


## A Full Page Grid

This gives you a full portrait page gray 10X layout grid. Grids like this one are the starting point for most projects.

## The Gonzo Grid

| gutility begin | \% turn on the gonzo utilities |
| :---: | :---: |
| nuisance begin | \% turn on the nuisance commands |
| printerror | \% turn on the printing error trapper |
| gonzo begin | \% turn on the gonzo justify program |
| 201510 setgrid | \% create a full page ten point grid |
| 5776 showgrid | \% and show the grid |
|  | \% the rest of your design goes in here. \% it will stay locked to the grid until \% a grestore. |
| showpage | \% actually prints the page |
| quit | \% clears the printer for the next printout |

## Drawing a Rectangular Box

## Drawing a Non-Rectangular Box

| gutility begin | \% turn on the gonzo utilities |
| :--- | :--- |
| nuisance begin | $\%$ turn on the nuisance commands |
| printerror | $\%$ turn on the printing error trapper |
| gonzo begin | $\%$ turn on the gonzo justify program |
| 201510 setgrid | $\%$ create a full page ten point grid |
| 5776 showgrid | $\%$ and show the grid |

\% the rest of your design goes in here. it will stay locked to \% the grid.
0.2 setlinewidth \% determines how wide a line is used

525 moveto $\quad \%$ defines the starting point
520 rlineto $\quad \%$ defines the first side
350 rlineto $\quad \%$ defines the second side
5-20 rlineto $\quad \%$ defines the third side
-450 rlineto $\quad \%$ defines the fourth side
stroke
/Helvetica-Bold findfont 6 scalefont setfont

| gutility begin | \% turn on the gonzo \% utilities |
| :---: | :---: |
| nuisance begin | \% turn on the nuisance <br> \% commands |
| printerror | \% turn on the printing \% error trapper |
| gonzo begin | \% turn on the gonzo <br> \% justify program |
| 201510 setgrid | \% create a full page ten |
| 5776 showgrid | \% and show the grid |

\% the rest of your design goes in here. it will stay locked to
\% the grid.
0.2 setlinewidth \% determines how wide a line is used

525 moveto $\quad \%$ defines the starting point
1020 lineto $\quad \%$ defines the first side
3520 lineto $\quad \%$ defines the second side
3510 lineto $\quad \%$ defines the third side
1010 lineto $\quad \%$ defines the fourth side
stroke $\quad \%$ draws the box
/Helvetica-Bold findfont [400600] makefont setfont
2313 (MY NAME) cc \%places some text in the box
\% center
showpage $\quad \%$ actually prints the page
quit $\quad \%$ clears the printer for the next printout

2813 (MY NAME) cc
$\%$ places some text in the box
$\%$ center
showpage
$\%$ actually prints the page
quit
\% clears the printer for the
\% next printout

## PostScript Operators

| begin | red book pg 370 |
| :--- | :--- |
| def | red book pg 397 |
| lineto | red book pg 449 |
| makefont | red book pg 452 |
| moveto | red book pg 456 |
| quit | red book pg 468 |
| rlineto | red book pg 482 |
| scalefont | red book pg 488 |
| setfont | red book pg 503 |
| setlinewidth | red book pg 508 |
| showpage | red book pg 520 |
| stroke | red book pg 528 |

## Gonzo Commands

| cl | callout left |
| :--- | :--- |
| cc | callout center |
| cr | callout right |



MY NAME
cf
gutility
gonzo
nuisance
printerror
setgrid
showfont
showgrid
callout fill
gutility dictionary gonzo dictionary nuisance dictionary returns error to host and prints page defines the xstart ystart points of each grid square prints the font prints the grid

## On Your Own

Gather magazines, newspapers, and/or flyers for examples of type faces, layout and graphics. Pick ones you would not usually read.

Begin to collect illustrations (line art or drawings) of your choice for curvetracing.

## EXACT FONT SPELLINGS

| EXACT FONT |  |
| :--- | :--- |
|  | SPELLINGS |
| Sans-Serif | Serif |
| AvantGarde-Book | Bookman-Light |
| AvantGarde-BookOblique | Bookman-Lightltalic |
| AvantGarde-Demi | Bookman-Demi |
| AvantGarde-DemiOblique | Bookman-Demiltalic |
|  |  |
| Helvetica | NewCenturySchlbk-Roman |
| Helvetica-Oblique | NewCenturySchlbk-Italic |
| Helvetica-Bold | NewCenturySchlbk-Bold |
| Helvetica-BoldOblique | NewCenturySchlbk-Boldltalic |
| Helvetica-Narrow | Palatino-Roman |
| Helvetica-Narrow-Oblique | Palatino-Italic |
| Helvetica-Narrow-Bold | Palatino-Bold |
| Helvetica-Narrow-BoldOblique | Palatino-Boldltalic |
|  | Times-Roman |
| Special Fonts | Times-Italic |
| Courier | Times-Bold |
| Courier-Oblique | Times-Boldltalic |
| Courier-Bold |  |
| Courier-BoldOblique |  |
| Symbol |  |
| ZapfChancery-Mediumltalic |  |
| ZapfDingbats |  |

## FONT PUBLISHER RESOURCES

| Adobe Systems | Image Club |
| :--- | :--- |
| 1585 Charleston Road | 729 24th Avenue SE |
| Mountain View, CA 94039 | Calgary, AB |
| (800) 833-6687 | CANADA T2G5K8 |
| Agfa Corporation | (800) 661-9410 |

Jonathan Macagba
PO Box 14013
Philadelphia, PA 19122
(215) 634-0634

## Monotype

53 W Jackson Blvd, \#504
Chicago, IL 60604
(800) MONOTYPE

## Phil's Fonts

2380 Chaplain Street NS
Washington, DC 20009
(800) 424-2977

Precision Type
595 Old Willets Path
Hauppauge, NY 11788
(800) 248-FONT

U-Design Type Foundry
270 Farmington Avenue
Hartford, CT 06105
(203) 278-3648

## FONT PUBLICATION RESOURCES

## Font \& Function

Adobe Systems
1585 Charleston Road
Mountain View, CA 94039
(800) 833-6687

## TypeWorld

One Technology Park Drive
Westford, MA 01886
(508) 392-2157

U\&Ic
2 Dag Hammarskjold Plaza
New York, NY 10017
(212) 371-0699

Yodar Kritch
123 Main Street
Thatcher, AZ 85552
(602) 428-4073


## A Personal or Business Letterhead

Simple and clean business or personal stationary letterhead. The first is left justified with a simple bar, the second has a centered name and a fancier horizontal bar.

## The Left Justified Letterhead

gutility begin nuisance begin printerror gonzo begin
\% turn on the gonzo utilities \% turn on the nuisance commands \% turn on the printing error trapper \% turn on the gonzo justification
/showthegrid true def \% Do we want to see the layout grid? $\%$ true $=$ yes; false $=$ no

201510 setgrid $\%$ create a full page ten point grid
showthegrid
\{5776 showgrid\} if \% and maybe show the grid

| 1 setlinecap | $\%$ make lines have rounded ends |
| :--- | :--- |
| 0.3 setlinewidth | $\%$ make all lines 3 points thick |
| 169.5 mt 55 r | $\%$ draw a single horizontal line |

## The Center Justified Letterhead

gutility begin $\quad \%$ turn on the gonzo utilities nuisance begin $\quad \%$ turn on the nuisance commands printerror $\quad \%$ turn on the printing error trapper gonzo begin $\quad \%$ turn on the gonzo justification
/showthegrid false def\% Do we want to see the layout grid?
$\%$ true $=$ yes; false $=$ no
201510 setgrid $\%$ create a full page ten point grid
showthegrid
\{57 76 showgrid $\}$ if $\%$ and maybe show the grid

| bestgray | \% pick a fine secret gray |
| :--- | :--- |
| 1 setlinecap | $\%$ make all lines have rounded ends |
| 169 mt 55 pr | $\%$ draw a horizontal line |
| $0.4500 .30 .9]$ $\%$ [linewidth gray linewidth gray] <br> superstroke $\%$ actually stroke it <br>   <br> /cstretch 0.02 def $\%$ stretch spaces between characters ( |  |

/cstretch 0.02 def $\%$ stretch spaces between characters /sstretch 0.1 def $\%$ stretch spaces between words slightly
/font1 /Bookman-LightItalic
0.9 gonzofont
\% define a normal font
/font2 /Bookman-DemiItalic
0.9 gonzofont
\% define a bold font
/yinc 1 def $\quad$ \% set the vertical line spacing
$28.574 \quad$ \% create a center justified address
(|2Yoderella Kritchette|1
123 Main Street
Thatcher, AZ 85552

| h |
| :--- | :--- |
| (602) 428-4073) cc |


| \% 20 copies | \% final number of copies to be made <br> \% remove "\%" for final printing |
| :--- | :--- |
| showpage | \% and show the page <br> quit | | \% finished! |
| :--- |

## Yoderella Kritchette

123 Main Street
Thatcher, AZ 85552
(602) 428-4073

## PostScript Notes

[ array ] generally numeric
( string ) whatever you want printed
\{ procedure \} user defined
\% comment line
boolean - ifelse - defined by true or false

## PostScript Operators

setlinecap red book pg 506

## Gonzo Commands

| h | does a half negative linefeed |
| :--- | :--- |
| mt | moveto |
| rl |  |
| l | rlineto |
| r | lineto left |
| u | lineto right |
| d | lineto up |
| pr | lineto down |
| pl | path right |
| pu | path left |
| pd | path up |
| path down |  |

## Font Array Notations

/font0 /Helvetica [1.100 1.1000 ] gonzofont
The first number in the font array is the width (x).

The second number is the rotation.
The third number is the slant.
The fourth number is the height (y).
The fifth number moves to the rightorleft . (xshift)
The sixth number is the superscript or subscript(yshift)


# project 

## Step-and-repeat Business Cards

This uses step-and-repeat to print twelve business cards on a single sheet of cover, parchment, or index stock.

## The 12-up Business Card

gutility begin nuisance begin printerror gonzo begin
\% turn on the gonzo utilities
\% turn on the nuisance commands
$\%$ turn on the printing error trapper
\% turn on the gonzo justification
\% Do we want to see the layout grid?
/showthegrid true def $\%$ true = yes; false = no
/repeatproc \{
0010 setgrid $\%$ get on the usual
\% maybe show the CARD-SIZED grid showthegrid $\{2514$ showgrid $\}$ if
/yinc 1 def $\quad \%$ set the vertical line spacing
/cstretch 0.03 def $\%$ stretch spaces between characters
/sstretch 0.1 def
\% stretch spaces
/font1 /Bookman-LightItalic 0.9 gonzofont \% define a normal font
/font2 /Bookman-DemiItalic 0.9 gonzofont
\% define a bold font
1 setlinecap bestgray
15 mt 23 pr superstroke $\quad \%$ and show it two-tone

18 (|2Yodar Kritch|1
123 Main Street
Thatcher, AZ 85552) cl
13 (|1(602) 428-4073) cl\} def
(buscard)
stepandrepeat \% no showpage with stepandrepeat quit

## CardsNow Business Card

gutility begin nuisance begin printerror gonzo begin
\% turn on the gonzo utilities $\%$ turn on the nuisance commands $\%$ turn on the printing error trapper \% turn on the gonzo justification
\% between words
[0.45 000.30 .9 ] \% [linewidth gray linewidth gray]
usi
\% round path ends
\% nice looking gray
\% draw a line to the right
$\%$ [linewidth gray linewidth gray]
$\%$ and show it two-tone
ASSIGNMENT 3:
Design a personal
or business card using step-and-repeat
\% cards now form
stepnrptparams begin
/cardsnow [25252143.5503420 false false] def end
\% Do we want to see the layout grid?
/showthegrid true def $\%$ true = yes; false = no
/repeatproc \{
0010 setgrid $\%$ get on the usual
\% maybe show the CARD-SIZED grid showthegrid $\{2514$ showgrid $\}$ if
/yinc 1 def $\quad$ \% set the vertical line spacing /cstretch 0.03 def $\%$ stretch spaces between characters /sstretch 0.1 def $\%$ stretch spaces between words
/font 1 /Bookman-LightItalic 0.9 gonzofont
\% define a normal font
/font2 /Bookman-DemiItalic 0.9 gonzofont \% define a bold font

1 setlinecap
\% round path ends
bestgray
\% nice looking gray
15 mt 23 pr
\% draw a line to the right
$\left[\begin{array}{llll}0.45 & 0 & 0.3 & 0.9\end{array}\right]$
\% [linewidth gray linewidth gray]
superstroke $\quad \%$ and show it two-tone
1 8(|2Yodar Kritch|1
123 Main Street
Thatcher, AZ 85552) cl
$13(\mid 1(602) 428-4073) \mathrm{cl}\} \operatorname{def}$
(cardsnow) stepandrepeat
quit

## Rotary Card

This shows how to define your own step and repeat project.
gutility begin nuisance begin printerror gonzo begin
\% turn on the gonzo utilities
$\%$ turn on the nuisance commands
\% turn on the printing error trapper \% turn on the gonzo justification


## Gonzo 17 STEPANDREPEAT

\% Horizontal and vertical are defined AFTER selecting portrait or landscape. Parameters (in points or true/false) follow...
\% \#horizrpts - times proc repeats in horizontal direction
\% \#vertrpts - times proc repeats in vertical direction
\% hspacing - horizontal proc repeat spacing
\% vspacing - vertical proc repeat spacing
\% hstart - horizontal offset of first proc
\% vstart - vertical offset of first proc
\% ticklen - length of cropping ticks when and if used
\% useticks? - show the ticks true/false boolean
\% landscape - landscape orientation true/false boolean
/stepnrptparams 40 dict def
stepnrptparams begin

|  | ef | \% 45 tickets |
| :---: | :---: | :---: |
| bybumper | [210270 72403020 true false] def | \% 20 stickers |
| badgeaminit | t [2 32202209060250 false false] de | def \% 6 badges |
| /bigbumpstick | k [1 37922050040 true true] def | \% 3 bumperstickers |
| /buscard | [3425614312 2020 true true] def | \% 12 buscards |
| /busenvelope | e [11685 305015020 true true] def | \% 1 envelope |
| /eightlabel | [24 4061980050 true false] def | \% 1/8 page |
| /fulllandpage | [110020 2050 false true] def | entire landscape page |
| /fullportpage | [110020 2050 false false] def | entire portrait page |
| /lilbumpstick | [15610 15002060 true false] def | \% 5 blumperstickers |
| /quadsplit | [2 23963060050 true true] def | \% 1/4 page |
| /readerserv | [12 25 25-15 1204500 false false] de | def \% 300 RS numabers |
| /rotary [2 4 | 288157167820 false false] def \% 8 | 8 rotary cards |
| /shiplabel | [14290 1801606540 true false] def | \% 4 custom labels |
| /sixlabel | [2 33062640050 true false] def | \% 1/6 page |
| /stdplabel | [111254 74185520 true false] def | \% 11 stock dp |
| /tenlabel [2 | [25 20514404550 true false] def | \% 1/10 page |
| /videospline | [11342460.3 80340 false false] def | $f$ \% 13 VHS splines |
| /3.5disklabel | [ 232162261006020 false false] def | \% 6 disk labels 3 |
| /5.25disklabel | el [17316110 275350 false false] def | \% 7 disk labels 5.25 |

end
\% /setrepeatparams is a working tool that extracts the selected repeat values from an entry in stepnrptparams.
/setrepeatparams \{cvn stepnrptparams exch get aload pop /landscape1 exch def /ticktrue exch def /ticklen exch def /vertstart exch def /horstart exch def /incvert exch def /inchoriz exch def /numvert exch def /numhoriz exch def\} def
\% /onetick optionally draws a single tick or crop mark, while /drawticks puts one at each corner of each form
/onetick \{ 0 ticklen 2 div rmoveto 0 ticklen neg rlineto ticklen 2 div neg dup neg rmoveto ticklen 0 rlineto 0 setlinewidth stroke\} def
/drawticks \{gsave ticktrue $\{00$ moveto onetick inchoriz 0 moveto onetick 0 incvert moveto onetick inchoriz incvert moveto onetick\} if grestore\}def
\% default variables used by stepnrpt
/srexitproc \{\} def \% default short exit - don't do it.
/numpages 1 def \% default number of sheets to print
/startnum 0 def $\quad \%$ initial ticket number
/runnum startnum def \% running pointer advances one per repeat
/repeatproc $\}$ def $\%$ artwork to get repeated default
/customdata false def \% autopaginate custom data?
\% /srfile gets used for custom entries. Each entry can be a string or a proc, but ONLY ONE ENTRY is allowed per repeat.
/srfile [(You) (forgot) (to) (define) (srfile!)] def \% default srfile
$\% / c a l c p a g e s ~ i s ~ a n ~ o p t i o n a l ~ r o u t i n e ~ t h a t ~ d e c i d e s ~ h o w ~ m a n y ~ p a g e s ~ a r e ~ n e e d e d ~ O N L Y ~ w h e n ~ y o u ~ a r e ~ u s i n g ~ a ~ c u s t o m ~ s r f i l e . ~$ \% This allows early exits when or if you run out of data.
/calcpages \{dup cvn stepnrptparams exch get dup 0 get exch 1 get mul cvi srfile length exch div ceiling cvi /numpages exch def\} def
\% This is the main stepandrepeat tool...
/stepandrepeat \{ save /srsnap exch def mark exch /quickexit false def customdata \{calcpages\} if setrepeatparams numpages \{gsave landscape1 \{-90 rotate -792 0 translate\} if horstart vertstart translate gsave numhoriz \{gsave numvert \{drawticks save/rptsave1 exch def repeatproc rptsave1 restore /runnum runnum 1 add def 0 incvert translate srexitproc\} repeat quickexit \{exit\} if grestore inchoriz 0 translate\} repeat quickexit \{exit\} if grestore showpage grestore\} repeat quickexit \{showpage\} if cleartomark srsnap restore\} def
\% To force an early exit when you run out of names or reach a given ticket number, test suitably. Then conditionally make \% /quickexit true and exit repeatproc.
\% Note that an ending showpage is NOT required and should NOT be used.

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| Yodar | $\boldsymbol{r}$ Kr | ritch |  |  |  |  |  |  |  |  |  |  |  |  | Yodar | r K | Krit | tch |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 123 M | Main | Street |  |  |  |  |  |  |  |  |  |  |  |  | 123 M | Main | in S | Street |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Thatch | her, | AZ 855 | 552 |  |  |  |  |  |  |  |  |  |  |  | Thatch | her | $r, A$ | A 85 | 5552 |  |  |  |  |  |  |  |  |  |  |  |  |
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| Yodar | $\boldsymbol{r}$ Kr | ritch |  |  |  |  |  |  |  |  |  |  |  |  | Yodar | r K | Krit | tch |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 123 M | Main | Street |  |  |  |  |  |  |  |  |  |  |  |  | 123 M | Main | in S | Street |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Thatch | her, | AZ 855 | 552 |  |  |  |  |  |  |  |  |  |  |  | Thatch | her | $r, A$ | A 85 | 5552 |  |  |  |  |  |  |  |  |  |  |  |  |
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| (602) | 428 | -4073 |  |  |  |  |  |  |  |  |  |  |  |  | (602) |  | 8-407 | 4073 |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Yodar | r Kr | ritch |  |  |  |  |  |  |  |  |  |  |  |  | Yodar | $\boldsymbol{r}$ | Krit | ch |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 123 M | Main | Street |  |  |  |  |  |  |  |  |  |  |  |  | 123 M | Main | in S | Street |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Thatch | cher, | , $A Z 855$ | 552 |  |  |  |  |  |  |  |  |  |  |  | Thatch | her | $r, A$ | A 85 | 5552 |  |  |  |  |  |  |  |  |  |  |  |  |
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| (602) | 428 | -4073 |  |  |  |  |  |  |  |  |  |  |  |  | (602) | 428 | 8-4 | 073 |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Yodar | r Kr | ritch |  |  |  |  |  |  |  |  |  |  |  |  | Yodar | r K | Krit | tch |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 123 M | Main | Street |  |  |  |  |  |  |  |  |  |  |  |  | 123 M | Main | in S | Street |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Thatch | cher, | , $4 Z 855$ | 552 |  |  |  |  |  |  |  |  |  |  |  | Thatch | her | $r, A$ | A 85 | 5552 |  |  |  |  |  |  |  |  |  |  |  |  |
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| (602) | 428 | -4073 |  |  |  |  |  |  |  |  |  |  |  |  | (602) | 428 | 8-40 | 073 |  |  |  |  |  |  |  |  |  |  |  |  |  |
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\% manual $\quad$ \% remove comment to manual
\% define a rotary card form
stepnrptparams begin
/rotary [2 4288157167820 false false] def end
\% Do we want to see the layout grid?
/showthegrid true def $\%$ true $=$ yes; false $=$ no
/repeatproc \{
0010 setgrid $\%$ get on the usual
\% maybe show the CARD-SIZED grid showthegrid $\{2815$ showgrid $\}$ if
/yinc 1 def $\quad \%$ set the vertical line spacing /cstretch 0.03 def $\%$ stretch spaces between characters /sstretch 0.1 def $\%$ stretch spaces between words
/font1 /Bookman-LightItalic 0.9 gonzofont \% define a normal font
/font2 /Bookman-DemiItalic 0.9 gonzofont \% define a bold font

| 1 setlinecap | \% round path ends |
| :--- | :--- |
| bestgray | $\%$ nice looking gray |
| 1.55 mt 25 pr | $\%$ draw a line to the right |
| $\left[\begin{array}{lll}0.45 & 0 & 0.3 \\ \text { superstroke } & 0.9\end{array}\right]$ | $\%$ [linewidth gray linewidth gray] |
| sund show it two-tone |  |

1.58 (|2Yodar Kritch|1

123 Main Street
Thatcher, AZ 85552) cl
1.53 (|1(602) 428-4073) cl\} def
(rotary) stepandrepeat
quit

## PostScript Operators

repeat red book pg 476

## Gonzo Commands

| manual | manual feeds stock from top of tray |
| :--- | :--- |
| repeatproc | actual material to be repeated |
| stepnrptparams | step and repeat dictionary |
| stepandrepeat | prints a step and repeat procedure <br> (replaces showpage) |

## On Your Own

Read: PS Reference Manual - Chapter 8: Operators, section 8.1
PS Tutorial - Chapter 4: Procedures \& Variables
a note from:
Yodar Kritch
a note from:
Yodar Kritch

## Two Personal Notes

Creates half size 2 -up personalized stationary or note paper using the stepandrepeat procs.

The Actual Program
gutility begin
nuisance begin
printerror
gonzo begin
/showthegrid true def
$\%$ define a new step and repeat proc for a notepad
stepnrptparams begin
/twonote [2 13950202010 false true] def end
\% define ONE notepad the way you want it
/repeatproc \{gsave 0010 setgrid
showthegrid \{35 57 showgrid \} if
/cstretch 0.02 def
$/$ sstretch 0.02 def
/font1/NewCenturySchlbk-BoldItalic 2.0 gonzofont
/font2 /NewCenturySchlbk-BoldItalic 1.6 gonzofont
/font3 /NewCenturySchlbk-BoldItalic 1.0 gonzofont
/font4 /ZapfDingbats [700500] gonzofont
0035.5571 .75 roundbox
\% set up a round box
[0.6 00.450 .99 ] superstroke
\% make it black with a gray stripe
gsave \% a gray pencil, etc...
bestgray 0.8 setgray 1 setlinecap
line2 7.650 .1 mt 17 r
3.855 .4 translate - 70 rotate
$00(\mid 4 /) \mathrm{cl}$ grestore
353 (|2a note from:) cl \% the blurb
1050.5 (|1Yodar Kritch) cl
17.71 .5 (|3(602) 428-4073) cc
grestore grestore\} def
\% call the proc, do it twice and print the page
1 copies $\quad \%$ the number of copies
\% no showpage needed (twonote) stepandrepeat quit

## The Valentine

This gives two copies per page without using the stepandrepeat.
gutility begin
nuisance begin
printerror
gonzo begin
landscape $\quad \%$ we want to print sideways
/showthegrid true def
\% define a proc called valentine
/valentine \{gsave
201510 setgrid
ASSIGNMENT 4: Design a personal or business notepaper and a mug
showthegrid
\{36 28 showgrid $\}$ if
/cstretch 0.02 def
/sstretch 0.1 def
/font0 /ZapfChancery-MediumItalic 7 gonzofont
/font $1 / Z a p f D i n g b a t s\left[\begin{array}{lllll}40 & 0 & 0 & 35 & 0\end{array}\right]$ ] gonzofont
bestgray lightgray \% a fine light gray
193 (|11252) cc \% and draw a big heart via dingbats
black $\quad$ \% back to black
/yinc 7 def $\quad \%$ seven block spacing
1917 (|0Thinking
of You) cc $\quad$ \% the message
grestore grestore \} def
\% first grestore gets you off the grid
valentine $\quad \%$ print the left valentine
gsave 3960 translate
valentine $\quad \%$ print the right valentine
grestore

## Thinking of You

## Thinking of You




Be My
Tootsie-
Wootsie

To Karren with from Kyle
showpage quit

## Inside of the Valentine

gutility begin
nuisance begin
printerror
gonzo begin
landscape $\quad \%$ we want to print sideways
/showthegrid true def
/invalentine \{gsave
201510 setgrid
showthegrid $\{3628$ showgrid $\}$ if
/cstretch 0.02 def
/sstretch 0.1 def
/font0 /ZapfChancery-MediumItalic 2 gonzofont
/font 1 /ZapfDingbats 5 gonzofont
bestgray lightgray \% a fine light gray
$181.3 \quad \%$ smaller gray hearts
(|1 \252 \252 \252 \252 \252) cc
black \% back to black
/yinc 2 def

| 1819 | \% Your personal message |
| :---: | :---: |
| (\|0Incredibly | \% inside message |
| Schmaltzy Glop |  |
| Goes Here) cc |  |
| 183.5 (\|0A Desk | Top |
| Valentine for Y grestore gresto |  |
| invalentine | \% print the left valentine |
| gsave 3960 tra |  |
| invalentine grestore | \% print the right valentine |
| showpage quit |  |

## A Standard Valentine Mug

gutility begin
nuisance begin
printerror
gonzo begin

## MUG RESOURCES

## Neil Enterprises Inc

940 Forest Edge Dr
Vernon Hills, IL 60061
(800) 621-5584
landscape
/showthegrid true def
0010 setgrid
showthegrid $\{7326$ showgrid $\}$ if
/cstretch 0.02 def
/sstretch 0.1 def
/font1 /ZapfDingbats [4 0040 -0.25] gonzofont
/font2 /Palatino-BoldItalic [4 00400 0] gonzofont
/font3 /Palatino-BoldItalic [6 006600 ] gonzofont
/font4 /Palatino-Italic [2 0002000 gonzofont
/yinc 7 def
2117.5 (|3Be My

Tootsie-
Wootsie) cc
/yinc 5 def
5419 (|2To Karren
with |1 $1244 \mid 2$
from Kyle
|4Valentines Day 1991) cc
showpage quit

## A Tall Mug

gutility begin
nuisance begin
printerror
gonzo begin
landscape
/showthegrid true def
0010 setgrid
showthegrid $\{7045$ showgrid $\}$ if
/cstretch 0.02 def
/sstretch 0.1 def
\%curvetrace the cap and scroll
/capscroll \{save /snapc exch def
0.1 setlinewidth
\%...........diploma
$\begin{array}{llllllllllll}32 & 9.8 & 10 & 37 & 11 & 10 & 43.5 & 13 & 10 & 43.5 & 13 & -55 \\ 44 & 10.5\end{array}$
$\begin{array}{llll}-120 & 44 & 10.5 & -160\end{array}$
$337-150 \quad 33780 \quad 338.5110 \quad 329.8145 \quad 31.59$-90
32.57 .50
$32.68 .5125 \quad 32.19165 \quad 31.98 .5-90 \quad 32.480 \quad 32.18 .7$
$135 \quad 32.18 .710$
32.38 .8 10] curvetrace stroke
32.67 .5 moveto 0.50 .2 rlineto stroke
\% $\qquad$ ribbon


1 setgray
$\left[\begin{array}{llllllll}37 & 11 & -45 & 38 & 9 & -90 & 37.87-100 & 37.8775 \\ 38.3 & 7.875\end{array}\right.$
38.37 .8 -75
$\begin{array}{llllllllll}38.6 & 7 & -75 & 38.6 & 7 & 80 & 38.7 & 9 & 90 & 37.9 \\ 11.1 & 135]\end{array}$
curvetrace fill
0 setgray
$\left[\begin{array}{lllllllll}37 & 11 & -45 & 38 & 9-90 & 37.87-100 & 37.8775 & 38.3 & 7.875\end{array}\right.$
$38.37 .8-75$
 curvetrace stroke
\%. $\qquad$ .top of mortarboard
3017 moveto 80 rlineto $6-3$ rlineto $0-0.3$ rlineto -10 0 rlineto
00.3 rlineto $0-0.3$ rlineto - 43 rlineto closepath stroke 3017 moveto $4-3$ rlineto 100 rlineto stroke
$\%$ $\qquad$ cap portion of mortarboard
$\left[\begin{array}{llllllllllll}33 & 14.5 & -135 & 32.5 & 12.5 & -90 & 32.5 & 12.5 & 10 & 34.5 & 11 & -75\end{array}\right.$ 34.51130
$37.5120 \quad 39.311 .7-20]$ curvetrace stroke
$\left[\begin{array}{llllll}40.5 & 13.7 & -75 & 40.7 & 12.2 & -95\end{array}\right]$ curvetrace stroke
\%.. $\qquad$ .tassle
\%....cord
\%0.3 setlinewidth
$\left[\begin{array}{lllllllll}36.5 & 15.5 & 180 & 32.1 & 15.5 & 180 & 31.8 & 14.5 & -90\end{array}\right]$ curvetrace stroke
\%...button
0.1 setlinewidth
[36.5 15.4 $9036.7515 .7503715 .4-903715.418036 .5$
15.4 180] curvetrace stroke
[31.8 14.5-20 $\quad 32.114-90 \quad 3213.75-110 \quad 3213.75-70$
32.113 -90
32.2 9.9-90] curvetrace stroke
$\left[\begin{array}{llllllllllll}31.8 & 14.5 & -160 & 31.5 & 14 & -90 & 31.6 & 13.75 & -70 & 31.6 & 13.75\end{array}\right.$
$110 \quad 31.313-90$
$31.210-90 \quad 31.37-90 \quad 31.370 \quad 31.76 .90$
32.2790
32.17 .790 ] curvetrace stroke
snapc restore \} def
\% call the caps and scrolls
gsave 23.522 translate capscroll grestore
gsave -23.5 0 translate capscroll grestore
/font1 /ZapfDingbats [4 $0040-0.25$ ] gonzofont /font2 /Bookman-Demi [3.5 0033.5000 ] gonzofont /font3 /Bookman-DemiItalic [6 006000 ] gonzofont /font4 /Bookman-Demi [2 0002000 ] gonzofont
/yinc 5 def
3735 (|2Luisa Vasquez) cc
3715 (|2Interior Design
|2NAU
1992) cc
gsave -15 rotate $\%$ rotate the print
232.5 (|3Congraduations!) cl
grestore
showpage quit

## PostScript Operators

| grestore | red book pg 429 |
| :--- | :--- |
| gsave | red book pg 430 |
| rotate | red book pg 484 |
| setgray | red book pg 504 |
| translate | red book pg 533 |

## Gonzo Commands

black
landscape lightgray roundbox box
returns printing to black from gray sets the landscape mode (horizontal) lightest gray available defines a complex black, gray, white

## On Your Own

Read Blue Book Chapter 4: Procedures \& Variables review Red Book pg 32.
Find forms using horizontal and vertical columns.

## COLOR RESOURCES

| "EMBOSSING" FOILS | LAMINATING |
| :--- | :--- |
| Kroy Color | Catalina Plastics |
| 14555 North Hayden Road |  |
| Scottsdale, AZ 85260 | 23901 Calabasas Road |
| (602) 951-1593 | Calabasas, CA 91302 |
| (800) 333-3136 |  |
| LaserColor | Kroy Color |
| Minds In Motion, Inc | 14555 North Hayden Road |
| 14260 Garden Road \#30B | Scottsdale, AZ 85260 |
| Poway, CA 92064 | (602) 951-1593 |
| (619) 748-5003 | Seal Products Inc |
| Transfer Print Foils | 550 Spring St |
| 9 Cotters Lane | Naugatuck, CT 06770 |
| East Brunswick, NJ 08816 | (203) 729-5201 |
| (201) 238-1800 | USI |
| Lewis Weiss | PO Box 644 |
| Box 370 | 33 Business Park Drive |
| Livingston Manor, NY 12758 | Branford, CT 06405 |
|  | (800) 282-9890 |

# MY GROCERY LIST 

| QUAN. | Item | STORE |
| :--- | :--- | :--- |
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## Forms: A Grocery List \& Quadpad

Uses graphics drawing and repeating line commands (xrpt, yrpt) to create a simple form.

## The Grocery List

gutility begin
nuisance begin
printerror
gonzo begin
/showthegrid true def
201510 setgrid
showthegrid
\{57 76 showgrid \} if
/cstretch 0.02 def
/sstretch 0.1 def
/font 1 /NewCenturySchlbk-Bold 2.1 gonzofont
\% define title letters
/font2 /NewCenturySchlbk-Bold 1.1 gonzofont
\% define smaller letters
\% set lower left corner of list gsave 1520 translate
\% print a heavy box
line3 1 setlinecap
00 mt 34 u 30 r 34 d 30 l
\% print group of horizontal lines
line1
[\{0 0 mt 30 r$\} 2$ 17] yrpt
line2
60 mt 34 u
$200 \mathrm{mt} 34 \mathrm{u} \quad \%$ print vertical dividers
line3
$032 \mathrm{mt} 30 \mathrm{r} \quad \%$ and a title divider
/yinc 1 def $\quad$ \% set the vertical line spacing
\% show the title
1536.5
(|1MY GROCERY LIST) cc
\% and subtitles
332.5 (|2QUAN.) cc
1332.5 (|2ITEM) cc
2532.5 (|2STORE) cc

2 copies $\quad \%$ make two copies
showpage $\quad \%$ and print the page
quit

## Quad Form Pads

\% Creates 4-up back-to-back pads arranged so you can \% apply padding compound to the outside edges.
gutility begin
nuisance begin
printerror
gonzo begin
landscape $\quad \%$ landscape orientation
/showthegrid true def
\% Define a routine called
\% quadpad that draws ONE
\% pad the way you want it
/quadpad \{
save /snap1 exch def
0010 setgrid
showthegrid $\{3728$ showgrid $\}$ if
/cstretch 0.02 def
/sstretch 0.1 def
/font1 /AvantGarde-Demi 1.5 gonzofont
/yinc 2 def
font 1
18.519 (Your stupendously great
padded form goes here) cc
6152571 roundbox line 3 stroke
clear snap1 restore $\}$ def
\% And these are the magic numbers to make two pads
\% rightside up and two pads upside down...

Your stupendously great padded form goes here
gsave 16316 translate quadpad grestore gsave 406316 translate quadpad grestore
$\%$ note that $11 \times 72=792$ and $8.5 \times 72=612$
$\%$ flip the whole world upside down 180 rotate -792-612 translate
gsave 16316 translate quadpad grestore gsave 406316 translate quadpad grestore

```
2 copies % make two copies
showpage % and print the page
```

quit

## Four Vertical Pads

gutility begin
printerror
nuisance begin
gonzo begin
\% defines the first pad
/hack \{save /snaph exch def
310390 translate -180 rotate
202010 setgrid \% 2735 showgrid
\% quickboxdraw needs: boxleft width boxtop height
\% corner radius linewidth
027303000.15 quickboxdraw
0.15 setlinewidth 028 mt 27 r
0.09 setlinewidth
[ $\left\{\begin{array}{ll}0 & 2 \mathrm{mt} 27 \mathrm{r}\} 2 \\ 2 & 14\end{array}\right] \mathrm{yrpt}$
110 mt 30 u
230 mt 30 u
250 mt 30 u
/cstretch 0.05 def /sstretch 0.1 def
/font0 /Helvetica-Bold 1.3 gonzofont
/font 1 /Helvetica-Narrow 0.9 gonzofont
/font2 /Helvetica 0.9 gonzofont
/yinc 1.3 def
13.534 (|0Hardware Hacker \#
|2Brian Fenton, Electronics Now
|2transfer to IBM from $\qquad$ ) cc
font1
5.528 .5 (file) cc
1728.5 (translate as) cc
2428.5 (X) cc
2628.5 (P) cc
/yinc 2 def
font2
126.5 (gonzo16a.ptl
hack.tit.
hack.txt.
hack.fig. $\qquad$ .1
hack.num.
hack.help
hack.ad.) cl
1226.5
(gonzo $\qquad$ .ptl
hack___.tit .tit
hack $\qquad$ .txt
hack________fg1
hack_________num
hack $\qquad$ .res
hack.hlp
hack________.ad) cl
snaph restore $\}$ def
\% defines the second pad
/resbin \{save /snaph exch def 310390 translate -180 rotate
202010 setgrid \% 2735 showgrid
027303000.15 quickboxdraw
0.15 setlinewidth 028 mt 27 r
0.09 setlinewidth
[ $\left\{\begin{array}{ll}0 & 2 \mathrm{mt} \\ 27 & \mathrm{r}\} \\ 2 & 14\end{array}\right] \mathrm{yrpt}$
110 mt 30 u
230 mt 30 u
250 mt 30 u
/cstretch 0.05 def /sstretch 0.1 def /font0 /Helvetica-Bold 1.3 gonzofont
/font1 /Helvetica-Narrow 0.9 gonzofont
/font2 /Helvetica 0.9 gonzofont
/yinc 1.3 def
13.534 (|0Resource Bin \# $\qquad$
|2Jack Lemeiux, Nuts \& Volts
|2transfer to IBM from $\qquad$ ) cc
font 1
5.528 .5 (file) cc
1728.5 (translate as) cc
2428.5 (X) cc
2628.5 (P) cc
/yinc 2 def
font2
126.5 (gonzo15a.ptl

Revue
readme $\qquad$
resbn $\qquad$ .gps
resbn $\qquad$ ad) cl
1226.5
(gonzo $\qquad$ .ptl
Revue
readme $\qquad$
resbn_ $\qquad$
resbn_ $\qquad$ .ad) cl
snaph restore $\}$ def
\% defines the third pad
/blat \{save /snaph exch def
202010 setgrid \% 2735 showgrid
027303000.15 quickboxdraw
0.15 setlinewidth 028 mt 27 r
0.09 setlinewidth
[ $\{02 \mathrm{mt} 27 \mathrm{r}\} 2$ 14] yrpt
110 mt 30 u
230 mt 30 u

Resource Bin \＃
Jack Lemeiux，Nuts \＆Volts transfer to IBM from

| file | translate as | X | P |
| :---: | :---: | :---: | :---: |
| agonzo17 | gonzo17．ptl |  |  |
| Revue | Revue |  |  |
| readme | readme |  |  |
| resbn＿＿＿．gps | resbn＿＿＿．gps |  |  |
| C．． 12 | resbn＿＿a．ps |  |  |
| c．$\quad 34$ | resbn＿＿b．ps |  |  |
| resbn＿＿＿＿．txt | resbi＿＿．txt |  |  |
| resbn＿＿＿．ad | resbn＿＿＿．ad |  |  |
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Hardware Hacker \＃
Brian Fenton，Electronics Now transfer to IBM from

| file | translate as | X | P |
| :---: | :---: | :---: | :---: |
| agonzo17 | gonzo17．ptl |  |  |
| hack．tit． | hack＿＿．tit |  |  |
| hack．txt． | hack＿＿＿．txt |  |  |
| hack．fig．． 1 | hack＿＿．fg1 |  |  |
| hack．fig．． 2 | hack＿＿．fg2 |  |  |
| hack．fig．． 3 | hack＿＿＿．fg3 |  |  |
| hack．fig．． 4 | hack＿＿．fg4 |  |  |
| hack．fig．． 5 | hack＿＿．fg5 |  |  |
| hack．num． | hack＿＿＿num |  |  |
| ＿．res． | hack＿＿．res |  |  |
| hack．help | hack．hlp |  |  |
| hack．ad． | hack＿＿＿．ad |  |  |
| classified | hack＿＿．cls |  |  |
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|  |  | sd－${ }^{-}$¢ 19 | $s d^{-\cdots} 1{ }^{-} 19$ |
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250 mt 30 u
/cstretch 0.05 def /sstretch 0.1 def /font0 /Helvetica-Bold 1.3 gonzofont /font1 /Helvetica-Narrow 0.9 gonzofont /font2 /Helvetica 0.9 gonzofont
/yinc 1.3 def
13.534 (|0Blatant Opportunist \# $\qquad$
|2Bill Gates, Midnight Engineering
|2transfer to IBM from $\qquad$ ) cc
font 1
5.528 .5 (file) cc
1728.5 (translate as) cc
2428.5 (X) cc
2628.5 (P) cc
/yinc 2 def
font2
126.5 (gonzo16a.ptl

Revue
readme. $\qquad$
blat $\qquad$ .ps
blat $\qquad$ .gps
blat_ $\qquad$ .txt
synerad. $\qquad$
) cl
1226.5
(gonzo $\qquad$ .ptl
Revue
readme. $\qquad$
blat $\qquad$ .ps
blat_____.gps
blat
blat .ad
) cl
snaph restore $\}$ def
\% defines the fourth pad
/misc \{save /snaph exch def
202010 setgrid \% 2735 showgrid
027303000.15 quickboxdraw
0.15 setlinewidth 028 mt 27 r
0.09 setlinewidth
[\{0 2 mt 27 r$\} 2$ 14] yrpt
110 mt 30 u
230 mt 30 u
250 mt 30 u
/cstretch 0.05 def /sstretch 0.1 def
/font0 /Helvetica-Bold 1.3 gonzofont /font 1 /Helvetica-Narrow 0.9 gonzofont
/font2 /Helvetica 0.9 gonzofont
/yinc 1.3 def
13.534 (|0
$\mid 2$


## font 1

5.528 .5 (file) cc
1728.5 (translate as) cc
2428.5 (X) cc
2628.5 (P) cc
/yinc 2 def
font2
126.5 (gonzo16a.ptl
) cl
1226.5
(gonzo $\qquad$ .ptl
) cl
snaph restore $\}$ def
\% calls and places each pad gsave 00 translate hack grestore gsave 3000 translate resbin grestore gsave 0390 translate blat grestore gsave 300390 translate misc grestore
showpage quit

## PostScript Operators

| clear | red book pg 373 |
| :--- | :--- |
| exch | red book pg 408 |
| restore | red book pg 481 |
| save | red book pg 486 |

## Gonzo Commands

font1
line 1
grid square
line2
grid square
line3
grid square
quickboxdraw
snap
horizontal direction
yrpt defines horizontal lines repeated in the
vertical direction

## On Your Own

Collect and bring in examples of report covers, catalog covers, book covers etc.

|  |  |
| :--- | :--- |
| POSTSCRIPT EMULATOR SOFTWARE RESOURCES |  |
| Freedom of the Press | GoScript |
| 900 Tech Park Drive \#8 | LaserGo |
| Billerica, MA 01821 | 9235 Trade Place Ste A |
| (800) 873-4367 | San Diego, CA 92126 |
|  | (619) 530-2400 |
|  |  |
| GhostScript | UltraScript |
| GEnie PSRT | QMS |
| 401 N Washington Street | PO Box 81250 |
| Rockville, MD 20850 | Mobile, AL 36689 |
| (800) 638-9636 | (205) 633-4300 |
|  |  |



## A Report Cover

Asimple report cover includes bold text and uses some simple sketching tools. Also shows use of two relative layout grids.

## The Cover

gutility begin
nuisance begin
printerror
gonzo begin
\% Do we want to see the main grid?
/showmaingrid false def
\% Do we want to see the box grid?
/showboxgrid true def
\% set the main page grid
201510 setgrid
\% and maybe show the grid
showmaingrid $\{5776$ showgrid $\}$ if
\% put down the main message ...
/cstretch 0.02 def
/sstretch 0.02 def
/font 1 /Palatino-Bold 8 gonzofont
/font2 /Palatino-Bold 2 gonzofont
\% our title message
font 1
28.510 (A REPORT) cc
\% and the author
font2
28.56 .5 (by Dramatis Personnae) cc
\% draw a moveable box ...
\% put bottom of box where wanted gsave 10.520 translate
$\%$ create a box
0036501.5 roundbox
$\%$ and stroke the outline
0.6 setlinewidth stroke
\% view the box grid - maybe showboxgrid $\{3650$ showgrid $\}$ if
\% draw some stuff inside the box ...
1 setlinecap line 1
130 mt 34 r \% horizon line
\% the mountain
gsave
newpath 229 mt 64.5 rlineto
$2-3$ rlineto 4.53 .5 rlineto
$6-5$ rlineto closepath
gsave line3 stroke grestore
bestgray lightgray fill
grestore
\% define a reusable generic cactus
/cactus
\{1 setlinecap 3 setlinewidth
06 mt 18 u 0 setlinecap 00 mt 6 u
2 setlinewidth 1 setlinecap -422 mt
11 d 4 r 2 setlinewidth 1 setlinecap
$3.520 \mathrm{mt} 6 \mathrm{~d} 4 \mathrm{l}\} \mathrm{def}$


## PostScript Operators

arc red book pg 365
clear red book pg 373
currentpoint red book pg 390
dup red book pg 404
exch red book pg 408
fill red book pg 416
neg red book pg 456
newpath red book pg 457
scale red book pg 487

## Gonzo Commands

roundbox used $x$ y width height radius
showmaingrid used for main grid with additional grids on the same page showboxgrid used to place a grid in a predefined box

## On Your Own

Bring a report of several paragraphs length, preferrably something you are currently working on. Or, bring a magazine or book article.

## BINDING RESOURCES

| American Binding Wire | General Binding Corp <br> 67 Maple Street |
| :--- | :--- |
| One GBC Plaza |  |
| Beacon, NY 12508 | Northbrook, IL 60062 |
| (800) 222-3794 | (800) 342-5422 |
| Bind-lt Corporation | Planax North America |
| 150 Commerce Drive | 15 East 26th Street, \#1908 |
| Hauppauge, NY 11788 | New York, NY 10010 |
| (516) 234-2500 | (212) 532-1988 |
| Cheshire | Specialties Bindery |
| 404 Washington Blvd | 4815 Lawrence Street |
| Mundelein, IL 60069 | Hyattsville, MD 20781 |
| (800) 323-1249 | (800) 638-LOOP |
| Coverbind Corporation | Standard |
| 20 Pocono Road | 10 Connector Road |
| Brookfield, CT 06804 | Andover, MA 01810 |
| (800) 366-6060 | (800) 526-4774 |
|  |  |
| *Duobind | *Unibind/Pelsaer |
| Duo-Tang Corp | 4125 Prospect Drive |
| 828 Duo-Tang Road | Carmichael, CA 95608 |
| Paw Paw, MI 49079 | (916) 967-6401 |
| (800) 852-0039 |  |
| *Velo-Bind/Docubind |  |
| JBI/Wire-O | 650 Almanor Avenue |
| 205 Cottage Street | Sunnyvale, CA 94086 |
| Pougheepsie, NY 12602 | (408) 732-4200 |
| (800) 431-4610 | *Most easily available |
| Gane Brothers | and usable |
| 1400 Greenleaf Avenue |  |
| Elk Grove Village, IL 60007 |  |
| (800) 323-0596 |  |

## PROFESSIONAL BINDERY RESOURCES

## Northwest Bookbinding/Otabind

510 North West 9th
Portland, OR 97209
(800) 542-8048

Thomson-Shore
7300 West Joy Road
Dexter, MI 48130
(313) 426-3939

## A Text Paragraph

## Using Gonzo Justification

An introduction to gonzo justification for large blocks of text, using a layout grid

## The Actual Program

gutility begin
nuisance begin
printerror
gonzo begin
/showthegrid false def
201510 setgrid
showthegrid $\{5776$ showgrid $\}$ if
\% select a bunch of fonts to show special effects . . .
\% Remember that we are on a 10 X grid, so 1.4 is 14 points

## /font0 /Times-Bold [6 $00060-3.48$ ] gonzofont \% special drop cap

/font1 /Times-Roman 1.4 gonzofont
/font2 /Times-Italic 1.4 gonzofont
/font3 /Times-Bold [1.5 $0001.50-1.3$ ] gonzofont
/font4 /Times-Roman 1.2 gonzofont
/font5 /Times-Italic 1.2 gonzofont
/font6 /Times-Bold 1.3 gonzofont
/font7 /Times-Bold 1.3 gonzofont
/font8 /Times-Roman [1.0 0001.0000 .4$]$
gonzofont \% superscript
/font9 /Times-Roman [1.0 $0001.00-0.3$ ]
gonzofont \% subscript
/font- /ZapfDingbats 1.4 gonzofont
/font= /Symbol 1.4 gonzofont
\% pick some template values
/txtwide 38 def $\%$ width of text
/yinc 1.7 def
/cstretch 0.02 def
/sstretch 0 def $\quad \%$ extra space between spaces
/maxsstretch 0.25 def $\%$ trip point for character stretching
/maxcstretch 0.1 def $\%$ maximum character stretching
/dropcount 3 def $\%$ number of lines the drop cap drops
/dropindent 5 def $\%$ indentation for the drop cap
/lastlinestretch 0.006 def
\% slight stretch to last paragraph line
/overstrikechar (\320) def \% overstrike character
/overstrikeht 0.7 def \% vertical shift of overstrike character
$\begin{array}{ll}\text { lytop } 59 \text { def } & \% \text { base of top text line } \\ \text { /ypos ytop def } & \% \text { select top text line }\end{array}$
/xpos 10 def $\quad$ \% left margin
/pm 1 def $\quad \%$ paragraph margin
/kern 0.1 def $\quad \%$ one point of custom kerning
\% select two macros to simplify drop caps and centered
\% drop text
/amacro $\{(\mathrm{Flzy} 0)$ stringmacro $\}$ def $\%$ start drop cap
/bmacro \{(iFy1) stringmacro $\}$ def $\%$ finish drop cap
/cmacro \{(zynC3) stringmacro $\}$ def $\%$ centered title
/dmacro $\{(\mathrm{pF} 1)$ stringmacro $\}$ def $\%$ normal text
\% and print the paragraph
\% IMPORTANT NOTE: Some word processors may force
\% extra carriage returns on you. The reverse slashes
\% shown below avoid this problem, but may not be
\% required. Try it both ways.
startgonzo
-a
H
|b
ere is a demonstration of a premium, gonzo fill justified

## ASSIGNMENT 7: Do a text paragraph using super \& subscripts and at least one heading

paragraph that has lots of interesting features. A very fancy automatic fill justify is used which stretches both spaces and between-character spacing by selected and controlled amounts. You can also individually kern characters, as in the word $|4 \mathrm{~A}| \mathrm{kW}|\mathrm{kARD}| 1$ here. See how the $|4 " \mathrm{~W}| \mid 1$ overlaps the |4"A"|1.
c
A Centered And Dropped Heading
|d
Note that only one single embedded command is needed to start either the drop cap or the auto centering headers. Note also that the above header is dropped slightly to improve its vibes.
|h
Naturally, |7bold|1, |2italic|1, |8superscript|1, and $\mid 9$ subscript| 1 are very easy to in- clude, freely intermixed on any line. Fully automatic hanging punctuation is included for such things as periods, commas, and hyphens. This greatly improves the appearance, especially with small columns of $|4300 \mathrm{DPI}| 1$ text.
|h
Some other tricks include showing |4ALL CAPITAL LETTERS|1 in a slightly smaller font for improved

Here is a demonstration of a premium, gonzo fill justified paragraph that has lots of interesting features. A very fancy automatic fill justify is used which stretches both spaces and between-character spacing by selected and controlled amounts. You can also individually kern characters, as in the word AWARD here. See how the "W" overlaps the "A".

## A Centered And Dropped Heading

Note that only one single embedded command is needed to start either the drop cap or the auto centering headers. Note also that the above header is dropped slightly to improve its vibes.

Naturally, bold, italic, superscript, and ${ }_{\text {subscript }}$ are very easy to include, freely intermixed on any line. Fully automatic hanging punctuation is included for such things as periods, commas, and hyphens. This greatly improves the appearance, especially with small columns of 300 DPI text.

Some other tricks include showing ALL CAPITAL LETTERS in a slightly smaller font for improved balance, and in using a Greek alphabet should you need something electronic, such as a $220 \Omega$ resistor, a $\overline{\text { RST }}$ complement, or an $0.1 \mu \mathrm{Fd}$. capacitor. $\diamond$
balance, and in using a Greek alphabet should you need something electronic, such as a $220|=\mathrm{W}| 1$ resistor, a $|4 \mathrm{R}| \mathrm{oS}|\mathrm{oT}| \mathrm{o} \mid 1$ complement, or an $0.1|=\mathrm{m}| 1 \mathrm{Fd}$. capacitor. |-G|1
$\mathrm{x} \quad$ \% end of gonzo marker
\% draw a box to prove we are out of gonzo
51748471.5 roundbox
[0.8 000.610 .350 0] superinsidestroke

| 1 copies | $\%$ make one copy |
| :--- | :--- |
| showpage | $\%$ and show the page |
| quit |  |

## Gonzo Commands

| macro |  |
| :--- | :--- |
| startgonzo | an executable array <br> Begins gonzo scanning of text that <br> follows. $\mid \mathrm{g}$ may also be used. <br> Terminates on end of file or $\mid \mathrm{x}$. |
| stringmacro | User defined embeddable escape <br> commands and macro commands. |
|  | A shorthand way of building macros. <br> For instance /amacro $\{(C y z 3)$ <br> stringmacro def does an $\|\mathrm{C}\| \mathrm{y}\|\mathrm{z}\| 3$ <br> all on a single $\mid$ a embedded command. |

## Gonzo Variables

ytop $\quad$ Vertical distance to base of top column
ybot $\quad$ line. $\quad$ Vertical distance to base of bottom
ypos Current vertical distance from bottom
yinc $\quad$ Vertical distance between column
xpos
txtwide
pm
yparendadj Extra vertical paragraph end ledding (usually zero).
colcheck
kern
cstretch
sstretch
lastlinestretch
maxsstretch
maxcstretch
dropcount
dropindent
overstrikechar
overstrikeht headerx
headery
headerwide

Vertical shift of overstrike character. Header xpos as used by template (optional).
Header ypos as used by template (optional).
Header txwide as used by template (optional).

## Embeddable Gonzo Commands.

Change to font 0 . Preferred use $=$ initial drop cap.
Change to font1. Preferred use $=$ normal body text.
Change to font2. Preferred use $=$ italic body text.
Change to font 3 . Preferred use $=$ bold body text.
Change to font 4 . Preferred use $=$ all caps normal body text.
Change to font5. Preferred use $=$ all caps italic body text.
Change to font6. Preferred use $=$ all caps bold body text.
Change to font 7 . Preferred use $=$ bold and dropped headers.
Change to font8. Preferred use $=$ subscripts.
Change to font 9 . Preferred use $=$ superscripts.
Change to font - . Preferred use $=$ ZapfDingbats.
Change to font $=$. Preferred use $=$ Symbol in body text size.

Change to center justification on xpos + txtwide.
Change to fill justification between xpos and xpos+txtwide.
Change to left justification starting at xpos.
Change to right justification ending at xpos + txtwide.

Perform user defined Macro amacro. Perform user defined Macro bmacro.
Perform user defined Macro cmacro.
Perform user defined Macro dmacro.
Perform user defined Macro emacro.
Perform user defined Macro fmacro.
Start gonzo justification. A PostScript alias for startgonzo.
Do a half of a negative linefeed.
Do an initial drop capital.
Do a positive kern.
Do a negative kern.
Do a full linefeed.
Nobreakconditional formfeed if within six lines of ybot.
Do an overstrike character.
Switch to normal paragraph margin, starting with next line.

| $\mid \mathrm{s}$ | Do a showpage for end of scanned file <br> only. |
| :--- | :--- |
| Ex | Exit gonzo justify and switch to native <br> PostScript. |
| y | Do a yinc up full negative linefeed. <br> z |
| Switch to zero paragraph margin, <br> starting with next line. |  |

## On Your Own

Review array information: Red Book pgs 31-32, 35, 37-38 \& 51-54.

Collect personal data for your resume. Work on finding a simple silouette or line art for curvetracing.

| DESK TOP RESOURCES |  |
| :---: | :---: |
| Bove \& Rhodes Reports | Personal Publishing |
| $\text { Gualala, CA } 95445$ | Itaska, IL 60143 |
| (707) 884-4413 | (312) 250-8900 |
| Desktop Communications | Presentation Products |
| PO Box 941745 | 513 Wilshire Blvd, Ste 344 |
| Atlanta, GA 30341 | Santa Monica, CA 90401 |
| (800) 966-9052 | (213) 455-1414 |
| Midnight Engineering | Publish! |
| 1700 Washington Avenue | 501 Second Street |
| Rocky Ford, CO 81067 | San Francisco, CA 94107 |
| Nuts \& Volts | Recharger |
| 430 Princeland Court | 3340 Sunrise Ave \#102 |
| Corona, Ca 91719 | La Vegas, NV 89101 |
| (714) 371-8497 | (702) 438-5557 |
| PC Publishing | Step-By-Step Elect Design |
| 950 Lee Street | 6000 North Forest Park Dr |
| Des Plaines, IL 60016 | Peoria, IL 61656 |
| (312) 296-0770 | (800) 255-8800 |


| TRADITIONAL PRINTING RESOURCES |  |
| :--- | :--- |
| American Printer | Printing Impressions |
| 29 North Wacker Drive | 401 North Broad Street |
| Chicago, IL 60606 | Philadelphia, PA 19108 |
| (312) 726-2802 | (215) 238-5300 |
|  |  |
| Converting Magazine | Printing Journal |
| 400 North Michigan Avenue | 80 S Lake Avenue \#550 |
| Chicago, IL 60611 | Pasadena, CA 91101 |
| (312) 222-2000 | (818) 793-7717 |
| High Volume Printing | Printing News |
| Box 368 | 245 West 17th Street |
| Northbrook, IL 60065 | New York, NY 10011 |
| (312) 564-5940 | (212) 463-6727 |
| In-Plant Printer | Publishing Executive |
| Box 368 | 401 North Broad Street |
| Northbrook, IL 60065 | Philadelphia, PA 19108 |
| (312) 564-5940 | (215) 238-5300 |
| In-Plant Reproductions | Publishing Technology |
| 401 North Broad Street | 401 North Broad Street |
| Philadelphia, PA 19108 | Philadelphia, PA 19108 |
| (215) 238-5300 | (215) 238-5300 |
| Instant \& Small Printer | Quick Printing |
| 425 Huehl Road, Bldg 11 | 1680 SW Bayshore Blvd |
| Northbrook, IL 60065 | Port St Lucie, FL 34984 |
| (708) 564-5940 | (407) 879-6666 |
| Paper \& Foil Converter | Screen Printing |
| 29 North Wacker Drive | 407 Gilbert Avenue |
| Chicago, IL 60606 | Cincinnati, OH 45202 |
| (312) 726-2802 | (513) 421-2050 |
|  |  |
|  |  |

## Resumes

Two forms of resumes. A standard resume done on a 10X grid and a chronological resume done without a grid.

## The Standard Resume

gutility begin nuisance begin printerror gonzo begin
/showthegrid true def
201510 setgrid
showthegrid $\{5776$ showgrid $\}$ if
/cstretch 0.02 def /sstretch 0.02 def

## \% FANCY TITLES VIA CUSTOM JUSTIFICATION

\% There are two programmable justification modes in \% gonzo, called justP and justQ. These can be entered at \% the end of each line. At that time, you can measure the $\%$ actual width by doing a txtwide roomleft sub, you can \% draw arbitrary art, or you can alter
\% stretch or positioning, etc. In this case, \% we do a superfancy underliner that \% automatically tracks the width of each \% heading...
/superstroke \{ save /sssnap exch def /sscmd exch def 02 sscmd length 2 div cvi 1 sub 2 mul \{/aposn exch def gsave sscmd aposn get setlinewidth sscmd aposn 1 add get setgray stroke grestore $\}$ for sssnap restore newpath\} def
/justQ \{txtwide roomleft sub gsave xpos ypos 0.5 sub moveto 0.2 add 0 rlineto 1 setlinecap bestgray [0.35 00.2 0.9 ] superstroke grestore justL\} def /titshift 0 def
\% pick some fonts
/font0 /Bookman-DemiItalic 1.1 gonzofont
/font 1 /Bookman-Light 0.9 gonzofont
/font2 /Bookman-Light 0.9 gonzofont
/font3 /Bookman-DemiItalic 1.0 gonzofont
/font4 /Bookman-LightItalic 0.9 gonzofont
/font5 /Bookman-Demi 0.85 gonzofont
\% amacro draws a justifying underline,
\% bmacro indents your text,
\% cmacro unindents you ...
/amacro \{ (Q3) stringmacro /xpos xpos titshift sub def \} def /bmacro \{ (L2) stringmacro /xpos xpos 7 add def \} def /cmacro \{ /xpos xpos -7 add def $\}$ def
/yinc 1.1 def
5374 (|0CRAIG FAULKNER|1
1847 Thatcher Blvd
Safford, AZ 85546
|h
(602) 428-1047) cr
bestgray 1 setlinecap
\% a nice header line
2.569 mt 530 rlineto
[0.5 000.350 .9 ] superstroke
31.5 mt 520 rlineto
[0.5 000.350 .9 ll superstroke
/xpos 6.5 def $\quad \%$ indent body 65 points
/ypos 66 def $\quad \%$ top of body 680 points
/yinc 1.15 def $\quad \% 11.5$ point spacing
/txtwide 35 def $\% 350$ point main text width
startgonzo
|aObjective:|2
|b
I am seeking a position where I will utilize my extensive computer application skills.

## ASSIGNMENT 8:

Do your personal resume in either style.
c |aSkills: |b |5Hardware:|2 Networking of Digital 8350 and MicroVax II; Texas Instruments DX110; IBM P/Ss, ATs, and XTs; Macintoshes, Apple IIgs; and PostScript Laser Printers.
|h
|5Software:|2 Local area transport, communications, word processing, data base, and spreadsheet applications, desk top publishing, as well as inventory management. |h
|5Programming:|2 COBOL, Pascal, C, DCL, PostScript, Machine Language, and BASIC.
|h
|5Business:|2 General business practices including accounting, inventory, sales, and marketing. Type 50 wpm . |c
|aExperience:|2
|b
|58/87-5/89 System Manager of MicroVax II|2
Eastern Arizona College, Thatcher, Arizona
Duties: Set up, develop programs for, and manage a network of mini- and micro-computers; manage user accounts and disk space; install and update software changes; work with faculty and administration in resolving

on campus computer problems; assist students in editing and debugging programs. Do backups on systems; |h
|53/86-5/89 Computer Consultant/Technician|2
Safford Builders Supply, Safford, Arizona
Duties: Installed and maintained communications equipment for data transmission between office and two stores; interpreted data for inventory programs; applied programs to receive and process daily sales information; translated software documentation into meaningful terms for office personnel.
|h
|54/88 - Present Computer Consultant/Technician|2
OmniTech, Safford, Arizona
Duties: Partner in a self started business designed to aid both business and individuals in computer related problems. Install and troubles shoot various types of computer systems.
|c
|aEducation:|2
|b
|5Eastern Arizona College, Thatcher, Arizona .|2
Part-time student, 1985 to 1986; Full-time student, 1987 to 1989. Graduated with AAS degree in Computer Information Specialist. Deans Honor List with a GPA of 3.81. Major: Computer Management Information Systems, Additional Studies in networking, data communications, operating systems, and business administration.
|h
|5New Life Christian School, Thatcher, Arizona.|2
Graduated May 1987. Nominated by faculty as Best All Around Senior; appeared on KTSP-TV for Academic All Stars; Student Body President. References available upon request.
|x
showpage quit

## Chronological Resume

gutility begin printerror nuisance begin
gonzo begin
/superstroke \{ save /sssnap exch def /sscmd exch def 02 sscmd length 2 div cvi 1 sub 2 mul \{/aposn exch def gsave sscmd aposn get setlinewidth sscmd aposn 1 add get setgray stroke grestore $\}$ for sssnap restore newpath \} def
/justQ \{txtwide roomleft sub gsave xpos ypos 5 sub moveto 2 add 0 rlineto 1 setlinecap bestgray $\left[\begin{array}{llll}3.5 & 0 & 2 & 0.9\end{array}\right]$ superstroke grestore justL\} def

## \% pick some fonts

/font0 /Palatino-Bold [11 00111000 ] gonzofont
/font1 /Palatino-Roman [19000900] gonzofont
/font2 /Palatino-Roman [8.5 0008.5000 0 gonzofont
/font3 /Palatino-Bold [10001020] gonzofont
/font4 /Palatino-Roman $\left[\begin{array}{lllll}9 & 0 & 2 & 9 & 0\end{array}\right]$ ] gonzofont
/font5 /Palatino-Bold [8.5 0008.500 0] gonzofont
/titshift 0 def
/amacro \{ (Q3) stringmacro /xpos xpos titshift sub def \} def /bmacro \{ (L5) stringmacro /xpos xpos 15 add def \} def /cmacro \{/xpos xpos -15 add def $\}$ def
/dmacro \{/xpos xpos 30 add def /txtwide 450 def $\}$ def
/emacro \{/xpos xpos -30 add def /txtwide 450 def $\}$ def
/fmacro $\{(\mathrm{yR})$ stringmacro $\}$ def
/Umacro \{/ypos ypos 3 add def $\}$ def
/Vmacro \{/ypos ypos 3.5 add def $\}$ def
/yinc 11 def
305765
(|0CATHY LANCASTER|1
8245 N 27th Ave, \#1049
Phoenix, Arizona 85051
|h|U
(602) 995-5868) cc
bestgray
1 setlinecap
55723 mt 4950 rlineto [ 6004.50 .9$]$ superstroke

/xpos 65 def
/ypos 695.8 def
/yinc 10.2 def
/txtwide 450 def
/ybot - 25 def
/tabs [15 200] def
startgonzo
|aWORK EXPERIENCE
|b
Old Mill|2 - Glendale, Arizona
|f|2July 1991 - December 1991
$|\mathrm{L}| \mathrm{h} \mid \mathrm{U}$
|b|1Position: |4First Assistant Manager
|h|U
$|1| t$-audit cash register/monies received $\mid t-f a c i l i t a t e$ intra-company communications
$\mid t-$ submit daily deposits to bank |t-handle customer relations and correspondence
 shows
$\mid t$-analysis of daily, weekly, monthly sales $\mid t$-transfer merchandise to manufacturer
$|t-c o m p a r e ~ s a l e s ~ f i g u r e s ~ t o ~ p r e v i o u s ~ y e a r ~| t-r e s e a r c h ~$ bid/purchase orders for store maintenance
$|t-r e c o r d / m a i n t a i n ~ p e t t y ~ c a s h ~ f u n d ~| t-a c c e p t / c h e c k ~ i n ~$ shipments
$\mid t-$ assist in hiring sales personnel $\mid t-c o v e r$ floor for maximum sales potential
 store alarm
$|\mathrm{c}| \mathrm{L} \mid 5 \mathrm{~J} . \mathrm{C}$. Penney|2 - Flagstaff, Arizona
|f|2April 1989 - January 1991
$|\mathrm{L}| \mathrm{h} \mid \mathrm{U}$
|b|1Position: |4Sales Associate
|h|U
$|t| 1$-weekend supervisor $\mid t$-opened and closed cash registers
$\mid \mathrm{t}$-maintained inventory control $\mid \mathrm{t}$-completed reports of errors
$|t-w r o t e ~ s a l e s ~ g o a l s ~ f o r ~ a s s o c i a t e s ~| t-c a l l e d ~ i n ~ c a t a l o g ~$ orders for customers
$\mid t-$ conducted department meetings $\mid \mathrm{t}$-locked safe after closing store

## WORK EXPERIENCE

Old Mill - Glendale, Arizona
July 1991 - December 1991
Position: First Assistant Manager
-audit cash register/monies received
-submit daily deposits to bank
-call in daily earnings
-analysis of daily, weekly, monthly sales
-compare sales figures to previous year
-record/maintain petty cash fund
-assist in hiring sales personnel
-report payroll to parent company
-facilitate intra-company communications -handle customer relations and correspondence -coordinate and conduct fashion shows -transfer merchandise to manufacturer -research bid/purchase orders for store maintenance -accept/check in shipments -cover floor for maximum sales potential -activate/deactivate store alarm

April 1989 - January 1991
J.C. Penney — Flagstaff, Arizona

Position: Sales Associate
-weekend supervisor
-maintained inventory control
-wrote sales goals for associates
-conducted department meetings
-opened and closed cash registers
-completed reports of errors
-called in catalog orders for customers
-locked safe after closing store

March 1987 - July 1988
Position: Sales Associate
-promoted sales/special events
-provided customer service
-handled custom orders
-created displays
-took inventory of stock
-put out new stock

Cloth World - Tempe, Arizona \& Phoenix, Arizona
put out new stock

## SKILLS

Macintosh - MS Word
IBM - Word Perfect
Apple II - AppleWorks
Appe Applor

Type 45 wpm
Point of Sale Terminal
Ten Key Calculator/Sharp Cash Register

## EDUCATION

August 1988 - May 1991
Northern Arizona University
Bachelor of Science: Fashion Merchandising and Marketing
Courses of Study:
-Business Statistics
-Presentation Techniques
-Market Research
-Merchandising Math

Phoenix College
Arizona State University

January 1988 - May 1988
August 1986 - December 1987

## ACTIVITIES/AWARDS

## J.C. Penney

Monetary Award High Sales during Fashion Expo Sale September 1990
Customer Service Award for Recognition of Service in Intimate Apparel November 1990

## Northern Arizona University

Associated Members of Fashion Merchandising/Historian September 1990-May 1991
European Fashion Study Tour
June 1990
CrossCurrents Fashion Show \& Seminar/Set \& Stage Producer
January 1991 - May 1991
Arizona State University \& Phoenix College
Marching \& Concert Bands
Kappa Delta Sorority/Beta Psi Chapter
August 1986 - May 1988
August 1986 - December 1987
$|c| L \mid 5 C l o t h$ World $\mid 2$ - Tempe, Arizona \& Phoenix, Arizona
|f|2March 1987 - July 1988
$|\mathrm{h}| \mathrm{U}$
|b|L|1Position: |4Sales Associate
|h|U
|1 |t-promoted sales/special events |t-created displays
$\mid \mathrm{t}$-provided customer service $\mid \mathrm{t}$-took inventory of stock
$\mid t-h a n d l e d$ custom orders $\mid t-$ put out new stock

## |h|c|c

aSKILLS
|b|c|d
|1|tMacintosh - MS Word |tType 45 wpm
|tIBM - Word Perfect |tPoint of Sale Terminal
|tApple II - AppleWorks |tTen Key Calculator/Sharp Cash Register
|h|e
|aEDUCATION
|b
Northern Arizona University
|f|2August 1988 - May 1991
$|\mathrm{h}| \mathrm{U}$
|b|L|1Bachelor of Science: Fashion Merchandising and Marketing
Courses of Study:
$\mid t-B u s i n e s s$ Statistics |t-Market Research
$\mid t-$ Presentation Techniques $\mid t-M e r c h a n d i s i n g ~ M a t h ~$
|h
|c|L|5Phoenix College
|f|2January 1988 - May 1988
|h
|L|5Arizona State University
|f|2August 1986 - December 1987
|c|h
|aACTIVITIES/AWARDS
|b
J.C. Penney
|h|U
|b|L|1Monetary Award High Sales during Fashion Expo Sale
|c|f|2September 1990
|b|1Customer Service Award for Recognition of Service in Intimate Apparel
|c|f|2November 1990
|L|5Northern Arizona University
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|b|1Associated Members of Fashion
Merchandising/Historian
|c|f|2September 1990 - May 1991
|b|L|1European Fashion Study Tour
|c|f|2June 1990
|b|L|1CrossCurrents Fashion Show \& Seminar/Set \& Stage
Producer
|c|f|2January 1991 - May 1991
|L|5Arizona State University \& Phoenix College
$|\mathrm{h}| \mathrm{U}$
|b|1Marching \& Concert Bands
|c|f|2August 1986 - May 1988
|b|L|1Kappa Delta Sorority/Beta Psi Chapter
|c|f|2August 1986 - December 1987
x
showpage quit

## Gonzo Commands

titshift horizontal shift in title
tabs allows you to set left justified tabs or columns
justQ user defined justification mode justP user defined justification mode justL left justification

## On Your Own

Bring a simple line drawing or silhouette for curvetracing. Some sources: coloring books, clip art books, Dover books, cookie cutters, rubber stamps, newspapers, stencils, flyers, etc.

## TONER REFILLING RESOURCES

| Black Lightning | Laser Products, Inc |
| :--- | :--- |
| RR 1-87 Depot Road | 12900 SW 132nd Court |
| Hartland, VT 05048 | Miami, FL 33186 |
| (800) BLACK99 | (305) 235-9544 |
|  |  |
| Diversified TechniGraphics | Recharger Magazine |
| 6 Morgan, Ste 112 | 3340 Sunrise LAvenue \#102 |
| Irvine, CA 92718 | Las Vegas, NV 89101 |
| (714) 855-3838 | (702) 438-5557 |
|  |  |
| Imaging Specialties, Inc | Toners Plus |
| 8475 Canoga Avenue | 206 A Street |
| Canoga Park, CA 91304 | Needham, MA 02194 |
| (818) 709-4244 | (800) 288-6637 |


curvetrace with a cusp

double filled curvetrace

plain filled curvetrace

curvetrace inside a path


## Simple Curvetrace

Shows you several fundamental exercises in curvetracing that you can use to draw smooth continuous lines and curves

## Curvetrace Rules

\% curvetrace rules: The curvetrace operator expects an \% array of form [ x0 y0 ang0 x1 y1 ang1 .... xn yn angn ] \% curvetrace, where:
$\% \mathrm{x} 0$ is the horizontal position of your first point $\% \mathrm{y} 0$ is the vertical position of your first point \% ang0 is the direction you wish to LEAVE your first point $\%$ with $0=$ east $90=$ north $180=$ west $-90=$ south
$\% \mathrm{xn}$ is the horizontal position of your last point
$\% \mathrm{yn}$ is the vertical position of your last point
$\%$ angn is the direction you wish to ENTER your last point $\%$ with $0=$ east $90=$ north $180=$ west $-90=$ south
\% if you want to see where you are, use /showtick true def.
\% To remove all ticks, use /showtick false def.
\% special rule: if $x 0$ and $y 0$ are both exactly zero, then
\% your curve APPENDS an existing path; if not, a new \% path is begun.

## Curvetrace Examples

gutility begin
nuisance begin
printerror
gonzo begin
/showfullgrid false def
202010 setgrid
showfullgrid $\{5776$ showgrid $\}$ if
/cstretch 0.04 def /sstretch 0.02 def
/font2 /Helvetica-Narrow-Bold 0.8 gonzofont
\% EXAMPLE \#1: a plain old curvetrace
gsave 1455 translate
1010 showgrid
[1 $149037064.5-75 \quad 92.50]$ curvetrace
0.1 setlinewidth stroke

5-1 (|2plain stroked curvetrace) cc grestore
\% EXAMPLE \#2: a plain old curvetrace showing your \% points for debugging
gsave 1440 translate
1010 showgrid
/showtick true def $\quad \%$ turn on the ticks
/ticklen 1 def /tickhead 0.25 def $\%$ set tick size
[1190 3770
0.1 setlinewidth stroke
/showtick false def $\quad$ \% turn ticks back off
5-1 (|2showing points) cc grestore
\% EXAMPLE \#3: a curvetrace with a cusp
$\%$ a cusp is done by repeating two x and y points having a
\% different entry and exit angle. Note how 4,2 repeats here.
gsave 1425 translate
1010 showgrid
$\left[\begin{array}{cccccccc}1 & 6 & 0 & 4 & 2-90 & 4 & 290 & 9 \\ 8 & 0\end{array}\right]$ curvetrace
0.1 setlinewidth stroke

5-1 (|2curvetrace with a cusp) cc grestore
\% EXAMPLE \#4: variable linewidth curvetracing.
\% for variable linewidths, use an "up" path and a "down"
\% path and then fill between them. WATCH THE PATH

gsave 1410 translate
1010 showgrid
$\begin{array}{llll}{[130} & 4545 & 970\end{array}$
$97180 \quad 65-135 \quad 13180$ ] curvetrace fill
5-1 (|2double filled curvetrace) cc grestore
\% EXAMPLE \#5: a filled curvetrace
\% All the previous examples have stroked the path. This \% one fills it instead
gsave 3455 translate
1010 showgrid
[3745 66-45 73 -135 $44135 \quad 3745$ ] curvetrace fill
5-1 (|2plain filled curvetrace) cc grestore
\% EXAMPLE \#6: curvetraceing inside a path
\% The rule: If $x 0$ and $y 0$ are both exactly zero, then the \% curvetrace APPENDS itself to an existing path. If not, \% a new path is begun
gsave 3440 translate
1010 showgrid
$15 \mathrm{mt} \quad \%$ start the path
3 pr [0000 509180650$]$ curvetrace
$\%$ add a curved portion
$3 \mathrm{pr} \quad \%$ add another straight part
0.3 setlinewidth 1 setlinecap stroke

5-1 (|2curvetrace inside a path) cc
grestore
\% EXAMPLE \#7: pipes, braids or wire are done with
\% multiple stroking.
\% just use superstroke or superinsidestroke for fancy
\% drawing. With superstroke, an array of
\% [fattestthick fattestgray .... thinnestthick thinnestgray]
$\%$ is expected
gsave 3425 translate
1010 showgrid
[23 30 O 870 0] curvetrace
1 setlinecap
bestgray
[0.6 000.450 .9 ] superstroke
\% black 0.6 wide and gray 0.45 wide
5-1 (|2pipe or wire) cc
grestore

| CLIP ART \& CURVETRACE IDEAS |  |
| :--- | :--- |
| Art Master | Dream Maker Software |
| Box 8532 | 7217 Foothill Blvd |
| San Marino, CA 91108 | Tujunga, CA 91042 |
| California Freeware | (800) 876-5665 |
| 1747 East Avenue Q \#C-1 | GEnie BBS |
| Palmdale, Ca 93550 | PSRT, DTP, HSBS, ARTS |
| (805) 273-0300 | 401 N Washington St |
| Clipper | Rockville, MD 20850 |
| Dynamic Graphics | (800) 638-9636 |
| 6000 N Forest Park Dr | Graphic Products Corp |
| Peoria, IL 61614 | 3601 Edison Place |
| (309) 688-8800 | Rolling Meadows, IL 60008 |
|  | (312) 537-9300 |
| Dot Graphic Supply Co |  |
| 1612 California St | Multi-Ad Services, Inc |
| Omaha, NE 68101 | PO Box 806 |
| (800) 228-7272 | Peoria, IL 61652 |
| Dover Publications | (309) 692-1530 |
| 31 E 2nd St |  |
| Mineola, NY 11501 |  |
| (516) 294-7000 |  |

\% EXAMPLE \#8: changing the tension.
\% an internal parameter called /tension decides how "gung \% ho" the curve leaves and enters the points. The "best" $\%$ tension value is usually 2.8 . Higher tension values make \% the curvetracing more "rigid" or straight-line-like.
\% Negative tension values make the curvetracing "looser"
\% or more loopy. Negative tensions go round the
\% other way.
gsave 3410 translate
1010 showgrid
\% define a simple curvetrace
0 setlinewidth
/ctproc $\left\{\left[\begin{array}{lllll}3 & 3 & 90 & 7 & 7\end{array}\right]\right.$ curvetrace stroke $\}$ def
/tension 0.48 def ctproc \% so loopy it overshoots
/tension 0.55 def ctproc
/tension 0.7 def ctproc $\%$ really gung ho
/tension 1.0 def ctproc
/tension 1.4 def ctproc
/tension 2.0 def ctproc
/tension 2.8 def ctproc $\%$ normal curve
/tension 6.0 def ctproc $\%$ fairly rigid
/tension 100 def ctproc $\%$ almost straight
/tension -0.8 def ctproc $\%$ round the other way.
5-1 (|2changing tension) cc
grestore
showpage quit

## PostScript Operators

curveto red book pg 393

## Gonzo Commands

ctproc
curvetrace proc - allows you to change tension on a curvetraced path
curvetrace
showtick calls the curvetraced path shows an arrow at each data point at angle entered
superinsidestroke allows an a-symmetric border

## GRAPHICS PUBLICATIONS RESOURCES

| Advanced Imaging <br> 210 Crossways Park Drive Woodbury, NY 11797 <br> (516) 496-8000 <br> Art Material Trade News 6255 Barfield Road Atlanta, GA 30328 (404) 256-9800 <br> Computer Graphics World One Technology Park Drive Westford, MA 01886 (508) 692-0700 |
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## Computer Pictures

701 Westchester Avenue
White Plains, NY 10604
(914) 328-9157

Graphic Arts Monthly
249 West 17th Street
New York, NY 10011
(212) 463-6834

Graphic Arts Product News 29 North Wacker Drive Chicago, IL 60606 (312) 726-2802

Step-By-Step Graphics 6000 North Forest Park Drive Peoria. IL 61656 (800) 255-8800

| ART SUPPLIES RESOURCES |  |
| :--- | :--- |
| Dick Blick | Jerry's Artarama |
| Box 1267 | PO Box 1105 |
| Galesburg, IL 61401 | New Hyde Park, NY 11040 |
| (800) 447-8192 | (800) U-ARTIST |
| Clotilde | Saga |
| 1909 SW First Avenue | Intergchange Office Park |
| Ft Lauderdale, FL 33315 | 400 Highway 169 South |
| (800) 772-2891 | Minneapolis, MN 55426 |
| Craft King | (800) 328-0727 |
| PO Box 90637 | Sax Arts \& Crafts |
| Lakeland, FL 33804 | PO Box 51710 |
| (813) 686-9600 | New Berlin WI 53151 |
| Flax Art \& Design | (800) 323-0388 |
| 1699 Market Street |  |
| San Francisco, CA 94120 |  |
| (800) 547-7778 |  |


| tension | changes the amount of curve or <br> negative curve generated <br> defines the length of arrow shaft |
| :--- | :--- |
| ticklen | defines the length of arrow head |
| tickhead |  |

## On Your Own

Bring several names/addresses of friends or business to which you frequently address envelopes/letters/labels.

Aaron A. Aardvark
111 Ardmore Avenue
Artesia, AZ, 11111

This is a sample form letter with auto-changinging addresses. The body of your form letter goes in this space.

Sincerely yours,

DTP Class, Spring 1995

## Autoaddressing - Letters,

## Envelopes, Labels

An introduction to auto-addressing form letters, envelopes, and address labels. The same routines are easily used for autolabeling custom certificates, and awards.

Provisions are included for auto extracting custom information from a name or proc file. When using custom info, the routines are smart enough to handle partial sheets. Custom data can also be placed in variable form positions.

The actual stepandrepeat files being used are: /busenvelope [1 1685305015020 true true $]$ def \% defines 1 \#10 envelope
/fullportpage [1 1000202050 false false] def
$\%$ entire portrait page for form letters
/shiplabel [142901801606540 true false] def
\% 4 custom shipping labels
/fulllandpage [1 1000202050 false true] def
$\%$ entire landscape page for certificates or awards
\% default variables used by stepnrpt
/srexitproc $\}$ def $\%$ default short exit - don't do it.
/numpages 1 def $\quad \%$ default number to print
/startnum 0 def $\%$ initial ticket number /runnum startnum def \% running pointer \% advances one per repeat
/repeatproc $\}$ def $\%$ artwork to get \% repeated - default
/customdata false def \% autopaginate \% custom data?
\%/srfile gets used for custom entries. Each
\% entry can be a string or a proc, but ONLY ONE ENTRY
\% is allowed per final repeat.
/srfile [(You) (forgot) (to) (define) (srfile!)] def
\% default srfile
\% /calcpages is an optional routine that decides how many
\% pages are needed ONLY when you are using a custom \% srfile. This allows early exits when or if you run out \% of data.
/calcpages \{dup cvn stepnrptparams exch get dup 0 get exch 1 get mul cvi srfile length exch div ceiling cvi /numpages exch def\} def
\% To force an early exit when you run out of names or \% reach a given ticket number, test suitably. Then \% conditionally make /quickexit true and exit repeatproc.
\% Note that an ending showpage is NOT required and
\% should NOT be used

## Autoaddressing Form Letters

\% This sends a form letter to everybody on the address list.
\% Again, use the Gonzo routines for first rate quality
gutility begin
printerror
nuisance begin
gonzo begin
\% your letterhead goes here
/letterhead \{gsave
/font0 /Helvetica-Bold [12 0012000 ] gonzofont
296730 (|0Your letterhead goes here) cc
1 setlinecap 2 setlinewidth
50720 moveto 5300 rlineto stroke
grestore $\}$ def
/font1 /Palatino-Roman 11 gonzofont
/font2 /Palatino-Italic 11 gonzofont
/font3 /Palatino-Bold 11 gonzofont

ASSIGNMENT 10: Do a personal or business envelope, form letter, and/or labels.

## 75340

/font4 /Palatino-BoldItalic 11 gonzofont
/date \{gsave
font 1
450680 (March 30, 1994) cr
grestore $\}$ def
/body \{ gsave /txtwide 400 def
(|1This is a |2sample form letter|1 with |3auto- changing|1 addresses. The body of your form letter goes in this space.) cl
grestore $\}$ def
/signature \{gsave 75250 (|1Sincerely yours,

DTP Class, Spring 1994) cl grestore \} def
/repeatproc \{
srfile length 1 sub runnum lt \{/quickexit true def exit\} if
letterhead
date
body
signature
20010 moveto
75400 srfile runnum get cl

Zeus Zimmerman
9999 Zoraster Way
Zion, UT 9999

## Aaron A. Aardvark <br> 111 Ardmore Avenue <br> Artesia, AZ 11111

$$
\} \text { def }
$$

/srfile [
font 1
(Aaron A. Aardvark
111 Ardmore Avenue
Artesia, AZ, 11111)
(Boyd B. Benson
222 Baker Boulevard
Bismark, BB, 22222)
(Clyde C. Calhoun
333 Cumberland Circle
Chambers, CA, 3333)
] def
/runnum 0 def
/customdata true def
(fullportpage) stepandrepeat
quit

## Auto Addressing Envelopes

\% This example creates and then auto-addresses a business \% envelope. Once again, use the Gonzo utilities for best \% results.
gutility begin $\quad$ \% open some dictionaries
printerror
nuisance begin
gonzo begin
$\%$ /striplines takes a multi-line string, extracts to paper
$\%$ individual line string, and then executes stripproc for
$\%$ each line. Useful for simple addressing and custom form
$\%$ filling-in.

## /striplines \{gsave $\{()$ search \{exch pop stripproc $\}$

 \{stripproc exit\} ifelse\} loop grestore\} def\% Some stripproc is needed by striplines. This stripproc \% does a left justified address, given the x and y position \% on the stack
/stripproc \{currentpoint 3-1 roll show yinc sub moveto\} def
\% And this sits in for your logo and return address...
/returnaddress \{gsave
(Zeus Zimmerman
9999 Zoraster Way
Zion, UT 9999) striplines
grestore\} def
/yinc 14 def \% spacing of both addresses
/font1/Bookman-Demi [10 001000 0] gonzofont
/font2/Bookman-Demi [12001200] gonzofont
/repeatproc \{

20280 moveto $\%$ positions return address
font1 setfont
returnaddress

270135 moveto $\%$ positions main address font 2 setfont
srfile runnum get striplines
\} def
/sfrile [
(Aaron A. Aardvark
111 Ardmore Avenue
Artesia, AZ 11111)
(Boyd B. Benson
222 Baker Boulevard
Bismark, BC 2B2 2B2)
(Clyde C. Calhoun
333 Cumberland Circle
Chambers, CA 33333)
] def
/customdata true def
(busenvelope) stepandrepeat
quit

## Auto Addressing Labels

\% This example creates and then auto-addresses a strip of \% custom shipping labels. Once again, use the Gonzo \% justification and utilities for fast and convenient results.

$$
\begin{array}{lc}
\text { gutility begin } & \text { \% open some dictionaries } \\
\text { printerror } \\
\text { nuisance begin } & \% \text { print errors to paper }
\end{array}
$$

gonzo begin
\% /striplines takes a multi-line string, extracts each
\% individual line string, and then executes stripproc for
\% each line. Useful for simple addressing and custom form
$\%$ filling-in.
/striplines $\{\{()$ search $\{$ exch pop stripproc $\}$
\{stripproc exit\} ifelse\} loop \} def
\% Some stripproc is needed by striplines. This stripproc
\% does a left justified address...
/stripproc \{ font2 xpos ypos moveto show 0 yinc neg translate \} def
\% a simple centering proc
/censhow \{currentpoint exch 2 index stringwidth pop 2 div sub exch moveto show\} def
\% Here is some crude label art ...
/labelart \{gsave 6 setlinewidth 0 setgray 1 setlinejoin 1 setlinecap 1010 moveto 0160 rlineto 2700 rlineto
0-160 rlineto closepath stroke 3 setlinewidth
10112 moveto 2700 rlineto stroke\} def
\% And this sits in for your logo and return address...
/logoandreturnaddress \{gsave
145135
(|1LOGO

Darryl. D. Doldrum
444 Dakota Drive
Dover, DE 44444

LOGO
\& RETURN ADDRESS

Clyde C. Calhoun
333 Cumberland Circle
Chambers, CA 33333

LOGO
\& RETURN ADDRESS

Boyd B. Benson
222 Baker Boulevard
Bismark, BC 2B2 2B2

LOGO

Aaron A. Aardvark
111 Ardmore Avenue
Artesia, AZ 11111
|2\& RETURN ADDRESS) cc \} def
/font 1 /Bookman-Demi [16 0002000 0] gonzofont /font2 /Bookman-Demi [12001200] gonzofont
/xpos 35 def \% left margin of main address
/ypos 80 def \% base position of top address line /yinc 14 def \% spacing of main address
/repeatproc \{
srfile length 1 sub runnum lt \{/quickexit true def exit \} if
labelart
logoandreturnaddress
gsave
srfile runnum get striplines
grestore
\} def
/srfile [
(Aaron A. Aardvark
111 Ardmore Avenue
Artesia, AZ 11111)
(Boyd B. Benson
222 Baker Boulevard
Bismark, BC 2B2 2B2)
(Clyde C. Calhoun
333 Cumberland Circle
Chambers, CA 33333)
(Darryl. D. Doldrum
444 Dakota Drive
Dover, DE 44444)
(Eggbert E. Evans
555 Engle Easement
Euclid, Europe 55555)
(Frank F. Fairmont
666 Fogerty Flophouse
Fairview, FL 6666)
] def
/runnum 0 def
/customdata true def
(shiplabel) stepandrepeat
quit

## PostScript Operators

eq red book page 407
ge red book page 425
get red book page 426
le red book page 448
lt red book page 451
ne
red book page 456

## Gonzo Commands

calcpages
decides how many pages are needed when you are using a custom srfile.

This allows early exits when or if you run out of data
censhow customdata
numpages
quickexit
runnum
srexitproc
srfile
startnum
striplines
stripproc
a simple centering proc autopaginate custom data? default number to print forces an early exit when you run out of names or reach a given ticket running pointer advances one per default short exit - don't do it gets used for custom entries initial ticket number takes a multi-line string, extracts each individual line string, and then executes stripproc for each line. Useful for simple addressing and custom form filling-in. needed by striplines

## User Defined Procs

letterhead
date
body
signature
labelart
logoandreturnaddress
returnaddress

## On Your Own

Collect flyers, graduation announcements, wedding announcements, cards, etc for quad- and tri- fold projects.

## SPINDLE/MUTILATE/TEAR RESOURCES

| ADI Machines | Panasonic <br> 20505 E Valley Blvd, \#104 <br> Walnut, CA 91789 <br> Two Panasonic Way <br> (714) 594-0097 |
| :--- | :--- |
| Secaucus, NJ 07094 |  |
| (201) 348-7000 |  |

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## for the giant sea tortoise.

## Quadfold and Trifold

## Announcements or Flyers

Asample of three possible folding techniques quadfolds, vertical trifolds, and horizontal trifolds for announcements, flyers, brochures, greeting cards, thank you notes, etc using layout grids.

## Quadfold Card

\% Four panel foldover for announcements or thank you \% notes
gutility begin
nuisance begin
printerror
gonzo begin
/showallgrids true def
\% This magic proc takes four individual panels called
\% firstpanelproc through fourthpanelproc and arranges
\% them properly on the page ....
/quadfoldproc \{
save /p1snap exch def 201172 mul 2 div 20 add 10 setgrid upsidedownpanel
firstpanelproc clear p1snap restore
save /p1snap exch def 20203 sub 10 setgrid
showallgrids $\{2736$ showgrid $\}$ if secondpanelproc clear p1snap restore
save /p1snap exch def 8.572 mul 2 div 20 add 203 sub 10 setgrid
showallgrids $\{2736$ showgrid $\}$ if
thirdpanelproc clear p1snap restore
save /p1snap exch def 8.572 mul 2 div 20 add 1172 mul 2 div 20 add 10 setgrid
upsidedownpanel
showallgrids \{27 36 showgrid \} if
fourthpanelproc clear p1snap restore
\} def
/upsidedownpanel \{ 2736 translate 180 rotate \} def \% used by quadfoldproc
\% here is a quick and simple border ...
/niceborder \{ 2 [020 0362736270000 20] roundpath [ 0.800 .610 .40 ] superinsidestroke $\}$ def
\% Here are four example panels ...
/firstpanelproc \{
$/$ cstretch 0.02 def
/sstretch 0.02 def
/font 1 /Helvetica 0.85 gonzofont
/font2 /ZapfChancery-MediumItalic 3 gonzofont
niceborder 55 (|1first panel ) cl
13.520 (|2Thank you) cc
\} def
/secondpanelproc \{
/cstretch 0.02 def
/sstretch 0.02 def
/font 1 /Helvetica 0.85 gonzofont
/font2 /ZapfChancery-MediumItalic 3 gonzofont
55 (|1second panel) cl \} def
/thirdpanelproc \{
/cstretch 0.02 def
/sstretch 0.02 def
/font $1 / H e l v e t i c a ~ 0.85$ gonzofont
/font2 /ZapfChancery-MediumItalic 3 gonzofont
55 ( | 1 third panel ) cl

## /yinc 4 def

13.520 (|2for the giant sea tortoise.) cc \} def
/fourthpanelproc \{ /cstretch 0.02 def /sstretch 0.02 def /font1 /Helvetica 0.85

## gonzofont

/font2 /ZapfChancery-MediumItalic 3 gonzofont
55 (|1fourth panel) cl \} def
$\%$ and this does the whole job automatically quadfoldproc
showpage
quit

## Vertical Trifold Brochure

\% Three or four panel info brochure
gutility begin
nuisance begin
printerror
gonzo begin
landscape $\quad \%$ because we want vertical panels
/showallgrids true def
top panel

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$\begin{array}{ll}\text { /colcheck }\} \text { def } & \text { \% bypass default } \\ \text { /quadpixel }\} \text { def } & \text { \% bypass default }\end{array}$
\% position the panels
/panelset1 \{ $1520 \quad 10$ setgrid showallgrids $\begin{cases}23 & 57\end{cases}$
showgrid \} if $\}$ def
/panelset2 \{ 2802010 setgrid showallgrids \{23 57
showgrid \} if \} def
/panelset3 \{ 5452010 setgrid showallgrids $\{2357$ showgrid \} if \} def
/panelset4 \{\} def
\% process the panels
/showpanels \{
save /snapx exch def panelset 1 paneltext1 snapx restore save /snapx exch def panelset 2 paneltext 2 snapx restore save /snapx exch def panelset 3 paneltext 3 snapx restore save /snapx exch def panelset4 paneltext4 snapx restore\} def
/yinc 1 def
/ytop 54 def
/ypos ytop def
/xpos 0 def
/txtwide 28 def
\% define your panels here ...
/paneltext1 \{
/sstretch 0.02 def
/cstretch 0.02 def
/font0 /Helvetica-Bold 1.2 gonzofont
/font 1 /Helvetica 0.85 gonzofont
/font2 /Helvetica-Oblique 0.85 gonzofont
55 (|2first panel) cl
\} def
/paneltext2 \{
/sstretch 0.02 def
/cstretch 0.02 def
/font0 /Helvetica-Bold 1.2 gonzofont
/font 1 /Helvetica 0.85 gonzofont
/font2 /Helvetica-Oblique 0.85 gonzofont
55 (|2second panel) cl
\} def
/paneltext3 \{
/sstretch 0.02 def
/cstretch 0.02 def
/font0 /Helvetica-Bold 1.2 gonzofont
/font1 /Helvetica 0.85 gonzofont
/font2 /Helvetica-Oblique 0.85 gonzofont
55 (|2third panel) cl
\} def
\% \% a fourth panel - use with legal paper \%\%
/paneltext4 \{
/sstretch 0.02 def
$/$ cstretch 0.02 def
/font0/Helvetica-Bold 1.2 gonzofont
/font 1 /Helvetica 0.85 gonzofont
/font2 /Helvetica-Oblique 0.85 gonzofont

55 (|2fourth panel) cl
\} def
\% and actually do it
showpanels
showpage quit

## Horizontal Trifold Flyer

\% Three panel brochure with center panel inverted ...
gutility begin
nuisance begin
printerror
gonzo begin
/showallgrids true def
/quadpixel \{\} def \% cures a bug of mine
showallgrids \{gsave 0 setlinewidth 01172 mul 2 mul 3 div moveto 10000 rlineto stroke 01172 mul 1 mul 3 div moveto 10000 rlineto stroke grestore \} if
/upsidedownpanel \{ 5723 translate 180 rotate \} def \% used by middle panel
\% here are your three panels. Each is done separately and
\% positions itself automatically ...
/toppanelproc \{
/cstretch 0.02 def
/sstretch 0.02 def
/font0 /Helvetica-Bold 1.2 gonzofont
/font1 /Helvetica 0.85 gonzofont
/font2 /Helvetica-Oblique 0.85 gonzofont
55 (|1 top panel ) cl \} def
/midpanelproc \{
/cstretch 0.02 def
/sstretch 0.02 def
/font0 /Helvetica-Bold 1.2 gonzofont
/font 1 /Helvetica 0.85 gonzofont
/font2 /Helvetica-Oblique 0.85 gonzofont
55 (|1 middle panel ) cl \} def
/botpanelproc \{
/cstretch 0.02 def
/sstretch 0.02 def
/font0 /Helvetica-Bold 1.2 gonzofont
/font 1 /Helvetica 0.85 gonzofont
/font2 /Helvetica-Oblique 0.85 gonzofont
55 (|1 bottom panel) cl \} def
/triplepanelbrooch \{
save /p1snap exch def 201172 mul 2 mul 3 div 20 add 3 sub 10 setgrid
showallgrids $\{5723$ showgrid $\}$ if
toppanelproc clear p1snap restore
save /p1snap exch def 201172 mul 3 div 20 add 3 sub 10 setgrid
upsidedownpanel
showallgrids $\{5723$ showgrid $\}$ if
midpanelproc clear p1snap restore


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save /p1snap exch def 201710 setgrid
showallgrids $\{5723$ showgrid $\}$ if
botpanelproc clear p1snap restore
\} def
\% this does all the work ....
triplepanelbrooch
showpage quit

## Gonzo Commands

colcheck
panelset posiions each panel in the vertical trifold borchure quadpixel refines the grid upsidedownpanel inverts a panel

## User Defined Procs

paneltext each panel of the vertical trifold
toppanelproc horizontal top panel
midpanelproc horizontal middle panel
botpanelproc horizontal bottom panel

## On Your Own

Read Blue Book Chapter 5: Printing Text.
Collect and bring in short sayings for bumperstickers, T-shirts, and badges. Bring in a simple 3-4 line address, etc for a rubberstamp.

| OTHER COLOR RESOURCES |  |
| :--- | :--- |
| Photolabels | "THE COLOR BOOK" |
| Photoprint Inc | Seiko Mead Company |
| 419 Eisenhower Lane S | 3385 Newmark Drive |
| Lombard, IL 60148 | Miamisburg, OH 45342 |
| (708) 691-8181 | (800) 553-7556 |
|  |  |
| Toner Thermography |  |
| Bennet LaserBrite |  |
| 720 4th St SW |  |
| Rochester MN 55902 |  |
| (507) 280-9101 |  |



## Arcjustify Badges

## \& Bumperstickers

Text can be made to follow any predetermined path. We are using a simple arc justification routine to create circle text for use in T-Shirts and badges. Astrobright peel and stick papers can be used to create custom bumperstickers in very small quantities. There are three different examples given using step and repeat routines.

## Arcjustify \& Badge

gutility begin
nuisance begin
printerror
gonzo begin
landscape $\quad \%$ this one horizontal
/showthegrid false def
201510 setgrid
showthegrid $\{7657$ showgrid $\}$ if

## \% THE FIRE JACKET

\% NOTE: in an arcjustify, the first number is the xcenter, $\%$ the second is the ycenter, and the third is the radius. \% Use a negative radius if you want to be \% concave instead of convex.
/str () def
\% define a kerning character /customkernchar ( $\sim$ ) def
\% special arc justify kern between
\% characters
/customkern -0.25 def
/arckern 0.15 def \% stretch characters
/font 9 /Times-Bold 7 gonzofont
font9
38642 (THATCHER FIRE DEPT.) karcjustify

## \%THE BADGE

\% Define a badge proc
/badge \{gsave translate \% move to desired center location
0 setlinewidth $\quad \%$ draw an (optional) outside circle
0017.20360 arc stroke $\%$ for the Badge-A-Minit cutter
009.50360 arc stroke $\%$ the actual badge diameter
line3
007.50360 arc stroke $\%$ the outside printed circle
line 1
005.70360 arc $\quad \%$ this is the inside gray gsave bestgray lightgray $\%$ circular fill area fill grestore
stroke
/arckern 0.03 def $\%$ slight character kerning
\% and show it convex - top arc
/font0 /Helvetica-Bold 1.2 gonzofont
font0
006.2 (Schizophrenic's International) karcjustify
\% show it concave - bottom arc
/arckern 0.08 def
00-7 (Convention 1989-1990) karcjustify
/cstretch 0.02 def /sstretch 0.02 def
/font1 /Helvetica-Narrow-Bold [7 00010000 ] gonzofont
/font3 /Helvetica-Narrow-Bold 1.2 gonzofont
/font2 /Helvetica-Narrow 1 gonzofont
/yinc 2 def
0 setgray
03.1 (|3HI AND HELLO) cc
01.9 (|3OUR NAMES ARE) cc

0-1.4 (|2and) cc
line1 $\%$ the two write-your-name lines

## ASSIGNMENT 12: Design a badge or other arcjustify project and at least one bumpersticker

$-4-0.5 \mathrm{mt} 8 \mathrm{r}$ $-3-3.5 \mathrm{mt} 6 \mathrm{r}$ grestore \} def
5218 badge $\%$ this draws the badges 2518 badge $\%$ on the page
1 copies showpage quit

## Auto-name Badge Printing

## gutility begin

printerror
nuisance begin
gonzo begin
\% define a step and repeat
\% proc for 12 badges per page
/stepnrptparams 40 dict def
stepnrptparams begin
/12badges [3 4192.5192 .592 .59020 false false] def end
\% note that gonzo utilities dictionaries were opened before
\% the stepandrepeat dictionary on the template file - be
\% sure to append the auto label file to the end of the
\% step and repeat template
\% Here is some badge art ...

/badge \{save /snapb exch def
/showthegrid false def
201510 setgrid
showthegrid $\{5776$ showgrid $\}$ if
0 setlinewidth
009.50360 arc stroke $\%$ the actual badge diameter
line3
007.50360 arc stroke $\%$ the outside printed circle
line 1
005.70360 arc $\quad \%$ this is the inside area
stroke
\%show it convex
/arckern 0.03 def $\quad$ \% slight character kerning
/font0 /Helvetica-Bold 1.2 gonzofont
font0
006.2 (Schizophrenic's International) karcjustify
\%show it concave
/arckern 0.08 def
00-7 (Convention 1989-1990) karcjustify
/cstretch 0.02 def /sstretch 0.02 def
/font1 /Helvetica-Narrow-Bold [7 001000 0] gonzofont
/font3 /Helvetica-Narrow-Bold 1.2 gonzofont
/font2 /Helvetica-Narrow 1 gonzofont
/yinc 2 def
0 setgray
03.1 (|3HI AND HELLO) cc
01.9 (|3OUR NAMES ARE) cc
$0-1.4$ (|2and) cc
line $1 \quad \%$ the two write-your-name lines
$-4-0.5 \mathrm{mt} 8 \mathrm{r}$
$-3-3.5 \mathrm{mt} 6 \mathrm{r}$
snapb restore \} def
/font4 /Helvetica-Narrow-Bold 12 gonzofont
/xpos 20 def $\%$ left margin of main address
/ypos 11 def $\%$ base position of top address line
/yinc 14 def $\%$ spacing of main address
/repeatproc \{
srfile length 1 sub runnum lt \{/quickexit true def exit\} if
badge
gsave
srfile runnum get striplines
grestore
\} def
/srfile [
(Aaron A. Aardvark)
(Boyd B. Benson)
(Clyde C. Calhoun)
(Darryl. D. Doldrum)
(Eggbert E. Evans)
(Frank F. Fairmont)
(Gertrude G. Gregg)
(Harriet H. Helespont)
(Isolda I. Igg)
] def
/runnum 0 def
/customdata true def
(12badges) stepandrepeat
quit

## Three Large Bumperstickers

gutility begin
printerror
nuisance begin
gonzo begin
/showbumpgrid false def
\% This makes sure your bumpersticker formats are in step
\% and repeat ...
/stepnrptparams 40 dict def
stepnrptparams begin
/smallbumper [2 1027072403020 true false] def
/medbumper [15585 144203020 true false] def
/bigbumpstick [1 379219501540 true true] def end
/mybumper \{
20710 setgrid
showbumpgrid $\{7518$ showgrid $\}$ if
/cstretch 0.02 def /sstretch 0.2 def
$/$ kern 0.7 def $\%$ note $\mid \mathrm{k}$ gives 7 points of kerning
/font1/Palatino-BoldItalic [7.5 00012000 ] gonzofont
37.55 .5 (This T|koo Shall P|kass) cc

0075181 roundbox line3 stroke
\} def
/repeatproc \{mybumper\} def
(bigbumpstick) stepandrepeat
quit

## Five Medium Bumperstickers

gutility begin
printerror
nuisance begin
gonzo begin
/showbumpgrid false def
/stepnrptparams 40 dict def stepnrptparams begin
/smallbumper [2 1027072403020 true false] def /medbumper [1 55585144203020 true false] def /bigbumpstick [1 37922050040 true true] def end
\% here is your bumpersticker proc

# This Too Shall Pass 

# This Too Shall Pass 

# I Hate BUMPERSTICKERS 

# I Hate <br> <br> BUMPERSTICKERS 

 <br> <br> BUMPERSTICKERS}

# I Hate <br> BUMPERSTICKERS 

# I Hate <br> BUMPERSTICKERS 

# I Hate <br> BUMPERSTICKERS 

## Do Not Read This Sign!

## Do Not Read This Sign!

Do Not Read This Sign!

## Do Not Read This Sign!

## Do Not Read This Sign!

Do Not Read This Sign!

## Do Not Read This Sign!

## Do Not Read This Sign!

Do Not Read This Sign!
Do Not Read This Sign!
/mybumper \{
01.510 setgrid showbumpgrid $\{5714$ showgrid $\}$ if
/cstretch 0.02 def /sstretch 0.02 def /yinc 5 def
/font 1 /Helvetica-Narrow-Bold 4 gonzofont
/font2 /AvantGarde-Demi 5 gonzofont
288 (|1I Hate
|2BUMPERSTICKERS) cc
bestgray
0.50 .556130 .5 roundbox
$\left[\begin{array}{llll}1 & 0 & 0.55 & 0.8\end{array}\right]$ superstroke \} def
/repeatproc \{mybumper\} def
(medbumper) stepandrepeat
quit

## Ten Small Bumperstickers

gutility begin
nuisance begin
printerror
gonzo begin
/showbumpgrid false def
/stepnrptparams 40 dict def
stepnrptparams begin
/babybumper [2 1027072203520 true false] def /smallbumper [1 1058572203020 true false] def /medbumper [15585 144203020 true false] def /bigbumpstick [137922050040 true true] def end
\% here is your bumpersticker proc
/mybumper \{
0010 setgrid
showbumpgrid $\{566$ showgrid $\}$ if
/cstretch 0.02 def /sstretch 0.02 def
/font 1 /Helvetica-Narrow-Bold 5 gonzofont
/font2 /AvantGarde-Demi [4 0005000 ] gonzofont
font1
281.4 (Do Not Read This Sign!) cc
line 100 mt 6 u 56 r 6 d 56 l \} def
/repeatproc \{mybumper\} def
(smallbumper) stepandrepeat quit

## New PostScript Commands

## Gonzo Commands

| arckern | defines the amount of kern between <br> arced characters <br> defines additional kern needed <br> between specific arced characters <br> defines the character used to call the |
| :--- | :--- |
| customkern | custom kern |

karcjustify calls the arc justified text

## New Stepandrepeat Commands

babybumper bigbumpstick medbumper smallbumper 12badges
does 20 very small bumperstickers does 3 large bumperstickers does 5 medium bumperstickers does 10 small bumperstickers does 12 badges per page

## On Your Own

Do Blue Book page 163, Program 10/Circular Text and page 167, Program 11/Text Along an Arbitrary Path.

## BADGE KITS \& SUPPLIES RESOURCES

| Badge-A-Minit | Super Button \& Badge |
| :--- | :--- |
| 348 North 30th Road | 2338 West Burnham Street |
| LaSalle, IL 61301 | Milwaukee, WI 52304 |
| (800) 223-4103 | (800) 328-8272 |
| Ribbonmasters, Inc |  |
| PO Box 610 | 784 Memorial Drive |
| Dundee, OR 97115 <br> (800) 547-9676 | Cambridge, MA 02139 |



Reverse Printing

Shows examples of font matrix change to print upside down, reversed for $t$-shirts and window decals, and negative (white on black) for rubberstamps and signs.

## Printing Upside Down

gutility begin
nuisance begin
printerror
gonzo begin
/showthegrid false def
landscape
202010 setgrid
showthegrid $\{5778$ showgrid $\}$ if
/cstretch 0.02 def /sstretch 0.02 def
/font1 /ZapfChancery-MediumItalic 15 gonzofont
\% a negative height upsidedowns the characters /font2 /ZapfChancery-MediumItalic $\left[\begin{array}{cccccc}15 & 0 & 0 & -15 & 0 & 0\end{array}\right]$ gonzofont
gonzo begin
gutility begin
printerror
nuisance begin

| \% blackflash | \% activate for final copy |
| :--- | :--- |
| $\%$ manual | $\%$ |

\% here is a signature ....
/dianesignature \{save /snapd exch def
\% curvetrace D
[4.5 4.9 180 $2.52 .2-120 \quad 11160-.32 .680 \quad 13.2 .30$
$2.52-50 \quad 4.91 .240$
5.2 4.9-130 5.92 .80 8 3-10] curvetrace
0.2 setlinewidth 1 setlinejoin 1 setlinecap stroke
\%curvetrace iane
$\left[\begin{array}{llllll}6.4 & 1.2 & -60 & 8 & 1.2 & 30\end{array}\right.$
$\begin{array}{llllllll}9.1 & 2.8 & -110 & 8.5 & 1.7 & -110 & 9 & 1.1\end{array}-30 \quad 10.92 .260$
$\begin{array}{llllllllllllllllllll}12.8 & 2.5 & -60 & 12.8 & 2.5 & 120 & 10.9 & 2.2 & -120 & 11 & 1.3 & -60\end{array}$
$121.340 \quad 12.8 \quad 2.5-120 \quad 12.41 .8-9013110$
$14.51 .940 \quad 162.6-30 \quad 161-120 \quad 1616016.5240$
$\begin{array}{llllllllll}17 & 2.5 & 20 & 18 & 2.2 & -100 & 18 & 1.5 & -100 & 20.2 \\ 1.3 & 40\end{array}$
37.530 (|1Yodar Kritch) cc
37.530 (|2Yodar Kritch) cc
showpage quit
Reverse Printing
gutility begin
nuisance begin
printerror
gonzo begin
/showthegrid false def
landscape
202010 setgrid
showthegrid $\{5778$ showgrid $\}$ if
\% a negative width reverses the lettering.
/cstretch 0.02 def /sstretch 0.02 def
/font0 /Helvetica-Bold [-9 0009000 ] gonzofont
/yinc 12 def
font0
3850 (MY OTHER BODY
IS IN THE SHOP) cc
showpage quit

## Negative Printing

\% Makes up a master negative for rubber stamp production

ASSIGNMENT 13: Design a T-shirt and rubberstamp or window decal.
$\begin{array}{llllll}20.7 & 2.5 & 120 & 20.2 & 2.5 & -120\end{array}$ $20.2 \quad 1.3$-30 23.52 .260 ] curvetrace 0.2 setlinewidth 1 setlinejoin 1 setlinecap stroke
snapd restore \} def
\% defines one negative /firstset \{save /snapf exch def
18547010 setgrid
2530 showgrid
\% define and fill a black block
$-1-1 \mathrm{mt} 032$ rlineto 270 rlineto $0-32$ rlineto closepath black fill
nuisance begin
negative $\%$ this makes black $=$ white and vice versa
\% a border
0.5 setlinewidth 1 setlinecap

00 mt 30 u 25 r 30 d 251 stroke
/cstretch 0.05 def /sstretch 0.05 def
/font1 /Helvetica-Narrow-Bold 1.2 gonzofont
/font2 /ZapfChancery-MediumItalic 1.6 gonzofont
/font3 /ZapfChancery-MediumItalic 1.6 gonzofont
/font4 /Palatino-BoldItalic 0.8 gonzofont
/font5 /Palatino-BoldItalic 1 gonzofont
/font6 /Helvetica-Bold 1.4 gonzofont


| T-SHIRT TRANSFER RESOURCES |  |
| :--- | :--- |
| Black Lightning | Sax Arts \& Crafts |
| Riddle Pond Road | PO Box 51710 |
| West Topsham, VT 05086 | New Berlin WI 53151 |
| (800) BLACK99 | (800) 323-0388 |
| Norton Products | Transfer Magic |
| Box 2012 | 130 Grand Street |
| New Rochelle, NY 10802 | Carlstadt, NJ 07072 |
|  | (201) 935-9005 |

/font8 /ZapfDingbats [6 000600 0] gonzofont
/font9 /ZapfDingbats [-2 0002000 ] gonzofont
0-5 translate
/yinc 1.4 def
232 (|2Jocelyn Susan Nelson) cl
229
(|1Dorothea B Riley
2504 16th Street
Wittford, AZ 85964) cl
/yinc 1.6 def
724 (|3photo by
Diane Dobbins) cc
\% combining a bunch on one liners
/yinc 1.4 def
220 (|6Econobuy Food and Drug
|4Without prejudice U.C.C. 1-207
Without prejudice AZ 47-2214
|5Without prejudice U.C.C. 1-207
Without prejudice AZ 47-2214) cl
2013 (|8‘) cc
\% translates, rotates and scales a curvetrace signature gsave
-7-750 translate landscape
gsave 927.5 translate 0.4 dup scale dianesignature grestore grestore
snapf restore $\}$ def
firstset $\%$ calls the first negative
\%defines a second negative
/secondset \{save /snapf exch def
landscape
40018510 setgrid
3524 showgrid
\% lays down an entire black block
\%-1 -1 mt 0 27 rlineto 370 rlineto $0-27$ rlineto closepath black fill
nuisance begin
\%negative \% this makes black $=$ white and vice versa
0.5 setlinewidth

00 mt 24 u 35 r 24 d 351 stroke
snapf restore $\}$ def
\%secondset \% calls a second negative
showpage quit

## Gonzo Commands

backwards black blackflash negative white

## On Your Own

Read Blue Book Chapter 9: More Fonts
Collect or design awards, certificates or flyers and simple borders.

## TRADITIONAL PRINTING RESOURCES

\(\left.$$
\begin{array}{ll}\text { Grantham/Polly-Stamp } & \begin{array}{l}\text { Merigraph/RA Stewart } \\
\text { 418 Central Avenue NE }\end{array}
$$ <br>

641 South Palm Unit H\end{array}\right\}\)| East Grand Forks, MI 56721 | La Habra, CA 90631 |
| :--- | :--- |
| (218) 773-0331 | (213) 690-4445 |
|  |  |
| JLS Rubber Stamps | Niji StampLand |
| PO Box 4418 | 235 Valley Drive |
| Redding CA 96099 | Brisbane, CA 94005 |
| (916) 246-4393 | (415) 468-7066 |
| Justrite/Louis Melind | Stamp Magic Systems |
| 5240 Alhambra Avenue | 6012 Jet Port Industrial Blvd |
| Los Angeles, CA 90032 | Tampa, FL 33623 |
| (213) 225-5683 | (800) 237-9106 |
| M\&R Marking Systems |  |
| 69 Myrtle Street |  |
| Cranford, NJ 07016 |  |
| (201) 272-2000 |  |

Jocelyn Susan Deelson
Dorothea B Riley
2504 16th Street
Wittford, AZ 85964
photo by
Diane Dobbins
Econobuy Food and Drug

Without prejudice U.C.C. 1-207

Without prejudice AZ 47-2214
Without prejudice U.C.C. 1-207
Without prejudice AZ 47-2214

## Awards, Certificates, Flyers

## and Other Borders

Awards, certificates, coupons, flyers are just a few of the places where fancy borders are used. Here are a few we have come up with.

## Scroll Bordered Certificate

\% A scroll bordered certificate that looks good on
\% parchment
gutility begin
nuisance begin
printerror
gonzo begin
landscape
/showfullgrid false def
202010 setgrid
showfullgrid $\{7657$ showgrid $\}$ if
\% here are some routines that draw a full sized looping
\% scroll border
/bline \{gsave -0.5 0 moveto $0.3-0.60 .7-0.610$ rcurveto stroke grestore $\}$ def
/bloop \{gsave -0.5 0 moveto - 131300 rcurveto stroke grestore $\}$ def
/bcorner \{gsave 0-0.8 moveto 0.40 .150 .1 0.600 .8 rcurveto -3.8 $1.8-1.8 \quad 3.800$ rcurveto $0.2-0.10 .65-0.40 .80$ rcurveto stroke grestore \} def
/drawscrollborder \{borderlinewidth borderthickness div 0.37 div setlinewidth gsave translate borderthickness .37 mul dup scale 2.25 hloops 1 sub 0.0 mul add 3.853 vloops 1 sub 1 mul add translate bcorner 1.3 0 translate hloops 1 sub \{bloop bline 10 translate \} repeat bloop 0.30 translate -90 rotate bcorner 1.30 translate vloops 1 sub \{bloop bline 10 translate \} repeat bloop 0.30 translate -90 rotate bcorner 1.30 translate hloops 1 sub \{bloop bline 10 translate\} repeat bloop 0.30 translate -90 rotate bcorner 1.30 translate vloops 1 sub \{bloop bline 10 translate\} repeat bloop grestore \} def
\% and here is how you use the border
/borderthickness 5.0 def /borderlinewidth 0.1 def
/hloops 34 def /vloops 25 def
1.50 drawscrollborder
\% some text
/sstretch 0.3 def /cstretch 0.02 def /font0 /Palatino-BoldItalic 3 gonzofont
/font1 /ZapfChancery-MediumItalic [5 00500 0] gonzofont
/yinc 4 def
font0
37.540 (This certificate of appreciation
is reluctantly awarded to ...) cc
font 1
37.528 (Joni L. Greebleknocker) cc
\% this is the "sign here" line
line 1
1726 mt 42 r stroke
\% and here's the rest of the message ...
font0
37.520 (for no apparent reason at all.

She certainly did nothing
whatsoever to deserve it.) cc
showpage quit

## A Simple Motto

> ASSIGNMENT 14: Use any border to create an award, flyer, coupon or other project.
\% A simple notice or motto \% having a single line art \% deco border.
gutility begin nuisance begin printerror gonzo begin landscape
/showfullgrid true def 202010 setgrid showfullgrid $\{7657$ showgrid $\}$ if
/font1 /Bookman-Demi [5.500700] gonzofont \% fairly compressed font

## /yinc 10 def

3836.5 (|1You may touch
the dust ... but please
don't write in it!) cc
\% a $\backslash 274$ is a three dot ... ellipsis
\% The fancy border just consists of two rotated and
\% repeated graphic elements ...
/decoleft \{gsave
black
00 mt 30 rlineto 03 rlineto -30 rlineto closepath fill
white
0.5 setlinewidth 1 setlinecap 1 setlinejoin

11 mt 1 u 2 r stroke
grestore $\}$ def
/decomid \{gsave
black
00 mt 40 rlineto 03 rlineto -4 0 rlineto closepath fill
white
0.5 setlinewidth 1 setlinecap 1 setlinejoin
2.51 mt 1 u 1.5 r stroke
1.51 mt 1 u 1.51 stroke
grestore $\}$ def
/topborder \{
save /snapp exch def
/decoright \{ gsave -1 1 scale decoleft grestore $\}$ def
gsave 3651 translate decomid grestore
051 translate [ $\{00$ decoleft $\} 3.610] \mathrm{xrpt}$
43.60 translate [ $\begin{cases}0 & 0 \\ \text { decoright }\} & 3.610] ~ \mathrm{xrpt}\end{cases}$
snapp restore
\} def
/bottomborder \{
save /snapd exch def
/decoleftdn \{gsave 1-1 scale decoleft grestore\} def /decorightdn $\{$ gsave $-1-1$ scale decoleft grestore $\}$ def /decomiddn \{gsave 1-1 scale decomid grestore\} def
gsave 363 translate decomiddn grestore 03 translate [ $\{00$ decoleftdn $\} 3.610$ ] xrpt 43.60 translate [ $\{00$ decorightdn $\} 3.6$ 10] xrpt
snapd restore \} def
topborder
bottomborder
showpage quit

## Rope-a-Dope

\% Does a fancy rope border that actually ties itself into \% a knot!

SIGNS, DISPLAYS, ARCHIVAL RESOURCES

Fomebords
2211 North Elston Avenue
Chicago, IL 60614
(800) 362-6267

Gaylord
Box 4901
Syracuse, NY 13221
(800) 448-6160

Graphic Dimensions Ltd
41-23 Haight Street
Flushing, NY 11355
(800) 221-0262

Light Impressions
439 Monroe Avenue
Rochester, NY 14607
(800) 828-6216

## Sign Business

1008 Depot Hill Office Park Broomfield, CO 80020 (303) 469-0424

SignCraft
1938 Hill Avenue
Fort Myers, FL 33906 (813) 939-4644

Trovicel/Huls Ameirca 2 Turner Place
Piscataway, NJ 08855
(201) 981-5000
gutility begin
nuisance begin
printerror
gonzo begin
/showthegrid true def
202010 setgrid
showthegrid $\{5778$ showgrid $\}$ if

## \% MY GREAT STUFF GOES HERE

\% \% \% START ROPE BORDER \%\%\%
/showsegrule true def /hdist \{pdis 2 div dup mul zdis 2 div dup mul add sqrt $\}$ def
/hangle \{zdis pdis atan\} def
\% pathtosteparray converts a path $\{$ ang0 ang1 ... angn $\}$ into $\%$ an array $\{\{x a 0$ ya0 xb0 yb0\} $\{x a 1$ ya1 xb1 yb1 $\} \ldots\}$ The \% "a" points are zdis normal "above" path center, while "b" \% points are zdis normal "below" path center.
/pathtosteparray \{mark exch \{/curang exch def currentpoint /yref exch def /xref exch def mark curang hangle add dup cos hdist mul xref add exch sin hdist mul yref add curang hangle sub dup cos hdist mul xref add exch sin hdist mul yref add ] curang cos pdis mul curang sin pdis mul rlineto $\}$ forall ] /edgepointarray exch def \} def
\% drawelement grabs three edgepoint sets and passes them \% on to drawproc
/drawelement \{0 1 edgepointarray length 3 sub \{/aposn exch def edgepointarray aposn 2 add get aload pop /y5 exch def $/ x 5$ exch $\operatorname{def} / \mathrm{y} 4$ exch $\operatorname{def} / \mathrm{x} 4$ exch def edgepointarray aposn 1 add get aload pop $/ \mathrm{y} 3$ exch def $/ \mathrm{x} 3$ exch $\operatorname{def} / \mathrm{y} 2$ exch def /x2 exch def edgepointarray aposn get aload pop $/ y 1$ exch def $/ x 1$ exch def $/ y 0$ exch def $/ x 0$ exch def save /dpsnap exch def drawproc clear dpsnap restore\} for\} def
\% rope 1 builds a rope turn of one-half pdis. 500 max.
\% drawarope automates it.
/half1 $\{\mathrm{x} 2 \mathrm{x} 0$ sub 2 div x 0 add y 2 y 0 sub 2 div y 0 add $\}$ def \%service sub
/half2 $\{\mathrm{x} 4 \mathrm{x} 2$ sub 2 div x 2 add y 4 y 2 sub 2 div y 2 add $\}$ def \%service sub
/rope1 \{newpath 0.5 [x2 y2 half2 x 3 y 3 x 1 y 1 half1 x 2 y 2 ] roundpath showsegrule \{gsave bestgray 0.99 setgray fill grestore 0.167 setlinewidth stroke\}\{newpath\} ifelse\} def
/drawarope $\{/$ drawproc $\{$ rope 1$\}$ def pathtosteparray drawelement \} def
\% hsquareknot draws a horizontal square knot, aided by \% rsqloop1 and 1sqloop1
/rsqloop1 [0 0000000000001530454545301500 $-15-30-45-60-75-90-90-90-105-120-135-150-165$ -180-180 165150135135135150165180180180180 180-165-150-135-135-135] def
/lsqloop1 [180 180180180180180180180180180180 $165150135135135150165180180-165-150-135-120$ $-105-90-90-90-75-60-45-30-1500153045454530$ $1500000-15-30-45-45-45]$ def

## 

You may touch
the dust ... but please
don't write in it!

## 

/hsquareknot \{save /squaresnap exch def currentpoint /yhold exch def /xhold exch def rsqloop1 drawarope save /sssnap exch def xhold 31.5 pdis mul add yhold moveto lsqloop1 drawarope clear sssnap restore /showsegrule \{aposn 1 add dup 8 ge exch 10 le and aposn 1 add dup 23 ge exch 29 le and or aposn 1 add dup 42 ge exch 45 le and or\} def xhold yhold moveto rsqloop1 drawarope clear squaresnap restore $\}$ def
\% border with square knot demo - convert for use.
10645 \{dup mul exch dup mul add 1.0 exch sub\} setscreen bestgray
0.8 setgray $\%$ only for subtle fuzzy effect shown here; \% otherwise 0 setgray
-1.5-1.7 translate \% fudge factor (temporary)
\% special adjustment to position
1010 translate 0.6 dup scale
/pdis 1.3 def
/zdis 2.6 def
1080 moveto hsquareknot
\% to change the number of twists in the rope, the number \% before $\{-90\}$ repeat is down the left side. The number \% before $\{0\}$ repeat is to the bottom right. The number \% before $\{90\}$ repeat is up the right side. The number \% before $\{180\}$ repeat closes the top from the right.
\% the other unrepeated numbers in the array are simply the \% direction the next turn in the rope is to go.
10 pdis 2.5 mul add 80 moveto [180 $180180180-165-150$ $-135-120-105-9050\{-90\}$ repeat $-90-75-60-45-30-15$ $00040\{0\}$ repeat $15304560759050\{90\}$ repeat 90 10512013515016518012 \{180\} repeat] drawarope
\%\%\% END ROPE BORDER \%\%\%
showpage quit

## Character Border

\% Repeats a character in a font to form a border. All characters remain rightside up.
gutility begin
nuisance begin
printerror
gonzo begin
/showthegrid true def
202010 setgrid
showthegrid $\{5778$ showgrid $\}$ if
\% here are the routines for repeating characters for a border
/stringup \{/char exch def \{gsave char show grestore currentpoint vertcharspacing add moveto $\}$ repeat $\}$ def
/stringright \{/char exch def \{gsave char show grestore currentpoint exch horizcharspacing add exch moveto\} repeat $\}$ def
/stringdown \{/char exch def \{gsave char show grestore
currentpoint vertcharspacing sub moveto $\}$ repeat $\}$ def
/stringleft \{/char exch def \{gsave char show grestore currentpoint exch horizcharspacing sub exch moveto\} repeat\} def
\% //// demo - remove or alter before reuse. ////
/font0 /ZapfDingbats [2 $\left.\begin{array}{lllll}0 & 0 & 2 & 0 & 0\end{array}\right]$ gonzofont
/vertcharspacing 2 def
/horizcharspacing 2 def
font0
\% repeats a string of one or more characters to form a fancy
\% border. use -\#repeats- (char)
1010 moveto
20 (") stringup
15 (") stringright
20 (") stringdown
15 (") stringleft
showpage quit

## A Coupon

\% A small art deco border for a coupon or gift certificate.
gonzo begin
gutility begin
printerror
nuisance begin
/logo \{ save
/snap1 exch def
\% your curvetraced logo goes here
snap1
restore \} def
\%///// COUPON /////
20020010 setgrid
\% 3629 showgrid
gsave
212 translate
0.4 setlinewidth 2 setlinecap 0 setlinejoin

00 mt 32 r 15 u 32115 d
0.2 setlinewidth 2 setlinecap 0 setlinejoin
-2 -2 mt 36 r 19 u 36119 d
$-2-2.2 \mathrm{mt} 9.8$ d 36 r 9.8 u
/corner \{
gsave
newpath 0.3 setlinewidth 0 setlinejoin 2 setlinecap
$-1.93 .6 \mathrm{mt} 1.51 .5 \mathrm{rl} 0-2.5 \mathrm{rl} 30 \mathrm{rl} 0-3 \mathrm{rl} 2.50 \mathrm{rl}$
$-1.5-1.5 \mathrm{rl}-2.50 \mathrm{rl} 03 \mathrm{rl}-30 \mathrm{rl} 02.5 \mathrm{rl}$ closepath
gsave white stroke grestore
black fill
grestore
\} def
corner
gsave -11 scale -32 0 translate corner grestore
gsave 1-1 scale 0-15 translate corner grestore gsave -1-1 scale -32-15 translate corner grestore grestore
/cstretch 0.5 def
/font2 /AvantGarde-Demi [1.8 001.400 0] gonzofont
1827.5 (|2COUPON) cc
1810.3 (|2COUPON) cc
18.12527 .5 (|2COUPON) cc
18.12510 .3 (|2COUPON) cc
/cstretch 0.02 def /sstretch 0.05 def
/font3 /Helvetica-Bold 5.6 gonzofont
518.5 (|3\$5) cl
3118.5 (|3\$5) cr
/font1 /Helvetica-Bold 1.1 gonzofont
/overstrikechar (1302) def
/overstrikeht 0.1 def
/yinc 1.5 def
188 (|1Bring this $\$ 5.00$ coupon to COTTON CLOUDS, booth \#1302 \& save $\$ 5.00$ on any yarn purchase.

- Cotton Yarns • Rayon Chenille -
- Cotton/Rayon Variegated Boucle|os •) cc
/yinc 1.2 def
/font4 /Helvetica 0.9 gonzofont
/font5 /Helvetica-Bold 1.3 gonzofont
181.7 (|51-800-322-7888
|4Cotton Clouds 5176 S. 14th Ave, Safford, AZ 85546, USA) cc
gsave 11.2513 .5 translate 0.55 dup scale logo grestore
showpage
quit


## Gonzo Commands

## SCROLL BORDER

drawscrollborder
borderthickness
borderlinewidth
hloops
vloops

## ROPE-A-DOPE

$\left.\left.\begin{array}{ll}\begin{array}{l}\text { drawarope } \\ \text { drawelement }\end{array} & \begin{array}{l}\text { drawarope automates it rope 1 printing } \\ \text { drawelement grabs three edgepoint } \\ \text { sets and passes them on to drawproc } \\ \text { draws a horizontal square knot, aided }\end{array} \\ \text { hsquareknot } & \begin{array}{l}\text { by rsqloop1 and lsqloop1 }\end{array} \\ \text { left }\end{array}\right\} \begin{array}{l}\text { left square knot loop } \\ \text { converts a path }\{\text { ang0 ang1 ... angn }\} \\ \text { into an array \{ \{xa0 ya0 xb0 yb0\} }\end{array}\right\}$

## CHARACTER BORDER

stringup stringright stringdown
stringleft
moves character repeat up left side moves character repeat across top moves character repeat down right side moves character repeat across bottom

## QUADFOLD BORDER

roundpath
superinsidestroke line
defines a path with rounded corners from -radius- [x1 y1 x2 y2...xn yn] note it must begin and end in the center of a line not at a corner defines a non-symmetrical border or
[-widest- -gray-...-narrowest- -gray-] each segment starts from the left edge

## On Your Own

Find examples of columnar forms with both numbers and words.



Bring this $\$ 5.00$ coupon to COTTON CLOUDS, booth \#1302 \& save $\$ 5.00$ on any yarn purchase.

- Cotton Yarns • Rayon Chenille •
- Cotton/Rayon Variegated Bouclés •

1-800-322-7888
Cotton Clouds 5176 S. 14th Ave, Safford, AZ 85546, USA


## Menu Justification,

## Supertabbing

Fancy justification is needed for menu justifying with simple dotted lines, and for more complex justification/font changes in columnar layouts.

## Menu justify

\% Gives you a fast and accurate menu $\qquad$ justify
\% Also includes a simple but stunning border.
\% Here are two needed routines for the menu justify below

## \%\%\% WIDTH CALCULATIONS \%\%\%

\% A new curwide variable lets you calculate the gonzo \% string width independent of printing it. Handy for \% menu justify, etc..
\% Use has to be bracketed with /oktoprint false def \% /oktoadvance false def --- stuff --- and then true. \% Works with any justify mode.
\% make this change to main code so lengths can be \% extracted. Note that roomleft gets flushed at line end.
/menudots (.) def
/menufont $\{$ font 1$\}$ def
/mdoteht 0.3 def
/menudelim ( ) def
/cropleadingspaces true def
\% drawmdots draws a line of menu dots, using plain old \% show
/drawmdots \{ gsave menufont xxm yym moveto txtwide menudots stringwidth pop dup /mdot 1 exch def div floor cvi $\{$ menudots show $\}$ repeat grestore $\}$ def
\% spchomp takes a string and conditionally removes all \% leading spaces, returning the truncated string
/spchomp \{cropleadingspaces \{dup 0 exch \{32 eq \{1 add $\}$ \{exit $\}$ ifelse $\}$ forall $\}$ if exch dup length 2 index sub 3 -1 roll exch getinterval\} def
\% mlineproc takes the mline string and processes it into \% a leading string, the dot row, and a trailing string.

## gonzo begin

/endtheline \{/curwide txtwide roomleft sub def justx cvx exec oktoprint \{printline\} if \} bind def
\% calloutwidth calculates only the width $\%$ of the string, returning it to the top of \% the stack. For consistency with other \% callouts, use 00 (string) cw. This
\% INCLUDES all stretching and font \% changes!
/cw \{save /snapc1 exch def /oktoprint false def /oktoadvance false def /linestring linestring2 def /justx (justL) def 31 roll /ypos exch def /xpos exch def stringgonzo curwide snapc 1 restore $\}$ def end

## \%\% \% MENU JUSTIFY \% \%\%

\% The cm routine takes a leading string and a trailing string \% separated by a delimiter and places a row of
\% CONSTANT WIDTH, PRECISELY SPACED,
\% VERTICALLY ALIGNED and WHOLE dots (or
$\%$ whatever) between the two. It is based on putting down
\% the dots first and ERASING only whole dots that are
\% not wanted.
\% This has been modified specially for a 10X grid

> ASSIGNMENT 15:
> Design a menu or other form using either supertab or menu justification routines.
\% Unused dots are erased \% with logic to insure whole \% dots only. Null strings are \% ignored.
/mlineproc $\{$ mline length 0 gt \{drawmdots mline menudelim search $\{/ l m s t r$ exch def pop spchomp /rmstr exch def $\}$ if gsave 1 setgray xxm yym moveto mdoteht setlinewidth 00 lmstr cw mdot 1 div 10 mul ceiling 10 div mdot 1 mul 0 rlineto stroke xxm txtwide mdot 1 div floor mdot 1 mul add yym moveto 00 rmstr cw mdot 1 div 10 mul ceiling 10 div mdot 1 mul neg 0 rlineto stroke grestore xxm yym lmstr cl xxm txtwide add yym rmstr cr /yym yym yinc sub def $\}$ if $\}$ def
$\% \mathrm{~cm}$ menujustify accepts tabbed string pairs and converts \% them into dotted menu listings.
/cm \{gsave /msg exch def /yym exch def/xxm exch def \{ msg () search $\{/ \mathrm{mline}$ exch def pop /msg exch def mlineproc\} \{/mline exch def mlineproc exit \} ifelse\} loop grestore $\}$ def
\% //// demo - remove or alter before reuse. ///
gutility begin
printerror
nuisance begin
gonzo begin
/showthegrid false def
202010 setgrid
showthegrid $\{5050$ showgrid $\}$ if
\% title fill goes UNDER border
941 mt 5 pu 29 pr 5 pd closepath
bestgray lightgray fill black
\% This is the "magic" border. For other effects, change the $\%$ roundpath radius to $0.01,0.8,1,1.5,2.5,3.5,5$ or 8 . Or \% -2 or -6 (!) DO NOT USE 3.0. Use 2.99 instead.

1 setlinejoin 1 setlinecap
$2.99[201261269999496496464146414938$
$493894194112 \quad 2012]$ roundpath closepath
$\left[\begin{array}{llllllll}0.8 & 0 & 0.5 & 1 & 0.28 & 0 & 0.1 & 1\end{array}\right]$ superstroke
\% this draws the title bar and autoerases the ends
0 setlinejoin 0 setlinecap
0.01[ [9 42 $9413841384238403841 \quad 941940]$
roundpath closepath
$\left[\begin{array}{lllllll}0.8 & 0 & 0.5 & 1 & 0.28 & 0 & 0.1\end{array}\right.$ 1] superstroke
\% set up the menu stuff ...
/txtwide 22 def $\%$ textwidth
/cstretch 0.01 def
/sstretch 0.05 def
/yinc 2.6 def
/font1 /Palatino-Roman 1.2 gonzofont
/font2 /Palatino-Italic 1.2 gonzofont
/font3 /ZapfChancery-MediumItalic 2.5 gonzofont
\% Trick to cure Mitzi's anorexism ...
font 3
23.542 .7 (Mitzi’s Yuppy Fare) cc
23.542 .75 (Mitzi's Yuppy Fare) cc
23.542 .8 (Mitzi’s Yuppy Fare) cc
font 1
12.536 .5 (Knockwurst Ala King
\$3.27
Hot Clam Sundae
Coconut Anchovy Pizza
\$1.15
$\$ 8.35$
Butterscotch Pudding au gratin
Pastrami \& Kiwi Blintz
\$1.25
Sopapillas, Enchilada Style
\$4.50
Grape Chili au jus
\$2.46
Avocado \& Liver Surprise . 15
Chocolate Sushi
$\$ 25.50$ ) cm
showpage quit

## Supertabs

\% Lets you do fancy columns of data in which you can mix \% or match fonts and justification modes.
\% supertab (or cst) for short is an enhancement to the \% gonzo justification routines that let you mix and
\% match justification modes and fonts in tabular data.
\% For instance, your first column could be left justified \% bold Helvetica. Your second column can be centered
\% Revue with extra kerning. Your third column could be \% right justified dollars and cents, and so on. You can \% even have multiple lines within each individual tab \% position, and ordinary multiple-spaced data can be used \% as tab delimiters.
\% One MAJOR use is to convert arbitrary fixed pitch tables \% from ANY source into fully justitied text. Quickly, \% invisibly and automatically.

```
The format is as follows:
    xpos ypos (-col1-delim -col2- delim .... -coln-
        -col1- delim -col2- delim .... -coln-
        -col1- delim -col2- delim .... -coln- ) cst
    A supertab list has to be created first, of form
    /stabs [ [-xoffset1- {justmode1} {customproc1}]
            [ -xoffset2- {justmode2} {customproc2}]
            [-xoffsetn- {justmoden} {customprocn}]] def
```

\% The xoffset value is how far over from the current xpos
\% left margin the justify action is to take place. Note that
\% this is the LEFT edge for left or fill justify, the CENTER \% for center justify, or the RIGHT edge for right justify.
\% The justmode value is the callout justification mode that $\%$ is to be used for the tabbed substring. Use $\mathrm{cl}=$ callout \% left, cc = callout center, cr = callout right, cf = callout $\%$ fill, etc.
\% The customproc is anything you want done immediately \% before showing the tab substring. The most common use $\%$ would be changing a font as in $\{$ font 6$\}$, etc.
\% Any number of EXTRA spaces can exist between input \% tab entries if the -cropleadingspaces- boolean shown \% below is true.
\% Note: For intentionally blank lines, be sure to include a \% few spaces. If your -stabdelimiter- is two spaces, be sure \% to ALWAYS have at least two spaces between columns \% and NEVER double space within a column.
\% stabdelimiter decides when to move you over to the next \% column. Popular values would be two or more spaces for \% dealing with imported listings, or an actual [I] tab
/stabdelimiter ( ) def \% two spaces means to tab over
\% stabnewline decides when to move you down to the next
\% row. While a simple carriage return works well,
\% something fancier is needed if the individual tabs also \% have carriage returns in them.
/stabnewline ( n ) de\% return means start next line
\% cropleadingspaces is handy whenever you are adapting \% preformatted fixed pitch data to full proportional
\% PostScript ...
\% inactive as default
/cropleadingspaces false def
\% ytabadjust provides for extra room between lines on \% multiple line tab entries when needed ...
/ytabadjust 0 def $\%$ default
\% cst is the main callout supertab routine. It grabs a long
\% string and breaks that string down into individual tab
\% elements and then formats them.
/cst \{/cstabstring exch def /ypos exch def /xpos exch def mark \{cstabstring stabnewline search \{exch pop exch /cstabstring exch def dup length 1 le \{pop\} if \} \{dup length 0 le $\{p o p\}$ if exit \} ifelse $\}$ loop] save /cstsnap exch def /cstline exch def 01 cstline length 1 sub $\{$ cstline exch get /cstchomp exch def mark \{cstchomp stabdelimiter search \{exch pop exch /cstchomp exch def dup length 0 le \{pop\} if\} \{dup length 1 le \{pop\} if exit\} ifelse\} loop] /cstlarray exch def 01 cstlarray length 1 sub \{ /posn exch def save /ctsnap exch def stabs dup length 1 sub dup posn ge \{pop posn \} if get 0 get xpos add ypos stabs posn get 2 get cvx exec cstlarray posn get spchomp stabs posn get 1 get cvx exec ctsnap restore $\}$ for /ypos ypos yinc sub ytabadjust sub def \} for ypos cstsnap restore /ypos exch def\} def
\% spchomp takes a string and conditionally removes all \% leading spaces, returning the truncated string
/spchomp \{cropleadingspaces \{dup 0 exch \{32 eq \{1 add $\}$ \{exit \} ifelse \} forall exch dup length 2 index sub 3-1 roll exch getinterval\} if \} def
\% //// demos - remove or alter before reuse. ////
gutility begin
printerror
nuisance begin
gonzo begin
/font 1 /Helvetica 9 gonzofont
/font2 /Helvetica-BoldOblique 9 gonzofont
/font3 /Helvetica-Bold 9 gonzofont
\% this first demo combines left, center and right \% justifications...
\% create a supertab dictionary. each element of form
\% [ -xpos- $\{$ justmode $\}$ \{otherstuff $\}$ ]
/stabs
[
[0 \{cl\} \{font 1$\}]$
[140 \{cc\} \{font2\}]
[250 \{cr\} \{font3\}]
] def
\% marker to move to next tab position
/stabdelimiter ( ) def
\% marker to move to next line
/stabnewline ( nn ) def
\% get rid of leading spaces?
/cropleadingspaces true def
\% The data below is of form xpos ypos (tabbed data) cst.
\% Be sure to use several spaces on any intentionally blank
\% lines and to provide a minimum of TWO spaces between \% columns...

200400 (

| Aaron A Aardvark | member | $\$ 123.45$ |
| :--- | :---: | :---: |
| Boyd B. Bismark | associate | $\$ 92384.22$ |
| Clarence C. Calhoun | director | $\$ 5.83$ |
| Doyle D. Dogg | student | $\$ 29.86) \mathrm{cst}$ |

\% this second demo shows how to use multi row tabular \% callouts ...

851103301114 roundbox $\%$ define a rounded border 2 setlinewidth stroke $\quad \%$ and draw it 0.5 setlinewidth $\quad \%$ add a double hairline

092 mt 330 r
094 mt 330 r
/stabs $\quad \%$ define your supertabs array
[
[0 \{cl\} \{font1\}]
[150 \{cc\} \{font2\}]
[300 \{cr\} \{font3/yinc 15 def \}] $\%$ procs do lots of stuff ] $\operatorname{def}$
/stabdelimiter (\$\$\n) def $\quad$ \% goes between entries
/stabnewline (!!\n) def $\quad$ \% goes between lines
/cropleadingspaces true def $\%$ get rid of leading spaces
/ytabadjust 30 def $\quad$ \% extra spacing adjust

1575 (This first multiple
line |3submessage| 1 is
flush left and font 1
\$\$
centered stuff \#1
\$
Right \#1 has been
spaced weirdly
!!
This second multiple
line |3submessage| 1 is
flush left and font1
\$\$
centered stuff \#2
\$\$
Right \#2 has been
spaced weirdly)cst
\% This one shows you how to center all of the data in all of \% the columns and gives you one way to handle any
\% headers ...
/stabs
[
[30 \{cc \} \{\}]
[150 \{cc\} \{\}]
[260 \{cc \} \{\}]
] def

## Example 1 - left, center \& right justify

| WHOOPIE | GOLLY | WOWIEGEE |
| :--- | :---: | ---: |
| This first multiple <br> line submessage is <br> flush left and font1 | centered stuff \#1 | Right \#1 has been <br> spaced wierdly |
| This second multiple <br> line submessage is <br> flush left and font1 | centered stuff \#2 | Right \#2 has been <br> spaced wierdly |

/stabdelimiter ( ) def
/stabnewline (ln) def
font1
1598 (WHOOPIE GOLLY WOWIEGEE) cst
showpage quit

## Gonzo Commands

MENU JUSTIFY

| cm | menujustify - accepts tabbed string <br> pairs, converts into dotted menu <br> listings |
| :--- | :--- |
| cropleadingspaces | boolean - useful when adapting <br> preformatted fixed pitch data to <br> full proportional PostScript <br> calculates the gonzo string width <br> independent of printing it <br> calloutwidth - calculates only the <br> width of the string, returning |
| curwide | it to the top of the stack. <br> draws a line of menu dots, using show |
| cw | command <br> height of dot used <br> character used for dots <br> default dot font |
| deawmdots | delimiter to separate columns <br> processes the mline string into a |
| menudots | leading string, the dot row and a <br> trailing string, erases unused dots. |
| menudentim | takes a string and conditionally |
| mlineproc | removes all leading spaces, returning <br> the truncated string |
| spchomp |  |

## SUPERTABS

| cst | main callout supertab routine. grabs a <br> long string and breaks it into <br> individual tab elements and <br> formats them. <br> decides when to move over to the next <br> column. Popular values would be two <br> or more spaces for dealing with |
| :--- | :--- |
| stabdelimiter |  |

## MENU COVER RESOURCES

## American Thermoplastic Co

622 Second Avenue
Pittsburgh, PA 15219
(800) 245-6600

Menu Graphics
3133 Chester Avenue
Cleveland, OH 44114
(80) 321-9482
H. Risch, Inc

PO Box 567
Rochester, NY 14602
(716) 232-6938
imported listings or an actual [I] tab
stabnewline
stabs
ytabadjust decides when to move down to the next line
defines the supertab array provides for extra room between lines on multiple line tab entries when needed

## On Your Own

Collect and bring examples of outlined fonts or areas filled with words, other characters, or graphics.


# project 

## Large Letters, Clipping,

## and Font Path Capturing

There are times when single letters are needed for stencils, posters, etc., or when character paths can be used for logos, letterheads, or as outlined letters to be used as a path for a repeated word or group of words. Patterns can also be repeated and clipped inside a curvetraced element of design and dashes can follow a line or curvetraced path for cutout characters.

## Big Stencils

\% Prints a message as one-per-page large outline letters for $\%$ use in stencils, floats, storefront signs, houseletters, etc.
gutility begin
nuisance begin printerror
\% turn on the gonzo utilities
\% turn on the nuisance commands
$\%$ turn on the printing error trapper
\% This strange and wondrous proc does all the work ...
/makebigletters \{fonttouse findfont [letterheight 00 letterwidth 00 ] makefont setfont $\{$ str exch 0 exch put str dup stringwidth pop 8.572 mul exch sub 2 div 1172 mul letterheight 0.85 mul sub moveto false charpath stroke showpage $\}$ forall\} def
/inches $\{72 \mathrm{mul}\}$ def $\%$ work in inches
$/ \mathrm{str}(\mathrm{X})$ def $\%$ a single character string
\% From top of "W" to bottom of "g" /letterheight 9 inches def \% Usually same as letterheight /letterwidth 9 inches def
\% watch the spelling!
/fonttouse \{/NewCenturySchlbk-Bold \} def
(BIG) makebigletters \% your message

## quit

## Capturing a Font Character Path

\% There are lots of exciting and unique new features to
\% PostScript Level 2 that makes this a "must have"
\% upgrade. But by far the most useful (and long overdue) \% feature of Level 2 is that nearly all font paths are fully \% open and unlocked. And thus easily captured.
\% Font paths are simply and quickly grabbable on the fly. \% Besides the obvious use of creating outline characters, \% you can use captured font paths for composite \% characters, to eliminate the need for font downloads on a \% logo or letterhead, to do the non-linear transformations
\% needed for perspective, 3-D, star wars and other \% distorted lettering, and to capture letters for vinyl sign \% cutters and wood routers.
\% Because of the **invalidaccess** lockout on earlier \% versions of Post Script, earlier font path grabbing was $\%$ complex and tricky. With Level 2, you simply grab the \% path on the fly.
\% Here are the bare fundamentals of font path grabbing; \% see the GEnie PSRT library files for detailed examples \% of the incredible stuff you can do with grabbed paths.
\% THE ROUTINES SHOWN HERE WORK ONLY ON
\% POSTSCRIPT LEVEL TWO. But you can easily take
\% the resultant paths and use them on any genuine
\% Adobe PostScript printer of any level.
\% First, define your font. If you are going to work with the \% usual font dictionaries, you may want to make it 1000 \% points high. Otherwise, pick your final size...
/NewCenturySchlbk-BoldItalic findfont [500 0045000 0) makefont setfont

\% Then select a letter and just \% grab your fontpath...
00 moveto (K) false charpath
\% This now creates an \% unlocked outline path. If \% you want to, you can \% combine the path with \% other design elements.
\% Here is how to convert the path to an array. An array is \% chosen because it is easier to report back to your host.
mark
\{/moveto cvx $\}$
\{/lineto cvx \}
\{/curveto cvx $\}$
\{/closepath cvx $\}$
pathforall
] loutlinepath exch def
\% And it is that simple! If you want to do non-linear
\% transformations or otherwise leap tall buildings in a
\% single bound, you just alter the four procs needed by
\% pathforall.
\% Here is how you report your path back to your host for
\% permanent recording. Naturally, you ARE using full
\% two-way host recordable comm or you absolutely,

\% positively, emphatically should not be here.
/stall $\{\{37$ sin pop $\}$ repeat $\}$ def $\%$ useful delay proc
2500 stall \% optional host turnaround
delay
outlinepath $\{==$ flush 50 stall $\}$ forall \% optional internal \% character delay
\% Here is your expected host returned data for our \% example...

```
% 161.0 -0.119995 moveto
% 165.5 23.73 lineto
% 155.5 23.73 lineto
% 140.0
% 118.0
% 137.5 109.23 lineto
% 181.0 145.23 lineto
% 232.999 45.78 lineto
% 234.499 43.08 237.999 35.88 237.999 33.18 curveto
% 237.999 30.03 233.999 25.08 230.499 24.18 curveto
% 217.999 21.93 205.0 22.83 191.5 23.73 curveto
% 187.0 -0.119995 lineto
% 373.999 -0.119995 lineto
% 378.499 23.73 lineto
% 369.499 23.73 lineto
% 342.499 23.73 332.999 25.53 321.499 48.48 curveto
% 244.999 196.98 lineto
% 332.999 268.98 lineto
% 346.999280.23 353.999286.08 371.499 292.83 curveto
% 383.999297.78 397.999 300.93 411.499 300.93 curveto
%415.999 324.78 lineto
% 267.999 324.78 lineto
% 263.499 300.93 lineto
% 271.499 300.93 lineto
% 281.499301.38301.999303.18 301.999 289.68 curveto
% 301.999283.83 300.499282.03295.999277.98 curveto
% 287.499 269.88 lineto
% 152.0 155.58 lineto
% 151.0 156.48 lineto
```


## CAPTURING FONT PATHS ON THE MAC

1 open Word or Works
open fntpath2.ps
make changes to font and desired letter(s)
saveas fntpath2.ps?
close file
(it is not necessary to close program on System 7)
2 open LaserWriter Utility
pull down on Utilities to:
Download PostScript File
open (double click) fntpath2.ps?
save as PostScript Log. 1
3 open PostScript Log. 1 in Word/Works
"change" control characters (squares) to spaces
define your file
call your file
add gonzo opening stuff and showpage quit saveas yournewfilename print using font downloader
\% $181.5 \quad 258.63$ lineto
\% 185.0 $271.68 \quad 188.5 \quad 284.73 \quad 199.0 \quad 294.63$ curveto
\% 208.999304 .08226 .499300 .93240 .499300 .93 curveto
\% 244.999324 .78 lineto
\% 57.4998324 .78 lineto
\% 52.9998300 .93 lineto
\% 67.4998300 .93 lineto
\% 76.4998301 .3885 .4998302 .2893 .4998299 .13 curveto
\% $97.9998297 .33102 .0 \quad 293.28 \quad 102.0 \quad 288.78$ curveto
\% 102.0 $284.7399 .4998 \quad 277.53 \quad 98.4997 \quad 273.48$ curveto
\% 34.999957 .03 lineto
\% $31.4999 \quad 45.78 \quad 28.9999 \quad 30.03 \quad 15.0 \quad 25.53$ curveto
\% $5.49997 \quad 22.38 \quad-5.5 \quad 23.73-16.0 \quad 23.73$ curveto
\%-20.5 -0.119995 lineto closepath
\% Note that the last moveto is really your x and y character \% spacing to the next character.
\% You can obviously edit the host returned and recorded \% data to a form of
\% /s \{lots of movetos, linetos, etc...\} def
\% Note that this form is MUCH shorter than towing an \% entire font around if you just need a few weird letters for \% a logo or whatever.

## \% SOME POSSIBLE LEVEL 1 PROBLEMS:

\% Yes, you can use full messages instead of individual \% letters on Level 2. But for Level 1 compatibility, LIMIT \% YOUR FONT GRABS TO INDIVIDUAL SINGLE \% CHARACTERS.
\% PostScript Level 2 dynamically allocates its memory, so \% there is no sane limit to the amount of stuff you can put \% on your stack at one time.
\% But PostScript Level 1 only allows 512 characters on the $\%$ stack at once. If your font path exceeds 450 or so \% characters, you may get a stack overflow on Level 1.
\% Besides an obvious counting, here is another way you \% can check the length of your captured font path...
\% outlinepath length $==$ flush
\% In this example, a "153" should have been returned to \% your host screen (You ARE using two-way comm, of \% course). Which tells us that this path is "level 1 safe".

If your captured font path is too long, change it to this \% form...

```
/mycapturepath {
    {400 or fewer stack items } cvx
    {400 or fewer stack items} cvx
    {400 or fewer stack items} cvx
    {400 or fewer stack items} cvx
    } def
```

\% This should run just fine on any Level 1 or Level 2 \% machine.

## Clipping in a Character Path

\% Uses the captured character path, strokes and clips \% around it leaving word(s) inside the outline.

gutility begin
nuisance begin
printerror
gonzo begin
/bigk \{
$161.0-0.119995$ moveto $165.5 \quad 23.73$ lineto 155.5 23.73 lineto $\begin{array}{lllllll}140.0 & 23.73 & 118.0 & 20.58 & 118.0 & 40.83\end{array}$ curveto $118.0 \quad 46.23121 .0 \quad 53.43122 .5 \quad 58.38$ curveto 137.5109 .23 lineto $181.0 \quad 145.23$ lineto 232.99945 .78 $\begin{array}{llllllll}\text { lineto } & 234.499 & 43.08 & 237.999 & 35.88 & 237.999 & 33.18\end{array}$ $\begin{array}{llllllll}\text { curveto } & 237.999 & 30.03 & 233.999 & 25.08 & 230.499 & 24.18\end{array}$ curveto $217.999 \quad 21.93 \quad 205.0 \quad 22.83 \quad 191.5 \quad 23.73$ curveto $187.0-0.119995$ lineto $373.999-0.119995$ lineto $378.499 \quad 23.73$ lineto $369.499 \quad 23.73$ lineto 342.499 $\begin{array}{llllll}23.73 & 332.999 & 25.53 & 321.499 & 48.48 & \text { curveto } 244.999\end{array}$ 196.98 lineto 332.999268 .98 lineto 346.999280 .23 353.999286 .08371 .499292 .83 curveto 383.999297 .78 397.999300 .93411 .499300 .93 curveto 415.999324 .78 lineto 267.999324 .78 lineto 263.499300 .93 lineto 271.499300 .93 lineto $281.499301 .38 \quad 301.999303 .18$ 301.999289 .68 curveto 301.999283 .83300 .499282 .03 295.999277 .98 curveto 287.499269 .88 lineto 152.0 155.58 lineto $151.0 \quad 156.48$ lineto 181.5258 .63 lineto $\begin{array}{lllllll}185.0 & 271.68 & 188.5 & 284.73 & 199.0 & 294.63 & \text { curveto }\end{array}$ $208.999304 .08 \quad 226.499300 .93 \quad 240.499300 .93$ curveto 244.999324 .78 lineto 57.4998324 .78 lineto 52.9998 300.93 lineto 67.4998300 .93 lineto 76.4998301 .38 $85.4998302 .28 \quad 93.4998 \quad 299.13$ curveto 97.9998297 .33 $\begin{array}{lllllllll}102.0 & 293.28 & 102.0 & 288.78 & \text { curveto } & 102.0 & 284.73\end{array}$ $99.4998 \quad 277.53 \quad 98.4997 \quad 273.48$ curveto 34.999957 .03 lineto $31.4999 \quad 45.78 \quad 28.9999 \quad 30.03 \quad 15.0 \quad 25.53$ curveto $\begin{array}{lllllll}5.49997 & 22.38 & -5.5 & 23.73 & -16.0 & 23.73 & \text { curveto }\end{array}-20.5$ -0.119995 lineto closepath
\} def
/font0 /Helvetica-Bold 15 gonzofont
100250 translate $\quad$ \%put character where you want it
bigk gsave stroke grestore $\%$ call and stroke character
clip $\quad \%$ clip character outline
\% the rest of the file form is as follows -
\% number of vertical repeats
\% \{xstart ystart mt - in relation to the translate
\% \#horizontal repeats $\{($ string ) call string $\}$ repeat string
\% \#horizontal spacing \#vert spacing translate\} repeat
\% spacing
$40\{-100745 \mathrm{mt}$
60 \{(Kathy ) show $\}$ repeat
0-20 translate \} repeat
showpage
quit

## Clipping in a Curvetrace

\% To place a simple pattern inside a portion of curvetraced \% art draw your path then clip it. Note the path and the clip ALWAYS come before the pattern.
gonzo begin
gutility begin
printerror
nuisance begin
202010 setgrid 5050 showgrid
/hatching \{gsave
0.1 setlinewidth
\%blackwing outline
[34.4 25.8-150 \%a
2225150 \%b
17.753290 \%c
22.142 .645
22.142 .615 \%d
$3043.90 \quad$ \%e
36.643 .4 - 15
36.6 43.4-45 \%f
34.4 25.8-150 \%a
] closepath curvetrace clip
\% the actual pattern area
/vhatching \{34.4 25.8 mt 018 rl stroke $\}$ def
[ $\{00 \mathrm{mt}$ vhatching $\} 0.87] \mathrm{xrpt}$
$/$ hhatching $\{34.3526 .8 \mathrm{mt} 6-0.3 \mathrm{rl}$ stroke $\}$ def
[ $\begin{cases}0 & 0 \mathrm{mt} \text { hhatching }\} 0.824] \text { yrpt }\end{cases}$
grestore $\}$ def
hatching
showpage quit

## PostScript Operators

add tred book pg 363
charpath
clip
clippath
cvx
dup
eoclip
findfont
forall
initclip
makefont
mark
mul
pathforall
pop
put
scalefont
setdash
setfont
show
$\sin$
stringwidth
sub

## Gonzo Commands

cen center - use when you are doing several groups of center justified text
fonttouse
red book pg 372
red book pg 374
red book pg 374
red book pg 396
red book pg 404
red book pg 406 - (red book section 4.5)
red book pg 418
red book pg 423
red book pg 437
red book pg 452
red book pg 454
red book pg 456
red book pg 462
red book pg 463
red book pg 466
red book pg 488
red book pg 500
red book pg 503
red book pg 520
red book pg 522
red book pg 528
red book pg 529 font used for big stencil letters

\(\left.$$
\begin{array}{ll}\text { letterheight } & \begin{array}{l}\text { height in inches for big stencil letters } \\
\text { width in inches for big stencil letters - } \\
\text { letterwidth }\end{array}
$$ <br>
usually the same as the height <br>
command to actually create separate <br>

letters on separate sheets of paper\end{array}\right\}\)| internal delay character |
| :--- |
| outlinepath |
| stall |
| str |

## On Your Own

Find samples of sequentially numbered tickets, tags, etc.
Review setdash in Red Book, page 500.
Do: Filling an Area with a Pattern, Program 15, pg 187; Making a Poster, Program 13, pg 179; and Making an Outline Font, Program 16, pg 199 in the Blue Book.


## Tags, Tear-offs,

## Tents, \& Tickets

There is frequent need for autonumbered tickets, tags, tents and a way to tear-off a phone number from a notice or poster. The doorknob hanger prints a pair of identical tags using the BLANKS USA die cut forms. The tear-off does a notice for a supermarket bulletin board with "ripoff" phone numbers to take home. The tent can be used either on a restaurant table or, as here, for the top of a display package. The autonumbered tickets also use a BLANKS USA die cut form of their 4-up standard ticket.

## Doorknob hanger

gutility begin
nuisance begin
commands
printerror $\quad \%$ turn on the printing error
trapper
gonzo begin $\quad$ \% turn on the gonzo justification

590790 translate -180 rotate /showthegrid false def
\% turn on the gonzo utilities
\% turn on the nuisance
\% we need a new entry into the \% stepnrptparams dictionary ....
/stepnrptparams 10 dict def stepnrptparams begin
/twodoorhangers $\left[\begin{array}{lllllll}2 & 1 & 285 & 750 & 22 & 18 & 10\end{array}\right.$ false false] def end
\% here is the message we want repeated
/repeatproc \{ gsave
0010 setgrid
showthegrid $\{2552$ showgrid $\}$ if
/font0 /AvantGarde-Demi [6 0005.5000$]$ gonzofont
/yinc 6.1 def
12.542 (DO

NOT
DISTURB!) cc
\% fonts for faces
/font 1 /Symbol [2 $\left.\begin{array}{lllll}0 & 0 & 2 & 0 & 0\end{array}\right]$ gonzofont /font2 /Symbol [2.25 0002000 ] gonzofont
/font3 /ZapfDingbats [220 0022000 ] gonzofont /font4 /Symbol [2-2 0 2 2.50000$]$ gonzofont
\% note two spaces between eyes
\% two returns between eyes and mouth
\% six returns between mouth and outside sun
\% necessary for correct positioning
/sadsun \{
/yinc 0.9 def
00 (|1\267 \267
|2\307
|3b) cc
\} def
gsave 12.518 .5 translate sadsun grestore \} def


Share an apartment Cindy 779-4424

Share an apartment Cindy 779-4424

Share an apartment Cindy 779-4424
Share an apartment Cindy 779-4424

Share an apartment Cindy 779-4424

Share an apartment Cindy 779-4424

Share an apartment Cindy 779-4424

Share an apartment Cindy 779-4424

Share an apartment Cindy 779-4424

Share an apartment Cindy 779-4424

Share an apartment
Cindy 779-4424
/yinc 3 def
/cen 27.5 def \% trick to remember centering
font 1
cen 44 (TIRED OF DORM LIFE?) cc
font2
cen 37 (Non-Smoking
Roommate Wanted
Share an apartment with
a working WMNU student
Three miles from campus
| 1 \$250 PER MONTH|2
|h
(utilities, cable included)
Available January 1
call Cindy 797-4244) cc
\% get out of box for rest of sheet
grestore
line 1
018 [32] 1.5 setdash mt 58 r \% a dashed cross line
\% x y [\#on \#off] dashed line length
/ripoff \{ save /snaptik exch def
\% We have to modify the step and repeat dictionary for the \% ripoff entry...
/stepnrptparams 10 dict def
stepnrptparams begin
/12tabs [111 1501.5310 false false] def
end
/repeatproc \{ gsave
-90 rotate -18 0 translate
line 1
33.5 [2 1] 0 setdash mt 21 r
/font3 /Helvetica-Bold 1.5 gonzofont
/yinc 2 def
4.51 .5 (|3Share an apartment

Cindy 779-4424) cl
grestore\} def
(12tabs) stepandrepeat
snaptik
restore \} def
ripoff $\%$ make the tearoff tabs and print the page
quit

## Tent

gonzo begin
gutility begin
printerror
nuisance begin
\% tentproc - simplifies layout of back-to-back
\% lettering as used on an announcement, point
\% of purchase ad, or sealing product label.
\% predefine a frontproc and a rearproc. Then enter
\% tentproc with -lowerleft- -lowerbot- -gridresolution-
\% -xgridwidth- -ygridheight- -showtick- -showgrid-
\% tentproc
/tentproc \{ /showtheticks exch def /showthegrid exch def /ygridheight exch def /xgridwidth exch def gridresolution exch def /lowerbot exch def /lowerleft exch def save /snap1 exch def gsave lowerleft lowerbot translate 00 moveto gridresolution dup dup setgrid
showthegrid \{ xgridwidth ygridheight showgrid\} if
showtheticks \{ gsave 0 setlinewidth -1 -2 moveto 02 rlineto stroke
-2 - 1 moveto 20 rlineto stroke
xgridwidth 1 add -2 moveto 02 rlineto stroke
xgridwidth -1 moveto 20 rlineto stroke
-2 ygridheight 1 add moveto 20 rlineto stroke
-1 ygridheight moveto 02 rlineto stroke
xgridwidth ygridheight 1 add moveto 20 rlineto stroke xgridwidth 1 add ygridheight moveto 02 rlineto stroke
-2 ygridheight 2 mul 3 add moveto 20 rlineto stroke
-1 ygridheight 2 mul 2 add moveto 02 rlineto stroke
xgridwidth ygridheight 2 mul 3 add moveto 20 rlineto stroke
xgridwidth 1 add ygridheight 2 mul 2 add moveto 02 rlineto stroke \} if
save /frontsave exch def
frontsideproc
frontsave restore
180 rotate xgridwidth neg ygridheight 1 add 2 mul neg translate
showthegrid $\{$ xgridwidth ygridheight showgrid \} if
save /rearsave exch def
rearsideproc
rearsave restore $\}$ def
\% demo -- remove before use
/lowerleft 100 def
/lowerbot 50 def
/gridresolution 10 def
/xgridwidth 20 def
/ygridheight 22.5 def
/showthegrid false def
/showtheticks true def
\% define a step-and-repeat
/stepnrptparams 40 dict def
stepnrptparams begin
/threetentsplit [3 1 250500252510 true true] def end
0.91 scale $\%$ make it smaller in the x direction only
/frontsideproc \{

～100\％dripless～
～hand－rolled～
～natural honey scent～
eden candles

LIOZ－98t－E06

662 xoq $0 \cdot d$
səןриロ๐ иəрə

```
O
i nok سод JDəY Of Ө＾OI P،ӨM…
```

Natural Beeswax Candles

～100\％dripless～
～hand－rolled～
～natural honey scent～
eden candles

LIOZ－s8t－E06

662 xoq．0．d
səןиロ๐ иөрө

```
i no人 mo』 IDəч 아 әл이 p،әм…
```

Natural Beeswax Candles

～100\％dripless～
～hand－rolled～
～natural honey scent～
eden candles
/font1 /AvantGarde-DemiOblique $\left[\begin{array}{llllll}2.75 & 0 & 0 & 2.75 & 0 & 0\end{array}\right]$ gonzofont
/font4 /AvantGarde-DemiOblique $\left.\begin{array}{cccccc}1.5 & 0 & 0 & 1.5 & 0 & 0\end{array}\right]$ gonzofont
/font6 /AvantGarde-DemiOblique [2 0002000 ] gonzofont
/yinc 2 def
1021 (|6Natural Beeswax
Candles) cc
/yinc 2 def
1012 (|4~ 100\% dripless ~
~ hand-rolled ~
$\sim$ natural honey scent $\sim$ )cc
103 (|1eden candles) cc
newpath 1016.50 .850360 arc fill
\} def
/rearsideproc \{
/font0 /AvantGarde-DemiOblique $\quad\left[\begin{array}{llllll}2.5 & 0 & 0 & 2.5 & 0 & 0\end{array}\right]$
gonzofont
/font2 /AvantGarde-DemiOblique $\left.\begin{array}{ccccccc}1.5 & 0 & 0 & 1.5 & 0 & 0\end{array}\right]$ gonzofont
/font3 /AvantGarde-DemiOblique [2 000200 ] gonzofont /font5 /ZapfDingbats [1.5001.7500] gonzofont
/yinc 2 def
1021 (|3...we'd love to hear
from you) cc
1519.25 (|5") cl

1010 (|0eden candles) cc
/yinc 2 def
48 (|2p.o.box 299
cotton, ak 99543
903-485-2017) cl
newpath 1016.50 .850360 arc fill
newpath 15.518 .750 .20360 arc fill
grestore \} def
\% lowerleft lowerbot gridresolution xgridwidth ygridheight
\% showthegrid showtheticks tentproc
/hopistuff $\{00102022.5$ false false tentproc $\}$ def
/repeatproc $\{$ hopistuff $\}$ def
(threetentsplit) stepandrepeat
quit

## Autonumbering Tickets

gonzo begin
gutility begin
printerror
nuisance begin
/stepnrptparams 40 dict def stepnrptparams begin
/fourtickets [1 44701500010 false false] def end
\%/srfile gets used for custom entries. Each entry can be a \% string or a proc, but ONLY ONE ENTRY is allowed \% per final repeat.
/srfile [(You) (forgot) (to) (define) (srfile!)] def \% default srfile
\% /calcpages is an optional routine that decides how many
\% pages are needed ONLY when you are using a custom
\% srfile. This allows early exits when or if you run out of \% data.
/calcpages \{dup cvn stepnrptparams exch get dup 0 get exch 1 get mul
cvi srfile length exch div ceiling cvi /numpages exch def $\}$ def
\% This is the main stepandrepeat tool...
/stepandrepeat \{ save /srsnap exch def mark exch /quickexit false def
customdata \{calcpages\} if
setrepeatparams numpages $\{$ gsave landscape 1 \{-90 rotate -792 0 translate \} if
horstart vertstart translate gsave numhoriz \{gsave numvert \{drawticks
save /rptsave 1 exch def repeatproc rptsave 1
restore /runnum runnum 1 add def 0 incvert translate
srexitproc \} repeat quickexit \{exit\} if grestore inchoriz 0 translate $\}$
repeat quickexit \{exit \} if grestore
showpage
grestore\} repeat quickexit
\{showpage\} if cleartomark srsnap restore\} def
/customdata false def \% autopaginate custom data?
$\% \% \% \% \% \% \% \% \% \% \% \% \% \%$
\% define some artwork to be used on the tickets
/block1 \{save /snapbl exch def 0.2 setlinewidth newpath $1515 \mathrm{mt}-5-5$ rlineto $5-5$ rlineto $-5-5$ rlineto -10 10 rlineto 1010 rlineto $5-5$ rlineto gsave white fill grestore stroke
snapbl restore\} def
/block2 \{save /snapbl exch def 0.2 setlinewidth newpath $1515 \mathrm{mt}-5-5$ rlineto $5-5$ rlineto $-5-5$ rlineto -1010 rlineto 1010 rlineto $5-5$ rlineto gsave bestgray 0.9 setgray fill grestore stroke
snapbl restore\} def
/block3 \{save /snapbl exch def 0.2 setlinewidth newpath $1515 \mathrm{mt}-5-5$ rlineto $5-5$ rlineto $-5-5$ rlineto -1010 rlineto 1010 rlineto $5-5$ rlineto gsave bestgray 0.7 setgray fill grestore stroke
snapbl restore $\}$ def
/block4 \{save /snapbl exch def 0.2 setlinewidth newpath $1515 \mathrm{mt}-5-5$ rlineto $5-5$ rlineto $-5-5$ rlineto

| name |
| :--- |
|  |
| address |


| $\overline{\text { name }}$ |
| :--- |
| $\overline{\text { address }}$ |
| $\overline{\text { city/state/zip }}$ |
| phone |



1995-1001
1995-1002


## \$1.00/each - \$5/six <br>  <br> Annual



Valley Quilters
Annual
Quilt Raffle
\$1.00/each - \$5/six

-10 10 rlineto 1010 rlineto $5-5$ rlineto gsave bestgray 0.5 setgray fill grestore stroke
snapbl restore $\}$ def
/cardtrick $\{$
0.2 setlinewidth
$-0.2-0.2 \mathrm{mt} 30.40$ rlineto 030.4 rlineto - 30.40 rlineto
closepath stroke
gsave block1 grestore
gsave 300 translate 90 rotate block2 grestore gsave 3030 translate 180 rotate block3 grestore gsave 030 translate 270 rotate block4 grestore \} def
\% To force an early exit when you run out of names or \% reach a given ticket number, test suitably. Then \% conditionally make /quickexit true and exit repeatproc.
\% Note that an ending showpage is NOT required and \% should NOT be used.
\% default variables used by stepnrpt - make changes here in \% starting number and number of pages
/srexitproc \{\} def $\%$ default short exit - don't do it. /startnum 1001 def /runnum startnum def /numstring 15 string def
/numpages 3 def $\%$ default number of sheets to print
/repeatproc \{save /snapt exch def
202010 setgrid
\% 4715 showgrid
\% this is what remains the same on each group of tickets
/cstretch 0 def /sstretch 0.01 def
/font0 /ZapfChancery-MediumItalic 3 gonzofont
/font1 /Helvetica 1 gonzofont
/font2 /Helvetica-Narrow 0.7 gonzofont
/font3 /ZapfChancery-MediumItalic 2 gonzofont
/yinc 2.3 def
37.510 (|0Valley Quilters
|3Annual
Quilt Raffle) cc
37.52 (|1\$1.00/each $-\$ 5 /$ six $)$ cc
\%place some artwork on the ticket
gsave 19.53 translate 0.3 dup scale cardtrick grestore
\% rotate and translate for the ticket stub text placement
gsave 90 rotate $0-15$ translate
/yinc 2.5 def
19 (|2name
address
city/state/zip
phone) cl
0.1 setlinewidth
$\left[\begin{array}{lll}\{1 & 2.2 \mathrm{mt} 13 \mathrm{r}\} & 2.54\end{array}\right] \mathrm{yrpt}$
\% calls the font for the changing numbers and changes
\% numbers remove the " A " from the string for numbers
\% only change the numbers in the font array for point size
/Helvetica findfont [1.0 0001.2000$]$ makefont setfont
4.812 moveto (1995-) show runnum numstring cvs show
$4.8-2$ moveto (1995-) show runnum numstring cvs show grestore
snapt restore \} def
(fourtickets) stepandrepeat
quit

## PostScript Operators

## TEAR-OFF

setdash red book pg 500

## AUTONUMBERING TICKETS

ceiling
cvi
cvn
cvs
div
dup
get
mark
mul
show
red book pg 372
red book pg 394
red book pg 394
red book pg 396
red book pg 404
red book pg 404
red book pg 426
red book pg 454
red book pg 456
red book pg 520

## Gonzo Commands

TENT
frontsideproc gridresolution lowerleft lowerbot rearsideproc tentproc xgridwidth ygridheight
user defined tent front size of grid used horizontal starting point vertical starting point user defined tent rear actually does the work width of grid used height of grid used

## AUTONUMBERING TICKETS

drawticks
horstart inchoriz incvert numhoriz numstring numvert quickexit runnum
vertstart

## New Step and Repeat Commands

/fourtickets [144701500010 false false] def prints 4 autonumbered tickets per sheet
puts tick marks at corners horizontal starting point width of each ticket height of each ticket number of tickets horizontally on page string of numbers to be printed number of tickets vertically on page allows exit in middle of page current ticket number vertical starting point based on Blanks-USA regular size
/threetentsplit [3 1 250500 252510 true true] def prints three tents
/12tabs [111 1501.5310 false false] def repeats a short message/phone number for tear-off/take-away purposes
/twodoorhangers [2 1285750221810 false false] def prints two doorhangers feet first

## On Your Own

Review and alter the examples given in the setdash operator definitions - red book pg 500.
Write a pulp novel or newsletter to be set-up using the pulpnovel template. Or find a paperback novel you would not normally read to typeset for the template.

TICKETS, TAGS, LABELS \& BLANKS

| Avery Label | EZ Tag Corporation |
| :---: | :---: |
| 818 Oak Park Road | 2104 W Thomas Rd, S1001 |
| Covina, CA 91724 | Phoenix, AZ 85017 (602) 272-2552 |
| Blanks USA | Gummed Papers America |
| 2722 Fernbrook Lane North | 1333 S Jefferson |
| Minneapolis, MN 55447 | Chicago, IL 60607 |
| (800) 328-7311 | (800) 621-4398 |
| WH Brady Co | Quick Tickets |
| 2221 WCamden Road | G-3030 W Pasadena |
| Milwaukee, WI 53201 | Flint, MI 48504 |
| (414) 351-6630 | (800) 521-1142 |
| Die-O-Perf | Ticket Express |
| 1721 E Pioneer Drive | 366 Melody Lane |
| Irving, TX 75061 | Casselberry, FL 32707 |
| (800) 843-2807 | (800) 544-8520 |

## Pulpnovel

This pulp novel template is a useful starting point for creating your own custom gonzo booktemplates. It is purposely kept VERY simple.
As usual, if you don't like it, rearrange the scenery to suit yourself.
Note that any template MUST have an internal proc named templatestartup and that your template MUST NOT call gonzofont before run time.
VERY IMPORTANT NOTE: Some word processors insist on adding extra carriage returns between paragraphs or to enforce certain line length limits. MAKE CERTAIN YOURS DOES NOT! If all else fails, insert a <cr> ahead of time when and if needed.

## Pulp Novel Template and Demo

300 dict /pulpnovel exch def
pulpnovel begin
\% All fonts MUST defer till run time!
/templatefonts \{
/font0 /Bookman-Demi 36 gonzofont
cap
/font1 /Bookman-Light 9 gonzofont \% main text
/font2 /Bookman-LightItalic 9 gonzofont \% italics
/font3 /Bookman-Demi 10 gonzofont \% headers \} def
\% This header does nothing; the footer centers an
\% unadorned page number
/header \{ \} def
/footer \{save /footsnap exch def /ybot1 ybot def /ybot -9999 def rpagenum ( ) cvs dup stringwidth pop 2 div txtwide 2 div xpos add sub neg exch ybot 15 sub exch font 1 cc footsnap restore/rpagenum rpagenum 1 add def $\}$ def
\% templatestartup sets the margins and gets the header and \% footer going on the first page
/templatestartup \{ templatefonts font1 /xpos lmpos def /ypos ytop def /gonzojust true def /rslashok true def /rpagenum pagenum def header footer $\}$ def
end $\%$ simplepages template
$\% \% \% \% \% \% \% \% \% \% \%$
\% //// change to your novel ///
\% values used by gonzo justify ...
/cstretch 0.2 def $\%$ minimum character kerning /lastlinestretch 0.03 def $\quad \%$ stretch last paragraph line $/ \mathrm{pm} 10$ def $\quad \%$ use paragraph indents
/sstretch -0.1 def $\%$ minimum space kerning
/txtwide 255 def $\%$ width of text
/lmpos 30 def $\quad \%$ left margin
$/$ ybot 62 def $\quad \%$ bottom column reference
lyinc 11 def $\quad \%$ vertical line spacing
/ytop ybot yinc 39 mul add def $\%$ BASE of top line \% \#40 reference
/pagenum 1 def $\%$ running pagenumber
\% colcheck does all the work in a pagemaker. It is \% automatically called at the start of each new printable \% line. It can make room for figures, etc.
/colcheck \{ypos ybot lt \{showpage /ypos ytop def header footer\} if \} def
$|0| F D \mid 1$ arcie didn't expect to live. With the hand she could move enough to reach them, she tore unit and command patches from her uniform shirt\261left only her nametag, rank and flight surgeon's insignia. She drew out the chain from around her neck, yanked off the two crystal pendants hanging with her ID tags, and shoved them into the corner behind her.|p
"Mama?" The child stirred on her lap, trying to push himself back. "Why are 261 " She put a finger to his lips, her other hand cupping his head to prevent its bump- ing the metal bulkhead. "Hush, Tris."
She could barely whisper; she sat on the bottom of a locker meant only for a pressure suit $\ 261$ one of four in the maintenance compartment 261 with the toddler held snug between her body and her drawn-up knees.

## PROLOGUE

D
arcie didn't expect to live. With the hand she could move enough to reach them, she tore unit and command patches from her uniform shirt-left only her nametag, rank and flight surgeon's insignia. She drew out the chain from around her neck, yanked off the two crystal pendants hanging with her ID tags, and shoved them into the corner behind her.
"Mama?" The child stirred on her lap, trying to push himself back. "Why are-" She put a finger to his lips, her other hand cupping his head to prevent its bumping the metal bulkhead. "Hush, Tris."

She could barely whisper; she sat on the bottom of a locker meant only for a pressure suit-one of four in the maintenance compartment-with the toddler held snug between her body and her drawn-up knees.

Outside ship noises reached her: the roar of engines crescendoing toward thrust into lightskip-the fourth attempt. She braced her head well back in the corner behind the pressure suit, hugged Tristan to her breast and locked her teeth.

REST OF STORY GOES HERE . . .
She lunged left into the cross corridor, her right fist punching the manual trigger on its bulkhead. The shield door dropped behind her with a whoosh that was lost in a crunch and her pursuer's garbled scream. She pressed Tristan's face to her shoulder and forced herself not to look back.

The cross passage opened on one parallel to the concourse she had
sealed. It led to the lifepods-if they hadn't already been jettisoned.

She pressed herself to the bulkhead to listen for pursuers and to peer into the concourse. It was empty, up and down, except for the smoke-obscured shapes of bodies on the deck. She tried to set the child on his feet, to rest her arm, but he only clung to her, wideeyed with the recognition of her fear.

Darcie smoothed his hair and kissed his forehead. "Come on then, little soldier," she said, collecting him again, and slipped on into the passage. Smoke from screen grenades stung her eyes, making them run and blurring her vision. She stumbled over a body and paused, panting. One of the surface troopers, a young man she didn't know. Flung beyond his hand lay an energy pistol.

Outside ship noises reached her: the roar of engines crescendoing toward thrust into lightskip\261the fourth attempt. She braced her head well back in the corner behind the pressure suit, hugged Tristan to her breast and locked her teeth.

## REST OF STORY GOES HERE . . .

She lunged left into the cross corridor, her right fist punching the manual trigger on its bulkhead. The shield door dropped behind her with a whoosh that was lost in a crunch and her pursuer's garbled scream. She pressed Tristan's face to her shoulder and forced herself not to look back.
The cross passage opened on one parallel to the concourse she had sealed. It led to the lifepods $\backslash 261$ if they hadn't already been jettisoned.
She pressed herself to the bulkhead to listen for pursuers and to peer into the concourse. It was empty, up and down, except for the smoke-obscured shapes of bodies on the deck. She tried to set the child on his feet, to rest her arm, but he only clung to her, wide- eyed with the recognition of her fear.
Darcie smoothed his hair and kissed his forehead. "Come on then, little soldier," she said, collecting him again, and slipped on into the passage. Smoke from screen grenades stung her eyes, making them run and blurring her vision. She stumbled over a body and paused, panting. One of the surface troopers, a young man she didn't know. Flung beyond his hand lay an energy pistol.
|x
showpage quit

## PostScript Operators

| dict | red book pg 402 |
| :--- | :--- |
| pop | red book pg 463 |
| stringwidth | red book pg 528 |

## Gonzo Commands

colcheck
footer gonzojust
header
lmpos
pagenum
pulpnovel
rpagenum
rslashok
templatefonts
templatestartup
what actually does the pagemakeup what goes at the bottom of the page turns on the gonzo justification what goes at the top of the page left margin starting page number template definition running pagenumber adds one to each page boolean: prints the reverse slash fonts to be called in the pulpnovel template sets margins, gets header \& footer

## On Your Own

Collect two column magazine articles, or write your own article or newsletter.

## THE "IDEAL" BOOK-ON-DEMAND PRINTER

## Genuine Adobe PostScript

Level II or higher.

## Bolt-on Duplexer

Give you double sided printing with fewer hassles and less scrap.

Internal or External Hard Drive
Allow unattended opration and speed up printing time. They also free the operator and host computer for other tasks.

600+ DPI Resolution
Also photo enhancments. Optimize your artwork for the printer you are now using.

12 PPM
Minimum page count needed for fastest make-up and printing times.

## Two-way Comm

Proper use of PostScript demands on-screen error messages and host recordable comm.

See: Resource Bin 31, Nuts \& Volts August 1994 and Resource Bin 36, Nuts \& Volts January 1995 for further information.

| LASER PRINTER RESOURCES |  |
| :--- | :--- |
| Apple Computer | LaserMaster |
| 20525 Mariani Avenue | 6900 Shady Oak Rd |
| Cupertino, CA 95014 | Eden Prairie, MN 55344 |
| (408) 996-1010 | (800) 950-6868 |
| Epson |  |
| 20770 Madrona Ave | PrePRESS Direct |
| Torrance, CA 90509 Pleasant Avenue |  |
| (800) 289-3776 | East Hanover, NJ 07936 |
| Hewlett-Packard | (800) |
| 16399 W Bernardo Drive | QMS |
| San Diego, CA 92127 | Po Box 81250 |
| Mobile, AL 36689 |  |
| (619) 592-8333 | (205) 633-4300 |

## Two Column

## Newsletters

This routine extends the gonzo justify to allow multiple columns over multiple pages. The text will automatically "flow" around included figures. This is a two column version.

## Two Column Newsletter

gonzo begin
gutility begin
printerror
nuisance begin

## \% /// TWO COLUMN TEMPLATE ///

\% NOTE: using a grid gets tricky on multi-page
\% documents. To keep things simple, we will work full size
\% here. Individual figures can be on their own 10X grid.
\% Select your fonts. Font0 is the drop cap. Font1 is normal $\%$ text. Font 2 is italic text. Font 3 is bold text. Font= is the \% end bullet. Font- is used in the figures. The first font \% number is the width; the third is the height, and the sixth $\%$ is the amount of drop for a header ...
/colleft 60 def $\quad \%$ first column left margin /colbot 98 def $\quad \%$ column bottom position /coltop 700 def $\quad \%$ column top position /numcolumns 2 def $\%$ number of columns /colspacing 260 def $\%$ width of columns
/ypos coltop def $\%$ select top text line /pmnorm 10 def $\%$ paragraph margin
\% decide when to change columns. This particular colcheck \% also makes room for figures and prints all but the last \% page, so it is your pagemaker.
/colcheck \{ makefigroom ypos colbot lt \{colnum numcolumns ge \{showpage /pagenum pagenum 1 add def showfigs /ypos coltop yinc sub def /xpos colleft def /colnum 1 def leftpage $\{$ false $\}$ \{true \} ifelse /leftpage exch def header footer makefigroom $\}\{/$ colnum colnum 1 add def /ypos coltop yinc sub def /xpos xpos colspacing add def makefigroom $\}$ ifelse $\}$ if $\}$ def
\% setup your figures by using a dictionary. The Format is \% [pagenum colmnum figheight figbot drawiftrue figname]
/font0 /Palatino-Bold [42 00040 0-22] gonzofont
/font1 /Palatino-Roman [10 $\left.00010 \begin{array}{llll}10 & 0 & 10 & 0\end{array}\right]$ gonzofont
/font2 /Palatino-Italic [10 $\left.00010 \begin{array}{llll}10 & 0\end{array}\right]$ gonzofont
/font3 /Palatino-Bold [10 $00010 c c c c \mid$ gonzofont
/font $=/$ ZapfDingbats [10 00010000 ] gonzofont
/font- /ZapfDingbats [160 00160000 ] gonzofont
\% pick some template values
/txtwide 240 def
/yinc 11 def
/cstretch 0.2 def
/sstretch 0 def
\% width of text columns
\% line spacing
\% minimum extra space between
\% characters
\% minimum extra space between
\% spaces
/maxsstretch 0.25 def $\%$ trip point for character stretching
/maxcstretch 0.1 def $\%$ maximum allowable character \% stretching
/dropcount 3 def $\%$ number of lines the drop cap drops
/dropindent 29 def $\%$ indentation for the drop cap
/lastlinestretch 0.3 def \% slight stretch to last paragraph line

ASSIGNMENT 19: Write and set up a two column newsletter with text and figures.
/figdict 10 dict def figdict begin
/fig1 [llll $\begin{array}{lll}1 & 2 & 140\end{array}$ \{colbot 101 add\} true (clubs)] def
/fig2 [2 1140 \{colbot\} true (spades)] def
/fig3a [4 1140 \{coltop 144 sub\} true (shears)] def
/fig3b [4 2140 \{coltop 144 sub\} false (shears)] def
end
\% makefigroom lets the text flow around the figure spaces
/makefigroom \{figdict \{ /figvalues exch def pop pagenum figvalues 0 get eq \{colnum figvalues 1 get eq \{ypos figvalues 3 get cvx exec figvalues 2 get cvx exec add le ypos figvalues 3 get cvx exec ge and \{/ypos ypos figvalues 2 get cvx exec yinc div cvi 1 add yinc mul sub def $\}$ if $\}$ if $\}$ if \} forall\} def
\% showfigs goes through the dictionary and shows the
\% needed figures on the required pages
/showfigs \{figdict \{/figvalues exch def pop pagenum figvalues 0 get eq \{figvalues 4 get $\{/$ hold 2 exch def /hold1 exch def save /figsnapx exch def /colcheck \{\} def colleft
figvalues 1 get 1 sub colspacing mul add figvalues 3 get cvx exec translate figvalues 5 get cvn cvx exec clear figsnapx restore hold1 hold2\} if $\}$ if $\}$ forall\} def
\% here are three sample figures. The 0,0 location of each \% figure is in its lower left hand corner, no matter where it $\%$ is on which page. starts by drawing the box then centers \% the figure in the box.
/clubs \{line1 00 mt 138 u txtwide r 138 d txtwide 1 txtwide 2 div 11 (|-1250) cc \} def
/spades \{line1 00 mt 140 u txtwide r 140 d txtwide 1 txtwide 2 div 15 (|-\253) cc \} def
/shears \{line1 00 mt 137 u txtwide colspacing add r 137 d txtwide colspacing add 1 txtwide colspacing add 2 div 13 (|F-\$) cc \} def
\% setup the page making routine . . .
/setup $\{/$ colnum 1 def $/ x p o s$ colleft def 00 showfigs firstpageheader $\{$ header $\}$ if firstpagefooter $\{$ footer $\}$ if \} def
/firstpageheader true def $\%$ default "false" to turn off. /firstpagefooter true def \% default
\% select two macros to simplify drop caps and centered \% drop text...
/amacro \{(Flzy0) stringmacro\} def \% start drop cap /bmacro $\{(\mathrm{iFy} 1)$ stringmacro $\}$ def $\%$ finish drop cap /cmacro $\{(\mathrm{zynC} 3)$ stringmacro $\}$ def $\%$ centered title
/dmacro $\{(\mathrm{pF} 1)$ stringmacro $\}$ def $\%$ normal text
\% Here is a default header routine. Usually, you will want \% the subject name on the left for left pages and the \% publication name on the right for right pages . . .
/header \{ save /hsnap exch def mark /pmnorm 0 def /pm 0 def $00(|0 \quad| 0)$ cc line 1 colleft coltop 4 add translate 00 mt colspacing numcolumns 1 sub mul txtwide add r leftpage $\{05$ leftheader pagenumcheck cl\}\{colspacing numcolumns 1 sub mul txtwide add 5 rightheader pagenumcheck cr\}ifelse cleartomark hsnap restore \} def
\% Here is a default footer routine. Usually, you will want \% the page number on the left for left pages and the page \% number on the right for right pages . . .
/footer \{ save /fsnap exch def mark /pmnorm 0 def /pm 0 def $00(|0| 0)$ cc line 1 colleft colbot 17 sub translate 00 mt leftpage $\{05$ leftfooter pagenumcheck cl$\}\{$ colspacing numcolumns 1 sub mul txtwide add 0.5 rightfooter pagenumcheck cr\}ifelse cleartomark fsnap restore\} def

## \% Since the pagenumber can be any number of digits, we \% have to get tricky here when we replace the "pagenum" \% marker with the actual digits . . .

/pagenumcheck \{/strr exch def strr (pagenum) search \{/prenum exch def pop /postnum exch def pagenum 5
string cvs /thenum exch def postnum length thenum length add prenum length add string /numstring exch def numstring 0 prenum putinterval numstring prenum length thenum putinterval numstring prenum length thenum length add postnum putinterval numstring \} if \} def

## \% ////// END OF LAYOUT TEMPLATE ///////

\% Note \#1: | = embedded escape command.
\% Note \#2: Your host must be prevented from forcing extra \% carriage returns as part of its formatting. If your host \% insists on an extra carriage return every "n" characters, \% then insert a reverse slash that is immediately followed \% by a carriage return after each " $\mathrm{n}-3$ " or fewer characters \% of continuous text. Or change to another program.
\% Note \#3: Narrow, fill justified columns require several \% post-justification editing passes for the best possible \% appearance. Use hyphenation and rewording to get good \% results.

## \% ////// BEGIN DOCUMENT ///////////////

\% your actual document starts here, this is where you \% make most changes . . .
/leftheader (|2Alvin Snurdley) def
/rightheader (|2My Newsletter) def
/pagenum 1 def
/leftfooter (|2- pagenum -) def
/rightfooter (|2-pagenum -) def
/firstpagefooter true def $\%$ false to cancel
/firstpageheader true def $\%$ false to cancel /leftpage false def $\%$ this picks first page header and footer
/dropcount 3 def $\%$ number of lines the drop cap drops /dropindent 29 def $\%$ indentation for the drop cap
setup
startgonzo
|a
T
|b
his fairly simple code routine does show you how you can do a two column layout which includes built-in figures and also can include headers and footers that are left-right sensitive. |p
While there are several fine layout programs available today, such as |2Ventura Publisher|1 and |2PageMaker|1, this text-only code shown here gives a very high quality result, is totally flexible, device independent, fast, and economical.
More importantly, you can easily switch in to or out of PostScript anytime, so there is no practical limit to what goes where on the page.
|c
Centered \& Dropped Headings
|d
We can throw in a bunch of dummy paragraphs here that do not say much of anything, yet could get easily repeated

This fairly simple code routine does show you how you can do a multi column layout which includes built-in figures and also can include headers and footers that are left-right sensitive.

While there are several fine layout programs available to- day, such as Ventura Publisher and PageMaker, this text-only code shown here gives a very high quality result, is totally flexible, device independent, fast, and economical.

More importantly, you can easily switch in to or out of PostScript anytime, so there is no practical limit to what goes where on the page.

## Centered \& Dropped Headings

We can throw in a bunch of dummy paragraphs here that do not say much of anything, yet could get easily repeated over and over again so we can simplify all of your typing on this newsletter demo.

We can throw in a bunch of dummy paragraphs here that do not say much of anything, yet could get easily repeated over and over again so we can simplify all of your typing on this newsletter demo.

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|x
\% and show the final page. Don't skip the |x gonzo ender \% above!
showpage

## PostScript Operators

| clear | red book pg 373 |
| :--- | :--- |
| exec | red book pg 409 |
| forall | red book pg 423 |

## Gonzo Commands

$\left.\left.\begin{array}{ll}\text { colbot } \\ \text { colcheck } & \begin{array}{l}\text { column bottom position } \\ \text { also makes room for figures and prints } \\ \text { all but the last page, it is the } \\ \text { pagemaker. }\end{array} \\ \text { first column left margin }\end{array}\right] \begin{array}{l}\text { width of columns } \\ \text { colleft } \\ \text { colspacing } \\ \text { coltop } \\ \text { figdict }\end{array} \quad \begin{array}{l}\text { a dictionary used to call the figures } \\ \text { needs: [pagenum colmnum figheight } \\ \text { figbot drawiftrue figname] } \\ \text { boolean - turn on for a special first } \\ \text { page footer } \\ \text { boolean - turn on for a special first } \\ \text { page footer } \\ \text { defines where the footer is placed } \\ \text { defines where the header is placed } \\ \text { information for the left page footer }\end{array}\right\}$

## On Your Own

Redesign the templates for the two and three column newsletters changing the number of columns (1, 4, 5), column width, and the column top and column height. Replace the figures with your own artwork or curvetraces.

## Three Column

## Newsletters

This routine extends the gonzo justify to allow multiple columns over multiple pages. The text will automatically "flow" around included figures. This
is a three column version.

## Three Column Newsletter

gonzo begin
gutility begin
printerror
nuisance begin

## \% /// THREE COLUMN TEMPLATE ///

\% NOTE: using a grid gets tricky on multi-page
\% documents. To keep things simple, we will work full size
\% here. Individual figures can be on their own 10X grid.
\% Select your fonts. Font0 is the drop cap. Font1 is normal $\%$ text. Font2 is italic text. Font 3 is bold text. Font= is the \% end bullet. Font- is used in the figures. The first font \% number is the width; the third is the height, and the sixth \% is the amount of drop for a header ...
/colleft 60 def $\quad \%$ first column left margin
/colbot 200 def $\quad \%$ column bottom position
/coltop 500 def $\%$ column top position
/numcolumns 3 def $\%$ number of columns
/colspacing 160 def $\%$ width of columns
/ypos coltop def $\%$ select top text line /pmnorm 10 def $\%$ paragraph margin
\% decide when to change columns. This particular colcheck \% also makes room for figures and prints all but the last \% page, so it is your pagemaker.
/colcheck \{ makefigroom ypos colbot lt \{colnum numcolumns ge \{showpage /pagenum pagenum 1 add def showfigs /ypos coltop yinc sub def /xpos colleft def /colnum 1 def leftpage $\{$ false $\}$ \{true \} ifelse /leftpage exch def header footer makefigroom $\}\{/$ colnum colnum 1 add def /ypos coltop yinc sub def /xpos xpos colspacing add def makefigroom $\}$ ifelse $\}$ if \} def
\% setup your figures by using a dictionary. The Format is \% [pagenum colmnum figheight figbot drawiftrue figname]
/font0 /Palatino-Bold [42 00040 0-22] gonzofont
 gonzofont
/font2 /Palatino-Italic [ $\left.\begin{array}{llllll}10 & 0 & 0 & 10 & 0 & 0\end{array}\right]$ gonzofont
/font3 /Palatino-Bold [10 $\left.000 \begin{array}{llll}10 & 0 & -6\end{array}\right]$ gonzofont
/font= /ZapfDingbats [10 0001000 0] gonzofont
/font- /ZapfDingbats [160 0016000 0] gonzofont
\% pick some template values
/txtwide 140 def
/yinc 11 def
/cstretch 0.2 def
/sstretch 0 def
\% width of text columns
\% line spacing
\% minimum extra space between
\% characters
\% minimum extra space between
\% spaces
/maxsstretch 0.25 def $\%$ trip point for character stretching
/maxcstretch 0.1 def $\%$ maximum allowable character \% stretching
/dropcount 3 def $\%$ number of lines the drop cap drops
/dropindent 29 def $\%$ indentation for the drop cap
/lastlinestretch 0.3 def \% slight stretch to last paragraph line

> ASSIGNMENT 20: Write and set up a three page newsletter with text and figures.
/figdict 10 dict def figdict begin
/fig1 [11 2140 \{colbot 101 add \} true (clubs)] def
/fig2 [2 1140 \{colbot\} true (spades)] def
/fig3a [4 1140 \{coltop 144 sub\} true (shears)] def
/fig3b [4 2140 \{coltop 144 sub\} false (shears)] def
end
\% makefigroom lets the text flow around the figure spaces
/makefigroom \{figdict \{ /figvalues exch def pop pagenum figvalues 0 get eq \{colnum figvalues 1 get eq \{ypos figvalues 3 get cvx exec figvalues 2 get cvx exec add le ypos figvalues 3 get cvx exec ge and \{/ypos ypos figvalues 2 get cvx exec yinc div cvi 1 add yinc mul sub def $\}$ if $\}$ if $\}$ if\} forall\} def
\% showfigs goes through the dictionary and shows the
\% needed figures on the required pages
/showfigs \{figdict \{/figvalues exch def pop pagenum figvalues 0 get eq $\{$ figvalues 4 get $\{/$ hold2 exch def /hold1 exch def save /figsnapx exch def /colcheck \{\} def colleft
figvalues 1 get 1 sub colspacing mul add figvalues 3 get cvx exec translate figvalues 5 get cvn cvx exec clear figsnapx restore hold1 hold2\} if $\}$ if $\}$ forall\} def
\% here are three sample figures. The 0,0 location of each \% figure is in its lower left hand corner, no matter where it $\%$ is on which page. starts by drawing the box then centers \% the figure in the box.
/clubs \{line1 00 mt 138 u txtwide r 138 d txtwide 1 txtwide 2 div 11 (|-1250) cc \} def
/spades \{line1 00 mt 140 utx twide r 140 d txtwide 1 txtwide 2 div 15 (|-\253) cc \} def
/shears \{line1 00 mt 137 u txtwide colspacing add r 137 d txtwide colspacing add 1 txtwide colspacing add 2 div 13 (|F-\$) cc \} def
\% setup the page making routine . . .
/setup $\{/$ colnum 1 def $/ x p o s$ colleft def 00 showfigs firstpageheader $\{$ header $\}$ if firstpagefooter $\{$ footer $\}$ if \} def
/firstpageheader true def $\%$ default "false" to turn off. /firstpagefooter true def \% default
\% select two macros to simplify drop caps and centered \% drop text...
/amacro \{(Flzy0) stringmacro\} def \% start drop cap /bmacro $\{(\mathrm{iFy} 1)$ stringmacro $\}$ def $\%$ finish drop cap /cmacro $\{(\mathrm{zynC} 3)$ stringmacro $\}$ def $\%$ centered title
/dmacro $\{(\mathrm{pF} 1)$ stringmacro $\}$ def $\%$ normal text
\% Here is a default header routine. Usually, you will want \% the subject name on the left for left pages and the \% publication name on the right for right pages . . .
/header \{ save /hsnap exch def mark /pmnorm 0 def /pm 0 def $00(|0 \quad| 0)$ cc line 1 colleft coltop 4 add translate 00 mt colspacing numcolumns 1 sub mul txtwide add r leftpage $\{05$ leftheader pagenumcheck cl$\}\{$ colspacing numcolumns 1 sub mul txtwide add 5 rightheader pagenumcheck cr\}ifelse cleartomark hsnap restore \} def
\% Here is a default footer routine. Usually, you will want \% the page number on the left for left pages and the page \% number on the right for right pages . . .
/footer \{ save /fsnap exch def mark /pmnorm 0 def /pm 0 def $00(|0| 0)$ cc line 1 colleft colbot 17 sub translate 00 mt leftpage $\{05$ leftfooter pagenumcheck cl$\}\{$ colspacing numcolumns 1 sub mul txtwide add 0.5 rightfooter pagenumcheck cr\}ifelse cleartomark fsnap restore\} def

## \% Since the pagenumber can be any number of digits, we \% have to get tricky here when we replace the "pagenum" \% marker with the actual digits . . .

/pagenumcheck \{/strr exch def strr (pagenum) search \{/prenum exch def pop /postnum exch def pagenum 5
string cvs /thenum exch def postnum length thenum length add prenum length add string /numstring exch def numstring 0 prenum putinterval numstring prenum length thenum putinterval numstring prenum length thenum length add postnum putinterval numstring \} if \} def

## \% ////// END OF LAYOUT TEMPLATE ///////

\% Note \#1: | = embedded escape command.
\% Note \#2: Your host must be prevented from forcing extra \% carriage returns as part of its formatting. If your host \% insists on an extra carriage return every "n" characters, \% then insert a reverse slash that is immediately followed \% by a carriage return after each " $\mathrm{n}-3$ " or fewer characters \% of continuous text. Or change to another program.
\% Note \#3: Narrow, fill justified columns require several \% post-justification editing passes for the best possible \% appearance. Use hyphenation and rewording to get good \% results.

## \% ////// BEGIN DOCUMENT ///////////////

\% your actual document starts here, this is where you \% make most changes . . .
/leftheader (|2Alvin Snurdley) def
/rightheader (|2My Newsletter) def
/pagenum 1 def
/leftfooter (|2- pagenum -) def
/rightfooter (|2- pagenum -) def
/firstpagefooter true def $\%$ false to cancel /firstpageheader true def \% false to cancel /leftpage false def $\%$ this picks first page header and footer
/dropcount 3 def $\%$ number of lines the drop cap drops /dropindent 29 def $\%$ indentation for the drop cap
setup
startgonzo
|a
T
|b
his fairly simple code routine does show you how you can do a three column layout which includes built-in figures and also can include headers and footers that are left-right sensitive. |p
While there are several fine layout programs available today, such as |2Ventura Publisher|1 and |2PageMaker|1, this text-only code shown here gives a very high quality result, is totally flexible, device independent, fast, and economical.
More importantly, you can easily switch in to or out of PostScript anytime, so there is no practical limit to what goes where on the page.
|c
Centered \& Dropped Headings
d
We can throw in a bunch of dummy paragraphs here that do not say much of anything, yet could get easily repeated over and over again so we can simplify all of your typing

## My Newsletter

This fairly simple code routine does show you how you can do a three column layout which includes built-in figures and also can include headers and footers that are left-right sensitive.

While there are several fine layout programs available today, such as Ventura Publisher and PageMaker, this text-only code shown here gives a very high quality result, is totally flexible, device independent, fast, and economical.

More importantly, you can easily switch in to or out of PostScript anytime, so there is no practical limit to what goes where on the page.

## Centered \& Dropped Headings

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|x
\% and show the final page. Don't skip the |x gonzo ender \% above!
showpage

## On Your Own

Do further work on 1,2,3,4,5 column layouts. $8.5 \times 11$ portrait layouts with 4 or more columns should be left, right, or center justified and not fill justified for the best spacing. Compare your layouts with those in quality magazines and newsletters.


SECTION III

## CHARACTER CODES

ZapfDingbats

| A＊ | $a$ 为 |
| :---: | :---: |
| B＋ | b |
| C ！ | c＊ |
| D \％ | d＊ |
| E＊ | e＊ |
| F | f 潾 |
| G $\stackrel{\rightharpoonup}{ }$ | g 米 |
| H＊ | h＊ |
| 1 \％ | i＊ |
| J 0 | j 米 |
| K | k＊ |
| L | $1 \bigcirc$ |
| M | m |
| N ＊ | n ■ |
| O＊ | $\bigcirc \square$ |
| $P$ is | $p \square$ |
| Q＊ | q $\square$ |
| R＊ | $r \square$ |
| S＊ | $s$－ |
| T＊ | $t \nabla$ |
| U＊ | $u *$ |
| V＊ | v＊ |
| W＊ | w |
| X＊ | $x$ I |
| Y＊ |  |
| Z 粦 | z |



## PostScript Operators: Red Book Chapter 8.2

## Project 1

begin
def
lineto
makefont
moveto
quit
repeat
rlineto
scalefont
setfont
setlinewidth
showpage
stroke

## Project 2

setlinecap

## Project 3

repeat

## Project 4

grestore
gsave
rotate
setgray
translate

## Project 5

clear
exch
restore
save

## Project 6

| arc | red book pg 365 |
| :--- | :--- |
| clear | redbook pg 373 |
| closepath | red book pg 375 |
| currentpoint | red book pg 390 |
| dup | red book 404 |
| exch | red book 408 |
| fill | red book pg 416 |
| neg | red book pg 456 |
| newpath | red book pg 457 |
| scale | red book pg 487 |

## Project 9

curveto

## Project 10

eq
ge
get
le
lt
ne
red book pg 370
red book pg 397
red book pg 449
red book pg 452
red book pg 456
red book pg 468
red book pg 476
red book pg 482
red book pg 488
red book pg 503
red book pg 508
red book pg 520
red book pg 528
red book pg 506
red book pg 476
red book pg 429
red book pg 430
red book pg 484
red book pg 504
red book pg 533
red book pg 373
red book pg 408
red book pg 481
red book pg 486
red book pg 365
redbook pg 373
red book pg 375
red book pg 390
red book 404
red book 408
red book pg 456
red book pg 487
red book pg 393
red book pg 407
red book pg 425
red book pg 426
red book pg 448
red book pg 451
red book pg 456

## Project 16

add
red book pg 363
charpath
clip
clippath
cvx
dup
eoclip
findfont
forall
initclip
makefont
mark
mul
pathforall
pop
put
scalefont
setdash
setfont
show
$\sin$
stringwidth
sub

## Project 17

TEAR-OFF
setdash red book pg 500

## AUTONUMBERING TICKETS

| ceiling | red book pg 372 |
| :--- | :--- |
| cvi | red book pg 394 |
| cvn | red book pg 394 |
| cvs | red book pg 396 |
| div | red book pg 404 |
| dup | red book pg 404 |
| get | red book pg 426 |
| mark | red book pg 454 |
| mul | red book pg 456 |
| show | red book pg 520 |

## Project 18

dict
pop
stringwidth
red book pg 402
red book pg 463
red book pg 528

## Project 19

| clear | red book pg 373 |
| :--- | :--- |
| exec | red book pg 409 |
| forall | red book pg 423 |

red book $=$ PostScript Language Reference Manual 2nd Edition

## Gonzo Step and Repeats

Horizontal and vertical are defined AFTER selecting portrait or landscape. Parameters (in points or true/false) are as follows...

$$
\begin{aligned}
& \text { \#horizrpts - times proc repeats in horizontal direction } \\
& \text { \#vertrpts - times proc repeats in vertical direction } \\
& \text { hspacing - horizontal proc repeat spacing } \\
& \text { vspacing - vertical proc repeat spacing } \\
& \text { hstart - horizontal offset of first proc } \\
& \text { vstart - vertical offset of first proc } \\
& \text { ticklen - length of cropping ticks when and if used } \\
& \text { useticks? - show the ticks true/false boolean } \\
& \text { landscape - landscape orientation true/false boolean }
\end{aligned}
$$

## Stepandrepeat Definitions

| /admitonetick | [5 515060252510 true true] def | \% 45 tickets |
| :---: | :---: | :---: |
| /babybumper | [2 1027072403020 true false] def | \% 20 stickers |
| /badgeaminit | [2 322202209060250 false false] def | \% 6 badges |
| /bigbumpstick | [137922050040 true true] def | \% 3 bumperstickers |
| /buscard | [ 342556143122020 true true] def | \% 12 buscards |
| /busenvelope | [116685305 015020 true true] def | \% 1 envelope |
| /eightlabel | [24306198 00050 true false] def | \% 1/8 page |
| /fourtickets | [14470 150 0010 false false] def | \% 4 autonumbered tickets |
| /fulllandpage | [1110020 10050 false true] def | \% entire landscape page |
| /fullportpage | [1100020 110050 false false] def | \% entire portrait page |
| /medbumper | [15 585 144 203020 true false] def | \% 5 bumpersitckers |
| /quadsplit | [22396306 20050 true true] def | \% 1/4 page |
| /readerserv | [12 25 25-15 1204500 false false] def | \% 300 RS numabers |
| /shiplabel | [14290 1801606540 true false] def | \% 4 custom labels |
| /sixlabel | [2 233062640050 true false] def | \% 1/6 page |
| /smallbumper | [2 21027072403020 true false] def | \% 20 stickers |
| /stdplabel | [111254 $\begin{array}{lll}1 & 1855 & 50\end{array}$ | \% 11 stock dp labels |
| /tenlabel | [25 5 30514404550 true false] def | \% 1/10 page |
| /threetentsplit | [3 1 1 250 500 25251010 true true] def | \% 3 tents |
| /twodoorhangers | [2 1 1 285750 221810 false false] def | \% 2 door hangers |
| /videospline | [113424 60.380340 false false] def | \% 13 VHS splines |
| /3.5disklabel | [23216226 1006020 false false] def | \% 6 disk labels 3.5 |
| /5.25disklabel | [17316110 275350 false false] def | \% 7 disk labels 5.25 |
| /12tabs | [111501.5 310 false false] def | \% 12 rip-off tabs on botto |

## Gonzo Commands Used in Projects

## Project 1

cl
cc
cr
cf
gutility gonzo nuisance printerror setgrid showfont showgrid

## Project 2

rl
h

1
r
u
d
pr
pl
pu
pd
bestgray
copies
font 1 thru font0
gonzofont cstretch
sstretch
showthegrid
superstroke
yinc

## Project 3

manual repeatproc stepnrptparams stepandrepeat

## Project 4

black
landscape
lightgray
roundbox

## Project 5

font 1
line 1
line2
line3
callout left callout center callout right
callout fill
gutility dictionary
gonzo dictionary
nuisance dictionary
returns error to host and prints page
defines the xstart ystart points of each grid square
prints the font
prints the grid
moveto
rlineto
does a half negative linefeed
lineto left
lineto right
lineto up
lineto down
path right
path left
path up
path down
best gray angle and arrangement
used for multiple copies
defines the gonzofonts
calls the predefined fonts stretches spaces between characters stretches spaces between words turns on or off the layout grid
strokes complex black, gray, white lines or boxes defines the vertical line spacing
manual feeds stock from top of tray actual text and graphics to be repeated step and repeat dictionary prints a step and procedure (replaces showpage)
returns printing to black from gray
sets the landscape mode (horizontal)
lightest gray available
defines a complex black, gray, white box
a way to call fonts for several strings
sets the linewidth at .06 of a point or grid square sets the linewidth at .12 of a point or grid square sets the linewidth at .18 of a point or grid square
defines vertical lines repeated in the horizontal direction

## Project 6

roundbox
showmaingrid
showboxgrid

## Project 7

macro startgonzo
$\mid ?$
stringmacro defines horizontal lines repeated in the vertical direction
uses x y width height radius
used for main grid with additional grids on the same page used to place a grid in a predefined box
n executable array
Begins gonzo scanning of text that follows. |g may also be used. Terminates on end of file or $\mid x$.
User defined embeddable escape commands and macro commands.
A shorthand way of building macros. For instance /amacro $\{(\mathrm{Cyz} 3)$ stringmacro $\}$ def does an $|\mathrm{C}| \mathrm{y}|\mathrm{z}| 3$ all on a single $\mid a$ embedded command.

Also see Gonzo Justification Variables and Commands Appendix

## Project 8

titshift
tabs
justQ
justP
justL

## Project 9

ctproc
curvetrace
showtick
superinsidestroke
tension
ticklen tickhead

## Project 10

body
calcpages
censhow
customdata
date
labelart
letterhead
logoandreturnaddress
numpages
quickexit
returnaddress
runnum
signature
srexitproc
srfile
startnum
striplines
horizontal shift in title
allows you to set left justifid tabs or columns
user defined justification mode
user defined justification mode
user defined left justification
curvetrace proc - allows you to change tension on a curvetraced path
calls the curvetraced path
shows an arrow at each data point at angle entered
allows an a-symmetric border
changes the amount of curve or negative curve generated defines the length of arrow shaft
defines the length of arrow head
user defined proc
decides how many pages are needed when you are using a custom srfile. This allows early exits when or if you run out of data.
a simple centering proc
autopaginate custom data?
user defined proc
user defined proc
user defined proc
user defined proc
default number to print
forces an early exit when you run out of names or reach a given ticket
user defined proc
running pointer advances one per
user defined proc
default short exit - don't do it
gets used for custom entries
initial ticket number
takes a multi-line string, extracts each individual line string, and then executes stripproc for each line. Useful for simple addressing and custom form filling-in.
stripproc

## Project 11

botpanelproc
colcheck midpanelproc panelset paneltext quadpixel toppanelproc upsidedownpanel

## Project 12

arckern customkern
customkernchar karcjustify

## Project 13

backwards black blackflash negative white

## Project 14

SCROLL BORDER
drawscrollborder borderthickness borderlinewidth hloops vloops

ROPE-A-DOPE
drawarope drawelement
hsquareknot
1sqloop1 pathtosteparray
pdis
rope 1
rsqloop1
showsegrule
zdis
needed by striplines
user defined: horizontal bottom panel
user defined: horizontal middle panel
posiions each panel in the vertical trifold borchure user defined: each panel of the vertical trifold refines the grid
user defined: horizontal top panel
inverts a panel
defines the amount of kern between arced characters defines additional kern needed between specific arced characters
defines the character used to call the custom kern calls the arc justified text
automatically prints backwards
sets a black area or line prints an entire black page
makes black $=$ white and vice versa
sets a white area or line
defines and calls the border
how high the border is how heavy the scrolls are horizontal loops in scroll border vertical loops in scroll border
drawarope automates it rope 1 printing
drawelement grabs three edgepoint sets and passes them on to drawproc
draws a horizontal square knot, aided by rsqloop1 and 1sqloop1
left square knot loop
converts a path $\{$ ang 0 ang $1 \ldots$ angn $\}$ into an array \{ \{xa0 ya0 xb0 yb0\} \{xa1 ya1 xb1 yb1\} ...\} The "a" points are zdis normal "above" path center, while "b" points are zdis normal "below" path center.
width of each rope element
rope 1 builds a rope turn of one-half pdis, 500 max.
right square knot loop
boolean
height of each rope element

## CHARACTER BORDER

stringup
stringright
stringdown
stringleft
moves character repeat up left side moves character repeat across top moves character repeat down right side moves character repeat across bottom

## QUADFOLD BORDER

roundpath

|  | $\mathrm{x} 2 \mathrm{y} 2 \ldots \mathrm{xn} \mathrm{yn}]$ note it must begin and end in the center of |
| :--- | :--- |
| a line not at a corner |  |
| defines a non-symmetrical border or line [-widest- |  |

## Project 15

MENU JUSTIFY
cm
cropleadingspaces
curwide
cW
drawmdots mdoteht
menudots
menufont
menudelim
mlineproc
spchomp

## SUPERTABS

## cst

stabdelimiter
stabnewline
stabs
ytabadjust

## Project 16

cen
fonttouse letterheight letterwidth
makebigletters
outlinepath
stall
str

## Project 17

## TENT

frontsideproc gridresolution lowerleft lowerbot rearsideproc tentproc xgridwidth
menujustify - accepts tabbed string pairs, converts into dotted menu listings
boolean - useful when adapting preformatted fixed pitch data to full proportional PostScript
calculates the gonzo string width independent of printing it
calloutwidth - calculates only the width of the string, returning it to the top of the stack.
draws a line of menu dots, using show command height of dot used
character used for dots
default dot font
delimiter to separate columns
processes the mline string into a leading string, the dot row and a trailing string, erases unused dots.
takes a string and conditionally removes all leading spaces, returning the truncated string
main callout supertab routine. grabs a long string and breaks it into individual tab elements and formats them. decides when to move over to the next column. Popular values would be two or more spaces for dealing with imported listings or an actual [I] tab decides when to move down to the next line defines the supertab array provides for extra room between lines on multiple line tab entries when needed
center - use when you are doing several groups of center justified text
font used for big stencil letters
height in inches for big stencil letters
width in inches for big stencil letters - usually the same as the height
command to actually create separate letters on separate sheets of paper
internal delay character
delay procedure
single character string
user defined tent front size of grid used horizontal starting point vertical starting point user defined tent rear actually does the work width of grid used

## AUTONUMBERING TICKETS

| drawticks | puts tick marks at corners <br> horstart <br> horizontal starting point |
| :--- | :--- |
| inchoriz | width of each ticket |
| incvert | height of each ticket |
| numhoriz | number of tickets horizontally on page |
| numstring | string of numbers to be printed <br> numvert |
| number of tickets vertically on page |  |
| quickexit | allows exit in middle of page <br> current ticket number <br> vertstart |
| vertical starting point |  |

## Project 19

colbot
colcheck
colleft colspacing coltop figdict
firstpagefooter
firstpageheader
footer
header
leftfooter
leftheader
leftpage
makefigroom
numcolumns
pagenum
pagenumcheck
pmnorm
rightheader
rightfooter
setup
showfigs
puts tick marks at corners
horizontal starting point
width of each ticket
of each ticket
string of numbers to be printed
number of tickets vertically on page
wh exit in middle of page
current ticket number
vertical starting point
what actually does the pagemakeup
what goes at the bottom of the page
urns on the gonzo justification
what goes at the top of the page
starting page number
template definition
ch page
fonts to be called in the pulpnovel template
sets margins, gets header \& footer
column bottom position
also makes room for figures and prints all but the last page, it is the pagemaker.
first column left margin
width of columns
column top position
a dictionary used to call the figures needs: [pagenum
colmnum figheight figbot drawiftrue figname]
boolean - turn on for a special first page footer
boolean - turn on for a special first page footer
defines where the footer is placed
defines where the header is placed
information for the left page footer
information for the left page header
boolean - picks up firts page header and footer
lets the text flow around the figure spaces
number of columns
starting page number
finds the 'pagenum' and replaces it with actual digits
paragraph margin
information for the right page header
information for the right page footer
defines and calls the page making routine, includes colnum, xpos, figures, header, footer, firstpage info. goes through the figdict dictionary and shows the needed figures on the required pages

## Gonzo Justification Variables $\boldsymbol{\varepsilon}$ Commands

## Gonzo Variables

| colcheck | Checks for column bottom; link to page or column maker |
| :---: | :---: |
| cstretch | Minimum constant kerning of all characters (usually 0.2). |
| dropcount | Number of character lines needed by initial drop cap. |
| dropindent | Horizontal width reserved by initial drop cap. |
| headerx | Header xpos as used by template (optional). |
| headery | Header ypos as used by template (optional). |
| headerwide | Header txwide as used by template (optional). |
| kern | Adjusts the space between characters. |
| lastlinestretch | Slight stretch to last paragraph line. |
| maxcstretch | Maximum allowable character stretching. |
| maxsstretch | Maximum space stretch before character stretching begins. |
| overstrikechar | Overstrike character. |
| overstrikeht | Vertical shift of overstrike character. |
| pm | Normal paragraph indentation when used. |
| sstretch | Minimum constant kerning of all spaces (usually zero). |
| txtwide | Width of current column in points. |
| xpos | Left margin of current column, measured from left of page. |
| ybot | Vertical distance to base of bottom column line. |
| yinc | Vertical distance between column lines. |
| yparendadj | Extra vertical paragraph end ledding (usually zero). |
| ypos | Current vertical distance from bottom of page. |
| ytop | Vertical distance to base of top column line. |
| Embeddable Gonzo Commands. |  |
| \|0 | Change to font0. Preferred use $=$ initial drop cap. |
| \|1 | Change to font1. Preferred use = normal body text. |
| \|2 | Change to font2. Preferred use $=$ italic body text. |
| $\mid 3$ | Change to font 3 . Preferred use $=$ bold body text. |
| $\mid 4$ | Change to font4. Preferred use = all caps normal body text. |
| \|5 | Change to font5. Preferred use $=$ all caps italic body text. |
| 16 | Change to font6. Preferred use $=$ all caps bold body text. |
| 17 | Change to font7. Preferred use $=$ bold and dropped headers. |
| \|8 | Change to font8. Preferred use $=$ subscripts. |
| 19 | Change to font9. Preferred use $=$ superscripts. |
| - | Change to font - . Preferred use $=$ ZapfDingbats . |
| \|= | Change to font $=$. Preferred use $=$ Symbol in body text size . |
| \|C | Change to center justification on xpos+txtwide. |
| \|F | Change to fill justification between xpos and xpos + txtwide . |
| \|L | Change to left justification starting at xpos. |
| \|R | Change to right justification ending at xpos + txtwide . |
| \|a | Perform user defined Macro amacro. |
| \|b | Perform user defined Macro bmacro. |
| \|c | Perform user defined Macro cmacro. |
| \|d | Perform user defined Macro dmacro. |


| $\mid \mathrm{e}$ | Perform user defined Macro emacro. |
| :--- | :--- |
| $\mid \mathrm{f}$ | Perform user defined Macro fmacro. |
| $\mid \mathrm{g}$ |  |
| $\mid \mathrm{h}$ | Start gonzo justification. A PostScript alias for startgonzo. |
| $\mid \mathrm{i}$ | Do a half of a negative linefeed. |
| $\mid \mathrm{j}$ | Do an initial drop capital. |
| $\mid \mathrm{k}$ | Do a positive kern. |
| $\mid 1$ | Do a negative kern. |
| $\mid \mathrm{n}$ | Do a full linefeed. |
| $\mid \mathrm{o}$ | Nobreakconditional formfeed if within six lines of ybot. |
| $\mid \mathrm{p}$ | Do an overstrike character. |
| $\mid \mathrm{s}$ | Switch to normal paragraph margin, starting with next line |
| $\mid \mathrm{x}$ | Do a showpage for end of scanned file only. |
| $\mid \mathrm{y}$ | Exit gonzo justify and switch to native PostScript. |
| $\mid \mathrm{z}$ | Do a yinc up full negative linefeed. |
|  | Switch to zero paragraph margin, starting with next line. |

