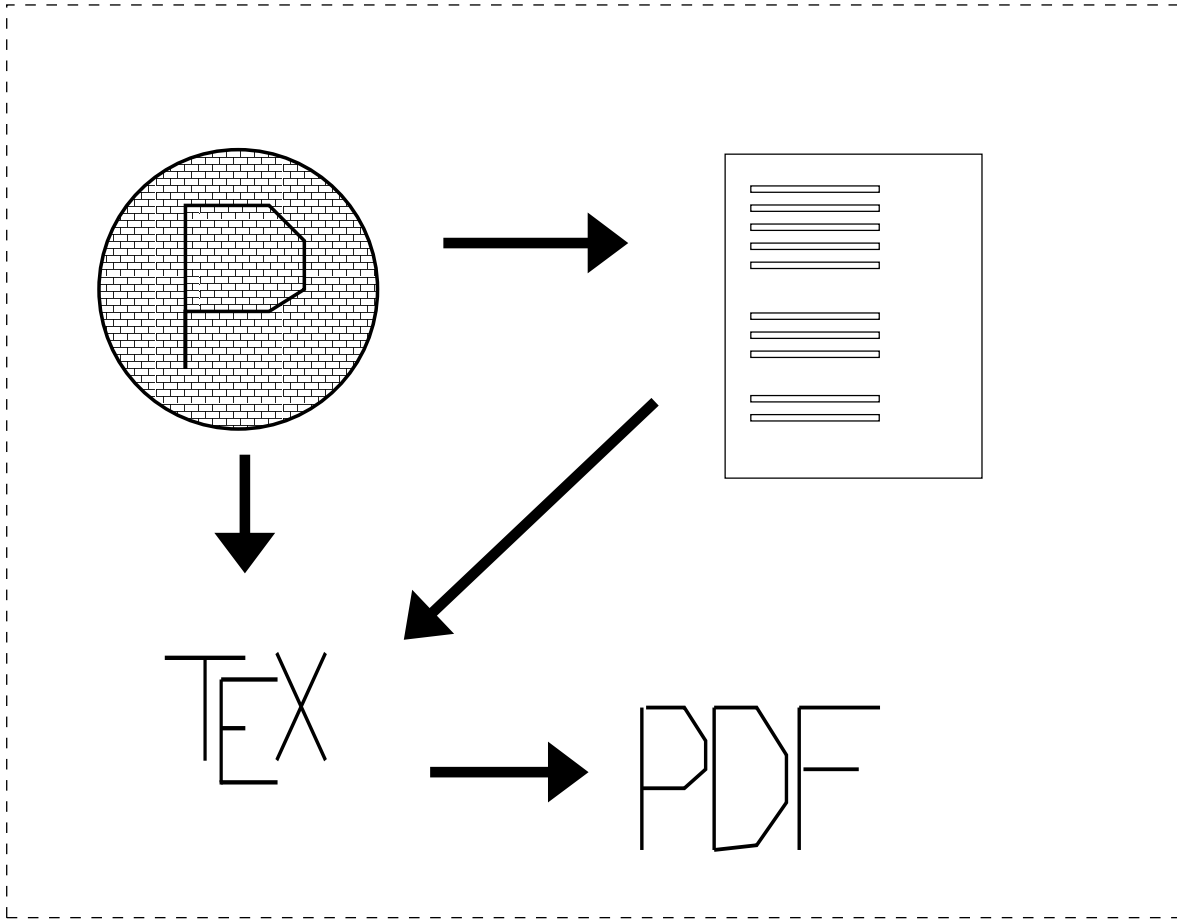
Figure 6.4 perl makes TeX source

Figure 6.5   perl calls pdfTEX

Figure 6.6 pdfTEX generates PDF

graphics

What about graphics?

- The old way: perl invokes METAPOST

- The new way: TEX invokes METAPOST *itself*
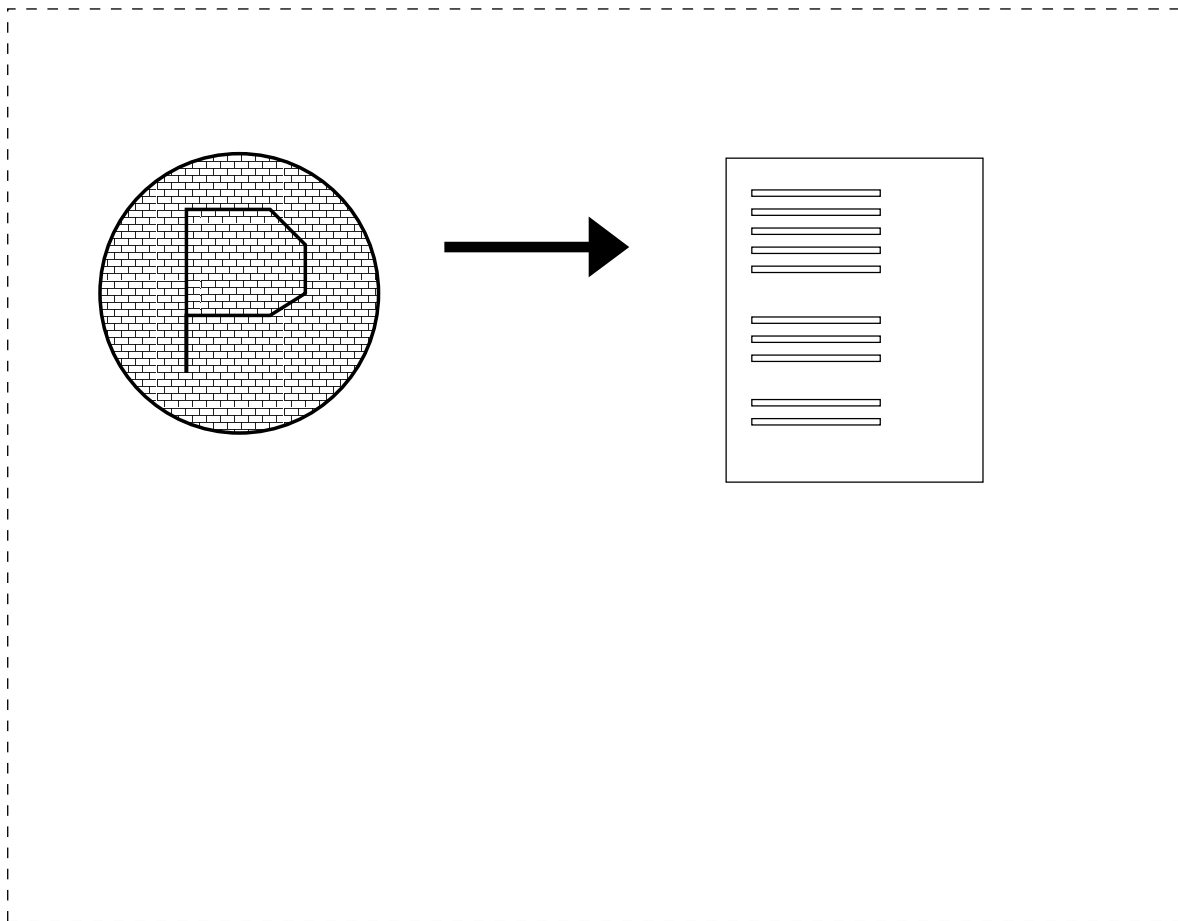
Figure 6.7 perl creates MP source

Figure 6.8   perl invokes METAPOST
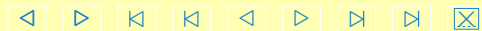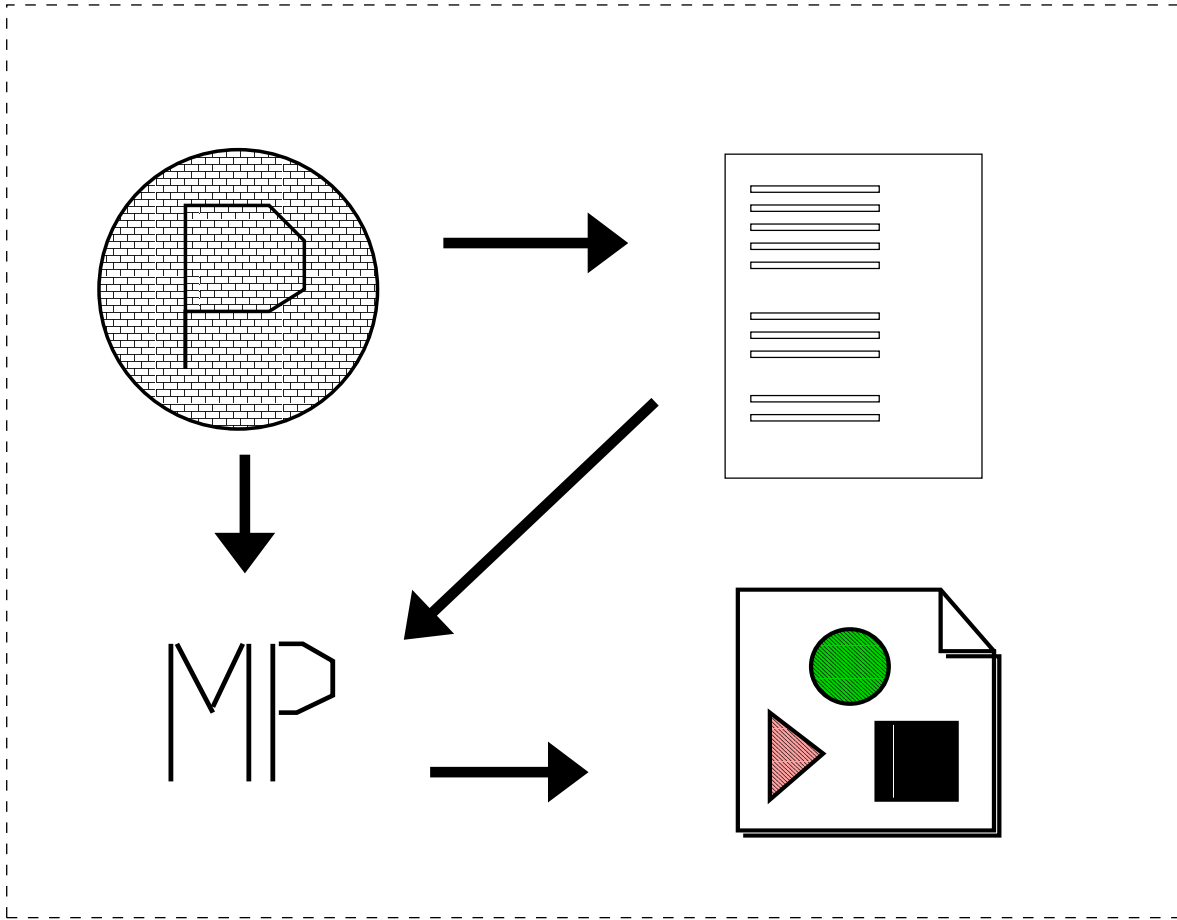
Figure 6.9 METAPOST produces graphic
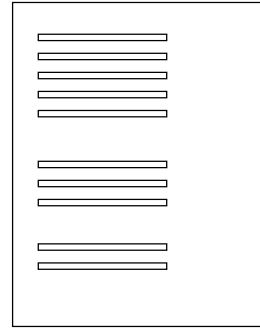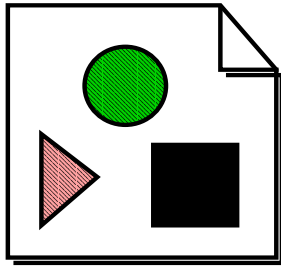
Figure 6.10 MP graphic and TEX source

Figure 6.11 TeX puts them together . . .

Figure 6.12 . . . to make PDF

Templates

example template

In creating source code for TEX and METAPOST, we can do text substitution on templates.
Templates provide a simple and easy to maintain means for code generation.

example template

```
\starttext
Dear Dr. X-@professor@-X,

You have won X-@dollaramount@-X dollars.

Sincerely,

Joe

\stoptext
```

Examples

online letter

business forms

lab schedules

online letter

An early use of pdfTEX as an engine for producing PDF documents for web users was a letter.

- User fills out HTML form that looks like the letter

- The data the user just supplied is stored in a database

- The user gets a PDF version of the letter, ready to print.
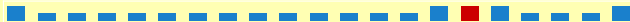
business forms

The University of Georgia's business office is notoriously picky when it comes to the forms that it will accept. If the form is not exactly the way they want it, they will not accept the form.

With pdfTeX and METAPOST working behind the scenes, we are able to produce extremely accurate reproductions of the Business Office's originals.

The staff use a web interface to enter data, retrieve data, and generate documents.

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206 14 03	1	06 28 99	00	706 542 4525	College of Education

PAY TYPE: M

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227 Park Ln.	706 369 4031	12 12 70	Rita Haywood	C

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- ☑ (C) CURRENT
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- DATE: 12 12 89

UGA % TIME 101 003 — ACTION MO DA YR 12 31 69

- ☑ (1) REGULAR   ☑ (3) TEMPORARY
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FOR PAYROLL DEPT USE ONLY

FED EXM	STATE EXM			
		OASDI ___	RETIRE ___	GDCP ___
		HI ___	EIC ___	

COUNTY MONEY (PER PAY PERIOD)

COOP. EXT. EMPLOYEES ONLY
- UGA SALARY ___
- COUNTY MONEY ___
- TOTAL ___

PAYROLL PAYMENT DISTRIBUTION
- ☑ (1) SEND TO DEPT (DIST CODE) 432
- ☑ (2) DIRECT DEPOSIT (SEND PR 105 TO PAYROLL)
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TRX	HOME DEPT	SHORT TITLE	POSN NO.	APPT. BEGIN MO DA YR HR	APPT. END MO DA YR HR	JOBCLASS CODE	POSITION TITLE	POS % TIME	C N	FULL TIME ANNUAL SALARY	S C	SUPPLEMENT AMOUNT
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ad1	STTL1 AP1	AA1		0 00001	10000
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ad3	STTL3 AP3	AA3		0 00003	30000
ad4	STTL4 AP4	AA4		0 00004	40000
ad5	STTL5 AP5	AA5		0 00005	50000
ad6	STTL6 AP6	AA6		0 00006	60000
			TOTALS		

AM'T PER PAY PERIOD OR HOURLY RATE

FROM	11 11 11 1.1	22 22 22 2.2	33 33 33 33	44 44 44 44	55 55 55 55
THRU	11 11 11 1.1	22 22 22 2.2	33 33 33 33	44 44 44 44	55 55 55 55
	1 01	1 02	1 03	1 04	1 05
	2 01	2 02	2 03	2 04	2 05
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THE UNIVERSITY OF GEORGIA

Figure 8.1 Employee Personnel Report

BUDGET AMENDMENT

DOCUMENT NO.	PAGE	DATE	FY	DEPARTMENT/PROJECT
206 14 03	1	06 28 99	99	Boundary Studies

SOC. SEC. NUM.	LAST NAME	FIRST NAME/INITIAL	MIDDLE INITIAL/NAME	SUF
232 32 3232	Lachowskii	Ed	P.	Jr.

THE UNIVERSITY OF GEORGIA

BUDGET POSITION

TRX	HOME DEPT	SHORT TITLE	POSN NO.	APPT. BEGIN MO DA YR HR	APPT. END MO DA YR HR	JOBCLASS CODE	POSITION TITLE	POS % TIME	C N	FULL TIME ANNUAL SALARY	S C	SUPPLEMENT AMOUNT
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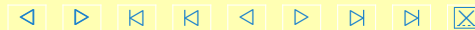### BUDGET AMENDMENT (PERSONAL AND NON-PERSONAL SERVICES)

TRX	DEPT/SHORT TITLE/POSN	ACCOUNT	OBJECT	DESCRIPTION	CURRENT EFT	CURRENT BUDGET	CHANGE EFT	±	CHANGE AMOUNT	±	REVISED EFT	REVISED BUDGET
bad1	BAS1	BAP1 BAA1	bae1	bac1	1 00001	1000	18 00018	+	18000	+	19 00019	19000
bad2	BAS2	BAP2 BAA2	bae2	bac2	2 00002	2000	17 00017	+	17000	+	19 00019	19000
bad3	BAS3	BAP3 BAA3	bae3	bac3	3 00003	3000	16 00016	+	16000	+	19 00019	19000
bad4	BAS4	BAP4 BAA4	bae4	bac4	4 00004	4000	15 00015	+	15000	+	19 00019	19000
bad5	BAS5	BAP5 BAA5	bae5	bac5	5 00005	5000	14 00014	+	14000	+	19 00019	19000
bad6	BAS6	BAP6 BAA6	bae6	bac6	6 00006	6000	13 00013	+	13000	+	19 00019	19000
bad7	BAS7	BAP7 BAA7	bae7	bac7	7 00007	7000	12 00012	+	12000	+	19 00019	19000
bad8	BAS8	BAP8 BAA8	bae8	bac8	8 00008	8000	11 00011	+	11000	+	19 00019	19000
bad9	BAS9	BAP9 BAA9	bae9	bac9	9 00009	9000	10 00010	+	10000	+	19 00019	19000
bad10	BAS10	BAP10 BAA10	bae10	bac10	10 00010	10000	9 00009	+	9000	+	19 00019	19000
bad11	BAS11	BAP11 BAA11	bae11	bac11	11 00011	11000	8 00008	+	8000	+	19 00019	19000
bad12	BAS12	BAP12 BAA12	bae12	bac12	12 00012	12000	7 00007	+	7000	+	19 00019	19000
bad13	BAS13	BAP13 BAA13	bae13	bac13	13 00013	13000	6 00006	+	6000	+	19 00019	19000
bad14	BAS14	BAP14 BAA14	bae14	bac14	14 00014	14000	5 00005	+	5000	+	19 00019	19000
bad15	BAS15	BAP15 BAA15	bae15	bac15	15 00015	15000	4 00004	+	4000	+	19 00019	19000
bad16	BAS16	BAP16 BAA16	bae16	bac16	16 00016	16000	3 00003	+	3000	+	19 00019	19000
bad17	BAS17	BAP17 BAA17	bae17	bac17	17 00017	17000	2 00002	+	2000	+	19 00019	19000
bad18	BAS18	BAP18 BAA18	bae18	bac18	18 00018	18000	1 00001	+	1000	+	19 00019	19000
				TOTALS	171 00171	171000	171 00171	+	171000	+	342 00342	342000

FUNDING SOURCE (DEPARTMENTAL INCOME OR CONTINGENCY)

TRX	ACCOUNT	OBJECT	FUNDING SOURCE	CHANGE AMOUNT	±
	001A	001	001	001	+
	002A	002	002	002	−
	003A	003	003	003	+
	004A	004	004	004	−
	005A	005	005	005	+
	007A	007	007	007	−
	008A	008	008	008	+
	009A	009	009	009	−
				5	−

REMARKS/REFERENCE

The GNU Manifesto which appears below was written by Richard Stallman at the beginning of the GNU project, to ask for participation and support. For the first few years, it was updated in minor ways to account for developments, but now it seems best to leave it unchanged as most people have seen it.

Since that time, we have learned about certain common misunderstandings that different wording could help avoid. Footnotes added in 1993 help

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APPROVAL	DATE	UNIT / PROJECT DIRECTOR	DATE	DEAN / DIRECTOR	DATE	BUDGET REVIEW	DATE	BUDGET OFFICE	DATE

Figure 8.2   Budget Amendment

STUDENT EMPLOYEE PERSONNEL REPORT

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SEC. QUESTIONNAIRE

PAY TYPE: **A**

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MO ACTION DA YR: 12 :31:69

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FED EXM	STATE EXM

FICA ___ TEACH RET ___ FED RET ___   COUNTY MONEY (PER PAY PERIOD)
EIC ___ MEDICARE ___

COOP. EXT. EMPLOYEES ONLY
UGA SALARY ___
COUNTY MONEY ___
TOTAL ___

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☑ (1) SEND TO DEPT (DIST CODE) **432**
☑ (2) DIRECT DEPOSIT (SEND PR 105 TO PAYROLL)
☑ (3) PICK UP AT PAYROLL WINDOW

JOB CLASS CODE
☑ 22005 (UNIVERSITY SYSTEM)
☑ 22006 (WORK STUDY)

ACCOUNT NUMBER

FOOBAR

☑ NEW APPOINTMENT $ 5.99 HOURLY RATE   ☑ TERMINATION - REASON   **excessive presumption**
☑ CHANGE NAME FROM   **Grendel Holdernath**   TO   **Rasputin Baldrich**
☑ CHANGE SSN FROM   123456789   TO   987654321
☑ TRANSFER FROM DEPT   **Secretive Musings**   TO   **Economic Music**
☑ CHANGE HOURLY RATE FROM   5.98   TO   5.99
☑ CHANGE % TIME EMPLOYED FROM   5   TO   6

FOR WORK STUDY PROGRAMS ONLY

DEPARTMENT	LIASON	TELEPHONE
Economic Music	Dr. Lee Ason	706 227-8793

LOCATION	SUPERVISOR	TELEPHONE
Utah	Dr. Sue Pervisor	817 338-9804

MAXIMUM AMOUNT TO EARN QUARTERLY	FALL	WINTER	SPRING	SUMMER
	100	101	102	103

QUARTERLY WORK DATES	BEGIN			
	9 June	10 June	11 June	12 June
END	13 June	14 June	15 June	16 June

REMARKS **The GNU Manifesto which appears below was written by Richard Stallman.**

DEPARTMENT HEAD ___ DATE ___   DEAN/DIRECTOR ___ DATE ___

Figure 8.3 Student Personnel Form

UNIVERSITY OF GEORGIA
SUMMER SCHOOL VOUCHER

ACADEMIC
14

Check one
- [ ] May-mester (May 16-June 7, 2000)
- [ ] Regular-Through Session (June 9-August 8, 2000)
- [ ] Short Session I only (June 9-July 10, 2000)
- [ ] Short Session II only (July 12-August 10, 2000)

DEPARTMENT

ACCOUNT NUMBER

SS FAL A

ACCOUNT NAME

PAGE NO _____ OF _____ PAGES

POSITION

SOCIAL SECURITY NUMBER	NAME (last name, first name, MI)	EMPLOYEE CLASSIFICATION			COURSE NUMBER	COURSE CREDIT HOURS	NUMBER OF STUDENTS	PRECEDING YEAR'S ACADEMIC SALARY	PERCENT OF ACADEMIC SALARY	TERM SALARY	SICK LEAVE
		REG PREC YEAR *	(V) or (N) (Note 1)	GRAD ASST. TYPE			(Note 2)	(Note 3)	(Note 4)		

(Note 5)

EMPLOYEE COUNT _____ TERM SALARY TOTAL _____ SICK LEAVE TOTAL _____

BATCH NO

NOTES:
1. COMPLETE AND ATTACH A UNIVERSITY OF GEORGIA MONTHLY PERSONNEL REPORT.
2. ENTER ESTIMATE OF NUMBER OF STUDENTS WHEN COMPLETING THIS FORM PRIOR TO REGISTRATION.
3. SHOW EQUIVALENT PRECEDING YEAR'S ACADEMIC SALARY FOR VISITORS OR NEW FACULTY AND INDICATE WITH AN "E" BESIDE THE AMOUNT.
4. PERCENT OF ACADEMIC SALARY SHOULD BE EXPRESSED WITH THREE DECIMAL PLACES (10.000 for 10%).
5. ACCOUNT TOTALS SHOULD BE PLACED ON FIRST PAGE OF VOUCHER.

DEPARTMENT HEAD   DATE

DEPARTMENT DIRECTOR   DATE

Jan, 2000
http://www.busfin.uga.edu/forms/

Figure 8.4 Summer Employment Voucher

lab schedules

Our department manages many computer labs. A coworker made a web interface for managing the labs. His code uses a perl module I wrote that uses a ConTEXt backend to create lab schedules that we post.

The earlier solution used substitution on raw postscript. The postscript files were huge, and the results were flakey. Now everything just works!

ConTEXt was chosen to manage the interdependent text and graphics.

Why PDF?
Centralization
The Problem
The Solution
The Glue
The Process
Templates
Examples
Tips

618 ADERHOLD

Time	8/21 Monday	8/22 Tuesday	8/23 Wednesday	8/24 Thursday	8/25 Friday	8/26 Saturday	8/27 Sunday
8:00 - 8:15 am		EPSY 2020H		EPSY 2020H		CLOSED	CLOSED
8:15 - 8:30 am		EPSY 2020H		EPSY 2020H		CLOSED	CLOSED
8:30 - 8:45 am		EPSY 2020H		EPSY 2020H		CLOSED	CLOSED
8:45 - 9:00 am		EPSY 2020H		EPSY 2020H		CLOSED	CLOSED
9:00 - 9:15 am		EPSY 2020H		EPSY 2020H			CLOSED
9:15 - 9:30 am							CLOSED
9:30 - 9:45 am							CLOSED
9:45 - 10:00 am							CLOSED
10:00 - 10:15 am			ERSH 8610				CLOSED
10:15 - 10:30 am			ERSH 8610				CLOSED
10:30 - 10:45 am			ERSH 8610				CLOSED
10:45 - 11:00 am			ERSH 8610				CLOSED
11:00 - 11:15 am			ERSH 8610	ERSH 6300			CLOSED
11:15 - 11:30 am			ERSH 8610	ERSH 6300			CLOSED
11:30 - 11:45 am			ERSH 8610	ERSH 6300			CLOSED
11:45 - noon			ERSH 8610	ERSH 6300			CLOSED
noon - 12:15 pm			ERSH 8610	ERSH 6300			CLOSED
12:15 - 12:30 pm			ERSH 8610				CLOSED
12:30 - 12:45 pm		LPSL Hay	ERSH 8610				CLOSED
12:45 - 1:00 pm		LPSL Hay	ERSH 8610				CLOSED
1:00 - 1:15 pm		LPSL Hay					CLOSED
1:15 - 1:30 pm		LPSL Hay					CLOSED
1:30 - 1:45 pm		LPSL Hay					CLOSED
1:45 - 2:00 pm		LPSL Hay					CLOSED
2:00 - 2:15 pm		LPSL Hay				CLOSED	CLOSED
2:15 - 2:30 pm		LPSL Hay				CLOSED	CLOSED
2:30 - 2:45 pm	ERSH 8750	LPSL Hay	ERSH 8750			CLOSED	CLOSED
2:45 - 3:00 pm	ERSH 8750	LPSL Hay	ERSH 8750			CLOSED	CLOSED
3:00 - 3:15 pm	ERSH 8750	LPSL Hay	ERSH 8750			CLOSED	CLOSED
3:15 - 3:30 pm	ERSH 8750	LPSL Hay	ERSH 8750			CLOSED	CLOSED
3:30 - 3:45 pm	ERSH 8750		ERSH 8750	ERSH 6200		CLOSED	CLOSED
3:45 - 4:00 pm				ERSH 6200		CLOSED	CLOSED
4:00 - 4:15 pm				ERSH 6200		CLOSED	CLOSED
4:15 - 4:30 pm				ERSH 6200		CLOSED	CLOSED
4:30 - 4:45 pm						CLOSED	CLOSED
4:45 - 5:00 pm		ERSH 9800		ERSH 9800		CLOSED	CLOSED
5:00 - 5:15 pm		ERSH 9800		ERSH 9800		CLOSED	CLOSED
5:15 - 5:30 pm		ERSH 9800		ERSH 9800		CLOSED	CLOSED
5:30 - 5:45 pm		ERSH 9800		ERSH 9800		CLOSED	CLOSED
5:45 - 6:00 pm		ERSH 9800		ERSH 9800		CLOSED	CLOSED
6:00 - 6:15 pm						CLOSED	CLOSED
6:15 - 6:30 pm						CLOSED	CLOSED
6:30 - 6:45 pm		LPSL Hay				CLOSED	CLOSED
6:45 - 7:00 pm		LPSL Hay				CLOSED	CLOSED
7:00 - 7:15 pm		LPSL Hay				CLOSED	CLOSED
7:15 - 7:30 pm		LPSL Hay				CLOSED	CLOSED
7:30 - 7:45 pm		LPSL Hay				CLOSED	CLOSED
7:45 - 8:00 pm		LPSL Hay				CLOSED	CLOSED
8:00 - 8:15 pm		LPSL Hay				CLOSED	CLOSED
8:15 - 8:30 pm		LPSL Hay				CLOSED	CLOSED
8:30 - 8:45 pm		LPSL Hay				CLOSED	CLOSED
8:45 - 9:00 pm		LPSL Hay				CLOSED	CLOSED
9:00 - 9:15 pm	CLOSED	LPSL Hay	CLOSED	CLOSED	CLOSED	CLOSED	CLOSED
9:15 - 9:30 pm	CLOSED	LPSL Hay	CLOSED	CLOSED	CLOSED	CLOSED	CLOSED
9:30 - 9:45 pm	CLOSED	CLOSED	CLOSED	CLOSED	CLOSED	CLOSED	CLOSED
9:45 - 10:00 pm	CLOSED	CLOSED	CLOSED	CLOSED	CLOSED	CLOSED	CLOSED

This Computer Lab is Maintained by OIT

For assistance with the College of Education's Computer Labs

★ Telephone the OIT Computer Help Desk at 542-HELP (542-4357).
★ Request assistance from the OIT Computer helpdesk Consultants in Room 218 Aderhold Hall.
★ Send email to help@coe.uga.edu.

For Questions about Lab Schedules

★ Send email to kleonard@coe.uga.edu
★ or call Kristi Leonard at 542-7180

Visit the Labs Website for More Information

http://www.coe.uga.edu/labs

Computers

Operating System

Printing
The computer in room 228 print to an HP4simx laster printer. This printer is located in rom232, and printed pages may be retrieved form the OIT desk staff. Each printed page costs 5 cents.

Period	Monday Wednesday Friday	Period	Tuesday Thursday
1	8:00 am-8:50 am	1	8:00 am-8:50 am
2	9:05 am-9:55 am	2	9:30 am-10:45 am
3	10:10 am-11:00 am	3	11:00 am-12:15 am
4	11:15 am-12:05 am	4	12:30 pm-1:45 pm
5	12:20 pm-1:10 pm	5	2:00 pm-3:15 pm
6	1:25 pm-2:15 pm	6	3:30 pm-4:45 pm
7	2:30 pm-3:20 pm	7	5:00 pm-6:15 pm
8	3:35 pm-4:25 pm	8	6:30 pm-7:45 pm
9	4:40 pm-5:30 pm	9	8:00 pm-9:15 pm
10	5:45 pm-6:35 pm	10	9:30 pm-10:45 pm
11	6:50 pm-7:40 pm		
12	7:55 pm-8:45 pm		
13	9:00 pm-9:50 pm		

Figure 8.5   computer lab schedules

Tips

- Redirect standard input for immediate failures . . .
  ```
  pdftex foo < /dev/null
  ```
  . . . instead of hanging browsers!

- Use strange markers in templates,
  e.g., `X-@foobar@-X` for "foobar".

- Do all work in a cleverly-named temporary directory.
  Use symlinks if available.

- Use plain format for documents with little structure.