Appendix A

Tables

A.1 Markers

○	— circle	†	— dag
△	— triangle	‡	— ddag
□	— square	∗	— asterisk
◇	— diamond	⊕	— oplus
●	— fcircle	⊖	— ominus
▲	— ftriangle	⊗	— otimes
■	— fsquare	⊙	— odot
◆	— fdiamond	△	— trianglez
•	— dot	◇	— diamondz
×	— cross	○	— wcircle
♣	— club	△	— wtriangle
♡	— heart	□	— wsquare
⋆	— star	◇	— wdiamond
§	— snake		

A.2 Fonts

`font-name`	Description
rm	Roman
rmb	Roman Bold
rmi	Roman Italic
ss	San Serif
ssb	San Serif Bold
ssi	San Serif Italic
tt	Typewriter
ttb	Typewriter Bold
tti	Typewriter Italic

`font-name`	Description
texcmb	Computer Modern Bold
texcmex	Computer Modern Extensible
texcmitt	Computer Modern Italic Typewriter
texcmmi	Computer Modern Maths Italic
texcmr	Computer Modern Roman
texcmss	Computer Modern Sans Serif
texcmssb	Computer Modern Sans Serif Bold
texcmssi	Computer Modern Sans Serif Italic
texcmsy	Computer Modern Symbol
texcmti	Computer Modern Text Italic
texcmtt	Computer Modern Typewriter Text

`font-name`	Description
plba	Block Ascii
plcc	Complex Cartographic
plcg	Complex Gothic
plci	Complex Italic
plcr	Complex Roman
plcs	Complex Script
pldr	Duplex Roman
plge	Gothic English
plgg	Gothic German
plgi	Gothic Italian
plsa	Simplex Ascii
plsg	Simplex German
plsr	Simplex Roman
plss	Simplex Script
plsym1	Symbols one
plsym2	Symbols two
plti	Triplex Italic
pltr	Triplex Roman

`font-name`	Description
psagb	AvantGarde-Book
psagbo	AvantGarde-BookOblique
psagd	AvantGarde-Demi
psagdo	AvantGarde-DemiOblique
psbd	Bookman-Demi
psbdi	Bookman-DemiItalic
psbl	Bookman-Light
psbli	Bookman-LightItalic
psc	Courier
pscb	Courier-Bold
pscbo	Courier-BoldOblique
psco	Courier-Oblique
psh	Helvetica
pshb	Helvetica-Bold
pshbo	Helvetica-BoldOblique
psho	Helvetica-Oblique
pshc	Helvetica-Condensed
pshcb	Helvetica-Condensed-Bold
pshcdo	Helvetica-Condensed-BoldOblique
pshn	Helvetica-Narrow
pshnb	Helvetica-Narrow-Bold
pshnbo	Helvetica-Narrow-BoldOblique
pshno	Helvetica-NarrowOblique
psncsb	NewCenturySchlbk-Bold
psncsbi	NewCenturySchlbk-BoldItalic
psncsi	NewCenturySchlbk-Italic
psncsr	NewCenturySchlbk-Roman
pspb	Palatino-Bold
pspbi	Palatino-BoldItalic
pspi	Palatino-Italic
pspr	Palatino-Roman
pstr	Times-Roman
psti	Times-Italic
pstb	Times-Bold
pstbi	Times-BoldItalic
pszcmi	ZapfChancery-MediumItalic
pszd	ZapfDingbats
pssym	Symbol

rm	Roman	psagb	AvantGarde-Book
rmb	**Roman Bold**	psagbo	*AvantGarde-BookOblique*
rmi	*Roman Italic*	psagd	**AvantGarde-Demi**
ss	Sans Serif	psagdo	***AvantGarde-DemiOblique***
ssb	**Sans Serif Bold**	psbd	**Bookman-Demi**
ssi	*Sans Serif Italic*	psbdi	***Bookman-DemiItalic***
tt	Typewriter	psbli	*Bookman-LightItalic*
ttb	**Typewriter Bold**	psc	Courier
tti	*Typewriter Italic*	pscb	**Courier-Bold**
		pscbo	***Courier-BoldOblique***
		psco	*Courier-Oblique*
texcmb	**Computer Modern Bold**	psh	Helvetica
texcmitt	*Computer Modern Italic Typewriter*	pshb	**Helvetica-Bold**
texcmmi	*ComputerModernMathsItalic*	pshbo	***Helvetica-BoldOblique***
texcmr	Computer Modern Roman	psho	*Helvetica-Oblique*
texcmss	Computer Modern Sans Serif	pshc	Helvetica-Condensed
texcmssb	**Computer Modern Sans Serif Bold**	pshcb	Helvetica-Condensed-Bold
texcmssi	*Computer Modern Sans Serif Italic*	pshcdo	Helvetica-Condensed-BoldOblique
texcmti	*Computer Modern Text Italic*	pshn	Helvetica-Narrow
texcmtt	Computer Modern Typewriter Text	pshnb	Helvetica-Narrow-Bold
		pshnbo	Helvetica-Narrow-BoldOblique
		pshno	Helvetica-NarrowOblique
plba	Block Ascii	psncsb	**NewCenturySchlbk-Bold**
plci	*Complex Italic*	psncsbi	***NewCenturySchlbk-BoldItalic***
plcr	Complex Roman	psncsi	*NewCenturySchlbk-Italic*
plcs	*Complex Script*	psncsr	NewCenturySchlbk-Roman
pldr	Duplex Roman	pspb	**Palatino-Bold**
plge	Gothic English	pspbi	***Palatino-BoldItalic***
plgg	Gothic German	pspi	*Palatino-Italic*
plgi	Gothic Italian	pspr	Palatino-Roman
plsa	Simplex Ascii	pssym	Σψμβολ
plsg	Τινπμεω Ηεσναξ	pstb	**Times-Bold**
plsr	Simplex Roman	pstbi	***Times-BoldItalic***
plss	*Simplex Script*	psti	*Times-Italic*
plti	*Triplex Italic*	pstr	Times-Roman
pltr	Triplex Roman	pszcmi	*ZapfChancery-MediumItalic*

A.3 Functions

Function Name	Returns ...
`TIME$()`	current time e.g. "11:44:27"
`DATE$()`	current date e.g. "Tue Apr 09 1991"
`DEVICE$()`	available devices e.g. "HARDCOPY, PS"
`LEFT$(str$,exp)`	left `exp` characters of `str$`
`RIGHT$(str$,exp)`	rest of `str$` starting at `exp`
`SEG$(str$,exp1,exp2)`	`str$` from `exp1` to `exp2`
`NUM$(exp)`	string representation of `exp`
`NUM1$(exp)`	as above but with no spaces
`VAL(str$)`	value of the string `str$`
`POS(str1$,str2$,exp)`	position of `str2$` in `str1$` from `exp`
`LEN(str$)`	the length of `str$`

Function Name	Returns ...
`ABS(exp)`	absolute value of expression
`ATN(exp)`	arctan
`COS(exp)`	cosine
`EXP(exp)`	exponent
`FIX(exp)`	`exp` rounded towards 0
`INT(exp)`	integer part of `exp`
`LOG(exp)`	log to base e of `exp`
`LOG10(exp)`	log to base 10 of `exp`
`SGN(exp)`	returns 1 if `exp` is positive, -1 if `exp` is negative
`SIN(exp)`	sine of `exp`
`SQR(exp)`	`exp` squared
`TAN(exp)`	tangent of `exp`
`NOT(exp)`	logical not of `exp`
`RND(exp)`	random number from seed `exp`
`SQRT(exp)`	square root of `exp`

Function Name	Returns ...
`XEND()`	the x end point of a text string when drawn
`YEND()`	the y end point of a text string when drawn
`XPOS()`	the current x point
`YPOS()`	the current y point
`TWIDTH(str$)`	the width of `str$` assuming current font, size
`THEIGHT(str$)`	the height of `str$` assuming current font, size
`TDEPTH(str$)`	the depth of `str$` assuming current the font, size
`XG(xexp)`	converts units of last graph to abs cm.
`YG(yexp)`	converts units of last graph to abs cm.

A.4 LATEX Macros and Symbols

There are several LATEX like commands which can be used within text, they are:

```
\ \’ \v \u \= \^    Implemented TeX accents
\. \H \~ \"
^{}                 Superscript
_{}                 Subscript
\\                  Forced Newline
\_                  Underscore character
\,                  .5em (em = width of the letter ‘m’)
\:                  1em space
\;                  2em space
\char{22}           Any character in current font
\chardef{a}{hello}  Define a character as a macro
\def\v{hello}       Defines a macro
\movexy{2}{3}       Moves the current text point
\glass              Makes move/space work on beginning of line
\rule{2}{4}         Draws a filled in box, 2cm by 4cm
\setfont{rmb}       Sets the current text font
\sethei{.3}         Sets the font height (in cm)
\setstretch{2}      Scales the quantity of glue between words
\lineskip{.1}       Sets the default distance between lines of text
\linegap{-1}        Sets the minimum required gap between lines
```

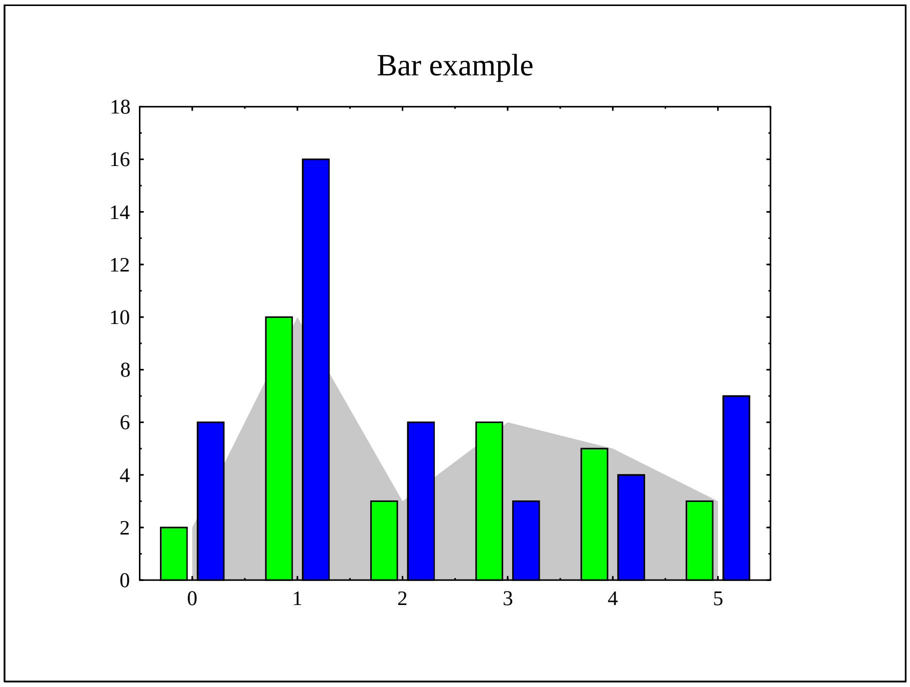
[	\lbrack	ß	\ss	$\geq$	\geq	†	\dag
‡	\ddag	§	\S	¶	\P	©	\copyright
α	\alpha	β	\beta	γ	\gamma	δ	\delta
ϵ	\epsilon	ζ	\zeta	η	\eta	θ	\theta
ι	\iota	κ	\kappa	λ	\lambda	μ	\mu
ν	\nu	ξ	\xi	π	\pi	ρ	\rho
σ	\sigma	τ	\tau	υ	\upsilon	ϕ	\phi
χ	\chi	ψ	\psi	ω	\omega	ε	\varepsilon
ϑ	\vartheta	ϖ	\varpi	ϱ	\varrho	ς	\varsigma
φ	\varphi						

$\aleph$	\aleph	$\imath$	\imath	$\jmath$	\jmath
ℓ	\ell	$\wp$	\wp	$\Re$	\Re
$\Im$	\Im	∂	\partial	∞	\infty
$\prime$	\prime	$\emptyset$	\emptyset	∇	\nabla
$\top$	\top	$\bot$	\bot	$\triangle$	\triangle
$\forall$	\forall	$\exists$	\exists	$\neg$	\neg
$\flat$	\flat	$\natural$	\natural	$\sharp$	\sharp
$\clubsuit$	\clubsuit	$\diamondsuit$	\diamondsuit	$\heartsuit$	\heartsuit
$\spadesuit$	\spadesuit	$\coprod$	\coprod	$\bigvee$	\bigvee
$\bigwedge$	\bigwedge	$\biguplus$	\biguplus	$\bigcap$	\bigcap
$\bigcup$	\bigcup	$\prod$	\prod	$\sum$	\sum
$\bigotimes$	\bigotimes	$\bigoplus$	\bigoplus	$\bigodot$	\bigodot
$\bigsqcup$	\bigsqcup	$\smallint$	\smallint	$\int$	\intop
$\oint$	\ointop	$\triangleleft$	\triangleleft	$\triangleright$	\triangleright
$\bigtriangleup$	\bigtriangleup	$\bigtriangledown$	\bigtriangledown	$\wedge$	\wedge
$\land$	\land	$\vee$	\vee	$\lor$	\lor
$\cap$	\cap	$\cup$	\cup	$\ddagger$	\ddagger
$\dagger$	\dagger	$\sqcap$	\sqcap	$\sqcup$	\sqcup
$\uplus$	\uplus	$\amalg$	\amalg	$\diamond$	\diamond
$\bullet$	\bullet	$\wr$	\wr	$\div$	\div
$\odot$	\odot	$\oslash$	\oslash	$\otimes$	\otimes
$\ominus$	\ominus	$\oplus$	\oplus	$\mp$	\mp
$\pm$	\pm	$\circ$	\circ	$\bigcirc$	\bigcirc
$\setminus$	\setminus	$\cdot$	\cdot	$\ast$	\ast
$\times$	\times	$\star$	\star		

Appendix B

Examples

- A Single Graph
- Stack of Two Graphs
- Stack of Four Graphs
- Shadow Graph
- Subroutines, Loops
- Joining Objects
- Clipping
- Wall Reference




```
size 12 9  box
begin graph
SIZE 12 9
Title "Bar example"
data single.dat
bar d1,d2 fill green,blue
fill x1,d1 color grey10
end graph
```

single.gle

```
0 2 6
1 10 16
2 3 6
3 6 3
4 5 4
5 3 7
```

single.dat

stack2.gle 22.

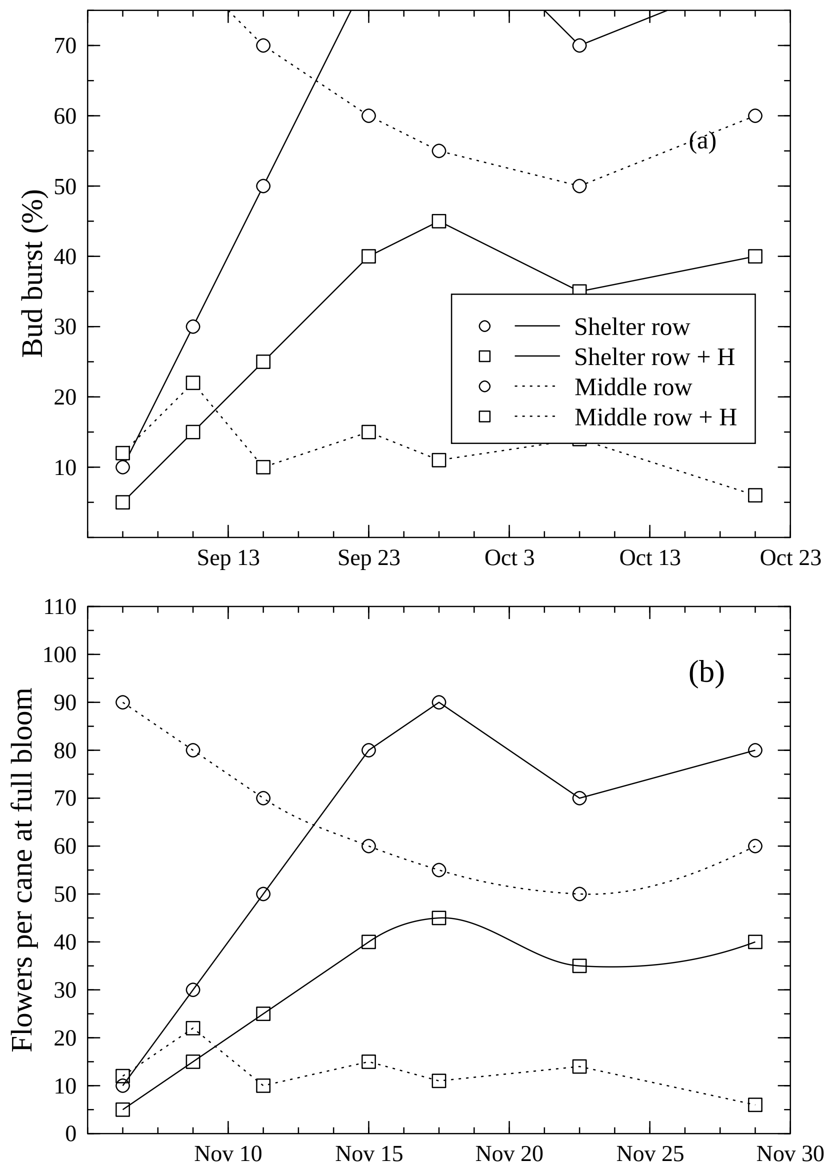


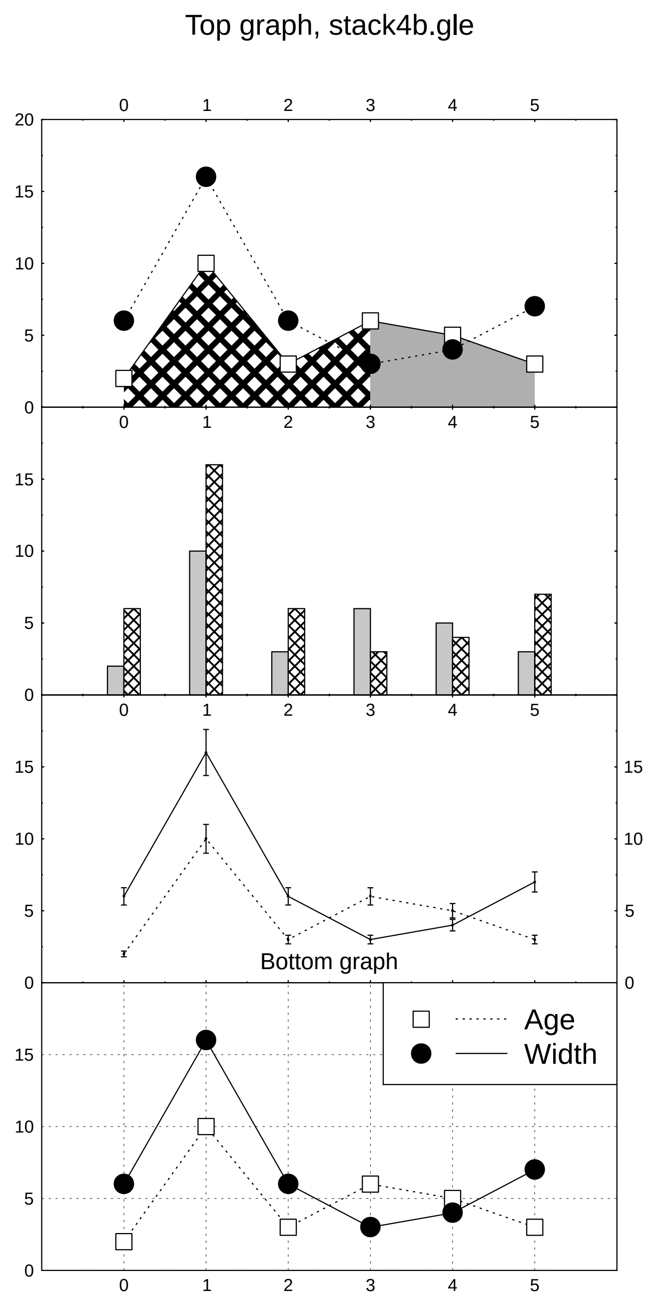
Figure 5. Influence of Hicane on the duration and timing of (a) bud burst and (b) flowering of kiwifruit. (Note: this data has been made up)

```
size 18 27  box !  (uncomment box for debugging)    This is STACK2.GLE
amove 1.3 14.5
begin graph
size 16 12
nobox
xaxis min 0 max 20 dticks 4 dsubticks 1
xplaces  4 8 12 16 20 ! these would be set to match the dates
xnames "Sep 13" "Sep 23" "Oct 3" "Oct 13" "Oct 23"
xticks length .2
yticks length .2
yaxis min 0 max 75 dticks 10 dsubticks 5 nofirst
ytitle "Bud burst (%)"
xtitle ""
data TEST4.DAT
d1 lstyle 1 marker wcircle msize .3
d2 lstyle 1 marker wsquare msize .3
d3 lstyle 2 marker wcircle msize .3
d4 lstyle 2 marker wsquare msize .3
end graph
set hei .4
begin key
offset 8.2  2.3
text "Shelter row" lstyle 1 marker circle mscale .6
text "Shelter row + H " lstyle 1  marker square mscale .6
text "Middle row" lstyle 2 marker circle mscale .6
text "Middle row + H" lstyle 2 marker square mscale .6
end key
rmove 12 9
text (a)

amove 1.3 4
set font rm hei .5
begin graph
size 16 12
nobox
xaxis min 0 max 20 dticks 4 dsubticks 1
xplaces  4 8 12 16 20 ! these would be set to match the dates
xnames "Nov 10" "Nov 15"  "Nov 20" "Nov 25"  "Nov 30"
xticks length .2
yticks length .2
yaxis min 0 max 110 dticks 10 dsubticks 5
ytitle "Flowers per cane at full bloom "
xtitle ""
data TEST4.DAT
d1 lstyle 1 marker circle msize .3
d2 lstyle 1 marker square msize .3 smooth
d3 lstyle 2 marker circle msize .3 smooth
d4 lstyle 2 marker square msize .3
end graph
rmove 12 9
text (b)

set hei .4
amove 9 26
text 22.
amove 1.3 3
begin text width 16
Figure 5. Influence of Hicane on the duration and timing of  (a) bud burst
and (b) flowering of kiwifruit.  (Note: this data has been made up)
end text

set just left
amove .5  26
text stack2.gle
```

stack2.gle

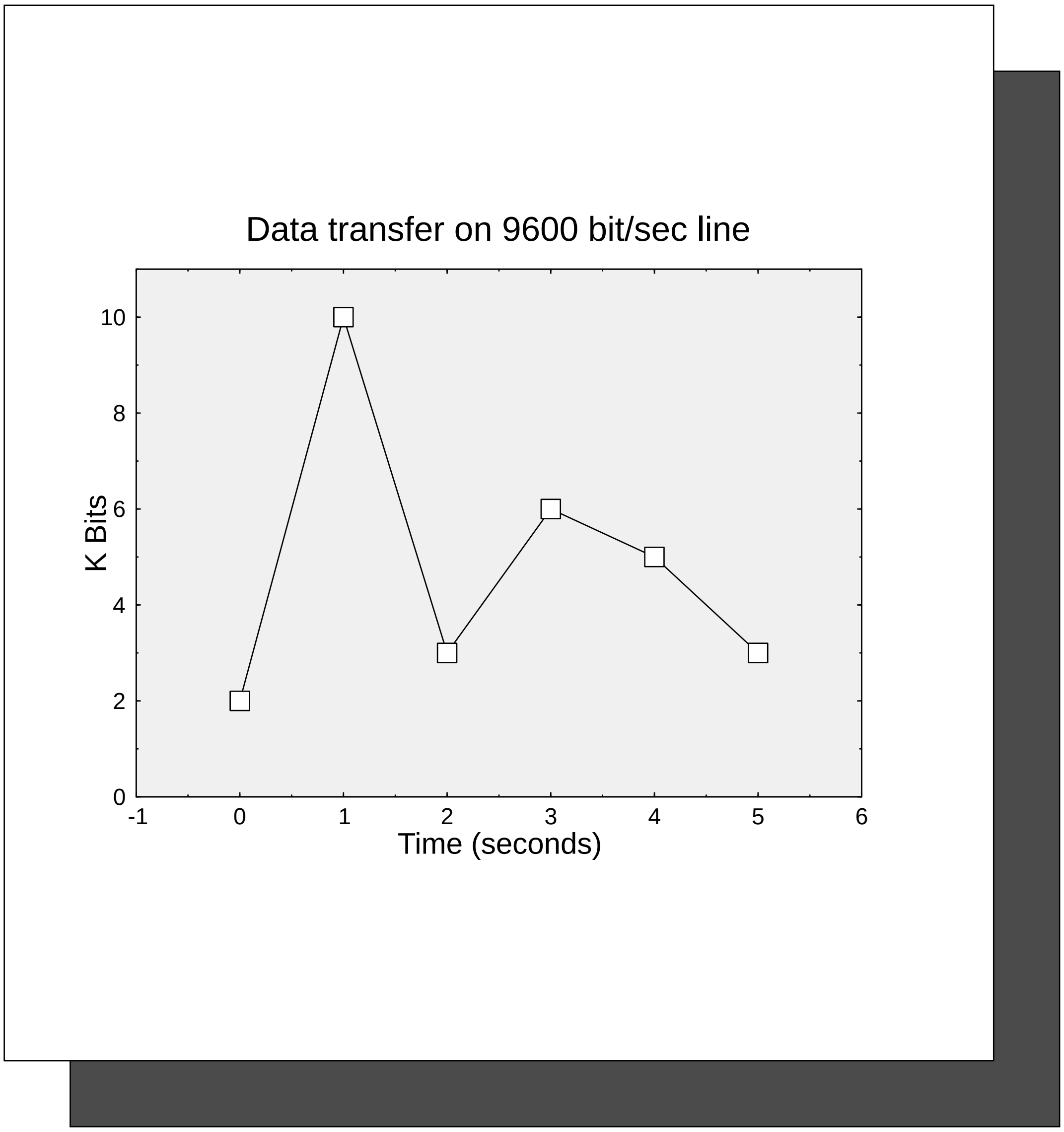
```
1     10    5     90    12
3     30    15    80    22
5     50    25    70    10
8     80    40    60    15
10    90    45    55    11
14    70    35    50    14
19    80    40    60    6
```

test4.dat


Top graph, stack4b.gle
Bottom graph
Age
Width

```
size 17 26  ! box  (uncomment box for measuring with ruler) STACK4B.GLE
set font ss
amove 3.5 19
begin graph
size 10 5
data TEST.DAT
title "Top graph, stack4b.gle" hei .5 dist 1
fullsize
xaxis min -1 max 6 dticks 1 hei .3 nofirst nolast
yaxis min 0 max 20 hei .3 dticks 5
x2labels on
d1 marker wsquare  msize .4 lstyle 1
d2 marker dot  msize 1 lstyle 2
fill x1,d1 color grid4 xmax 3
fill x1,d1 color grey20 xmin 3
end graph

rmove 0 -5
begin graph
size 10 5
data TEST.DAT
fullsize
xaxis min -1 max 6 dticks 1 hei .3 nofirst nolast
yaxis min 0 max 20 hei .3 dticks 5 nolast
bar d1,d2 width .2 dist .2 fill grey10,grid3 color black,black
end graph

rmove 0 -5
begin graph
data TEST.DAT
fullsize
size 10 5
xaxis min -1 max 6 dticks 1 hei .3 nofirst nolast
yaxis min 0 max 20 hei .3 dticks 5 nolast
xlabels off
y2labels on
d1 marker dot lstyle 2 err 10%
d2 marker dot lstyle 1 err 10%
end graph

rmove 0 -5
begin graph
data TEST.DAT
title "Bottom graph" hei .4 dist 0.0
fullsize
size 10 5
xaxis min -1 max 6 dticks 1 hei .3 nofirst nolast grid
yaxis min 0 max 20 hei .3 dticks 5 nolast grid
xticks lstyle 2 lwidth 0.0001   ! sets the grid line style
yticks lstyle 2 lwidth 0.0001
d1 marker wsquare  msize .4 lstyle 2 key "Age"
key hei .5
d2 marker dot  msize 1 lstyle 1 key "Width"
end graph
```

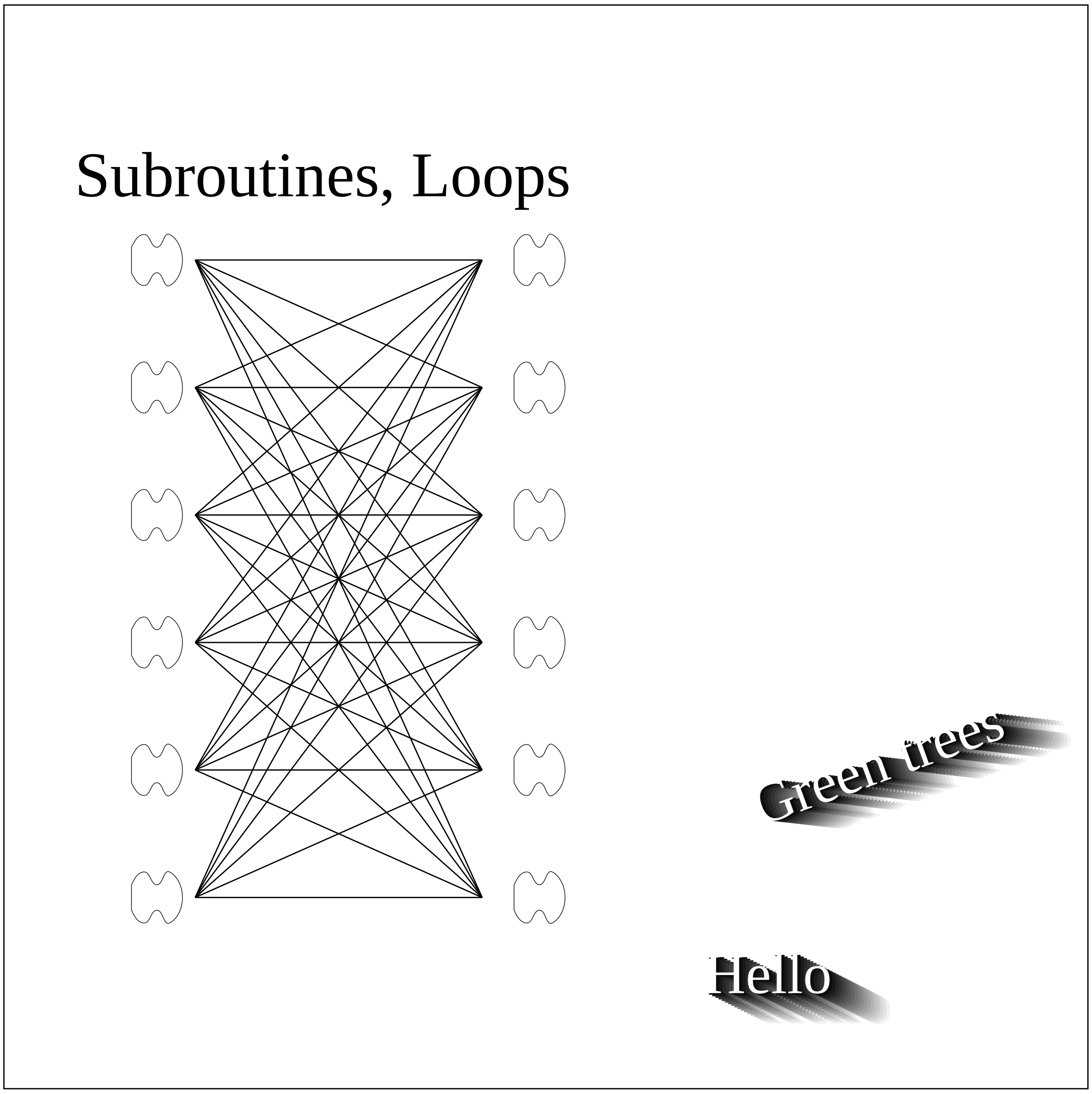
stack4b.gle


Data transfer on 9600 bit/sec line
K Bits
0
2
4
6
8
10
-1
0
1
2
3
4
5
6
Time (seconds)

stack1.gle

```
size 17 23  ! This is STACK1.GLE,  a single graph, with shading background
set hei .4
amove .3 .3
text stack1.gle

amove 1.5 5
box 15 16 fill grey60
rmove -1 1
box 15 16 fill white
rmove 2 4
box 11 8 fill grey5
set font ss
begin graph
fullsize
size 11 8
title "Data transfer on 9600 bit/sec line"
xtitle "Time (seconds)"
ytitle "K Bits"
data test.dat
d1 line marker wsquare mscale 2
xaxis min -1 max 6
yaxis min 0 max 11
end graph
```

stack1.gle

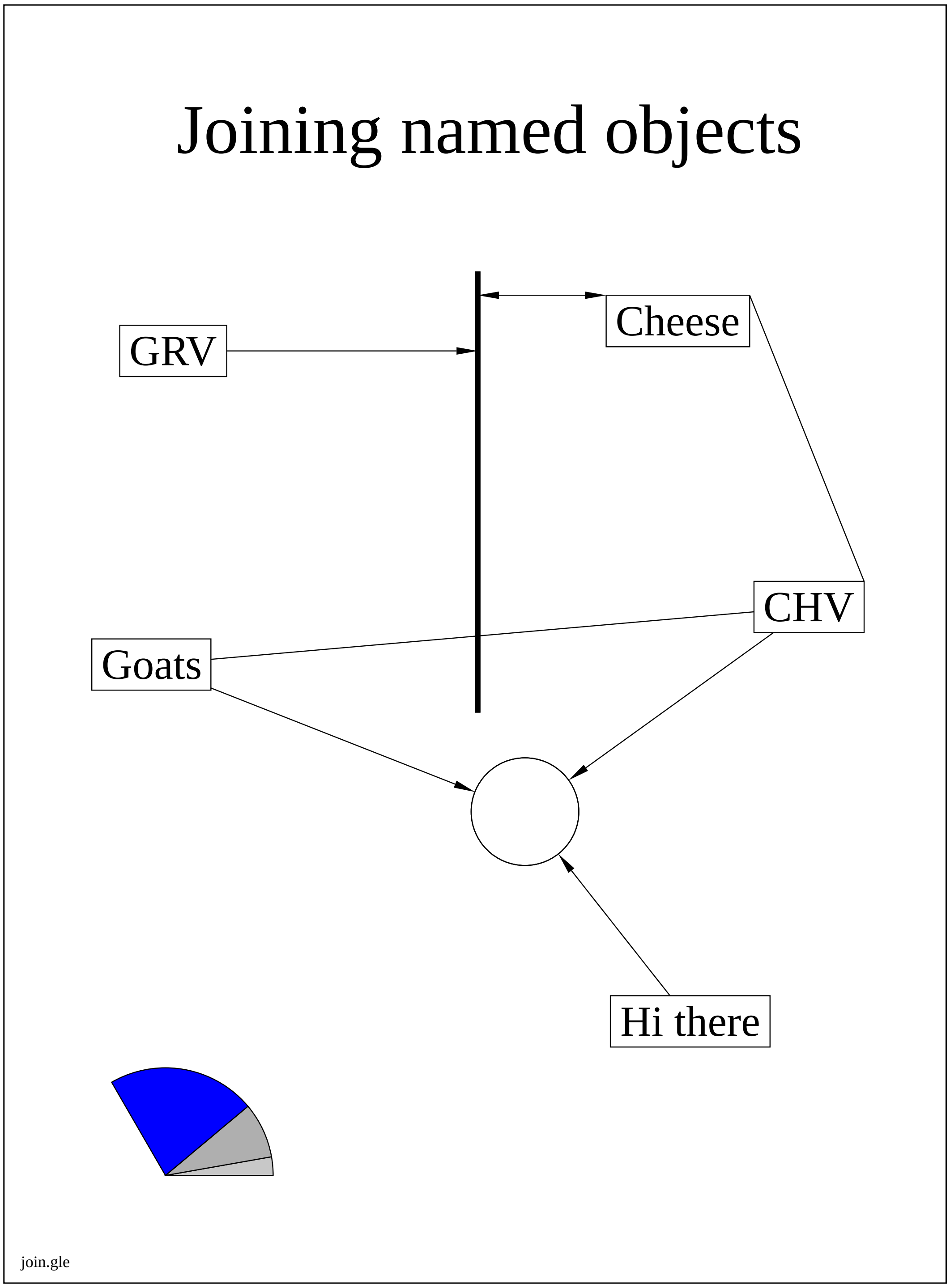

Subroutines, Loops
Green trees
Hello

```
size 17 17 box !18 24 box ! This is LOOP.GLE, shows programming examples
amove 5 14
set just center hei 1
text Subroutines, Loops
set just left hei .7
set hei .9

! First define a single neuron
sub neuron xx yy
   amove xx yy
   begin scale .5 .5
      curve  0  .4  .4  .4  .4 -.4  .4  .4  .4 -.8 -.4 -.8 -.4 .4
      curve -.4 -.8 -.4  .4 -.4 -.4 -.4  .4  0  .4
      closepath
   end scale
end sub

! Draw the neurons
for xx = 0 to 1
   for i = 1 to 6
      @neuron xx*6+2 i*2+1.2
   next i
next xx

! Draw the lines between them
for i = 1 to 6
   for j = 1 to 6
      amove 3 i*2+1
      aline 7.5 j*2+1
   next j
next i

!------------------------------------------------------------
include ziptext.gle
amove 12 1
@ziptext "Hello"
amove 13 4
begin rotate 20
   @ziptext "Green trees"
end rotate
```

loop.gle

```
sub ziptext tt$
gsave
for i = 1 to 0 step -.05
set color (i)
write tt$
rmove -.05 .025
next i
set color white
write tt$
grestore
end sub
```

ziptext.gle


Joining named objects
Cheese
GRV
CHV
Goats
Hi there
join.gle

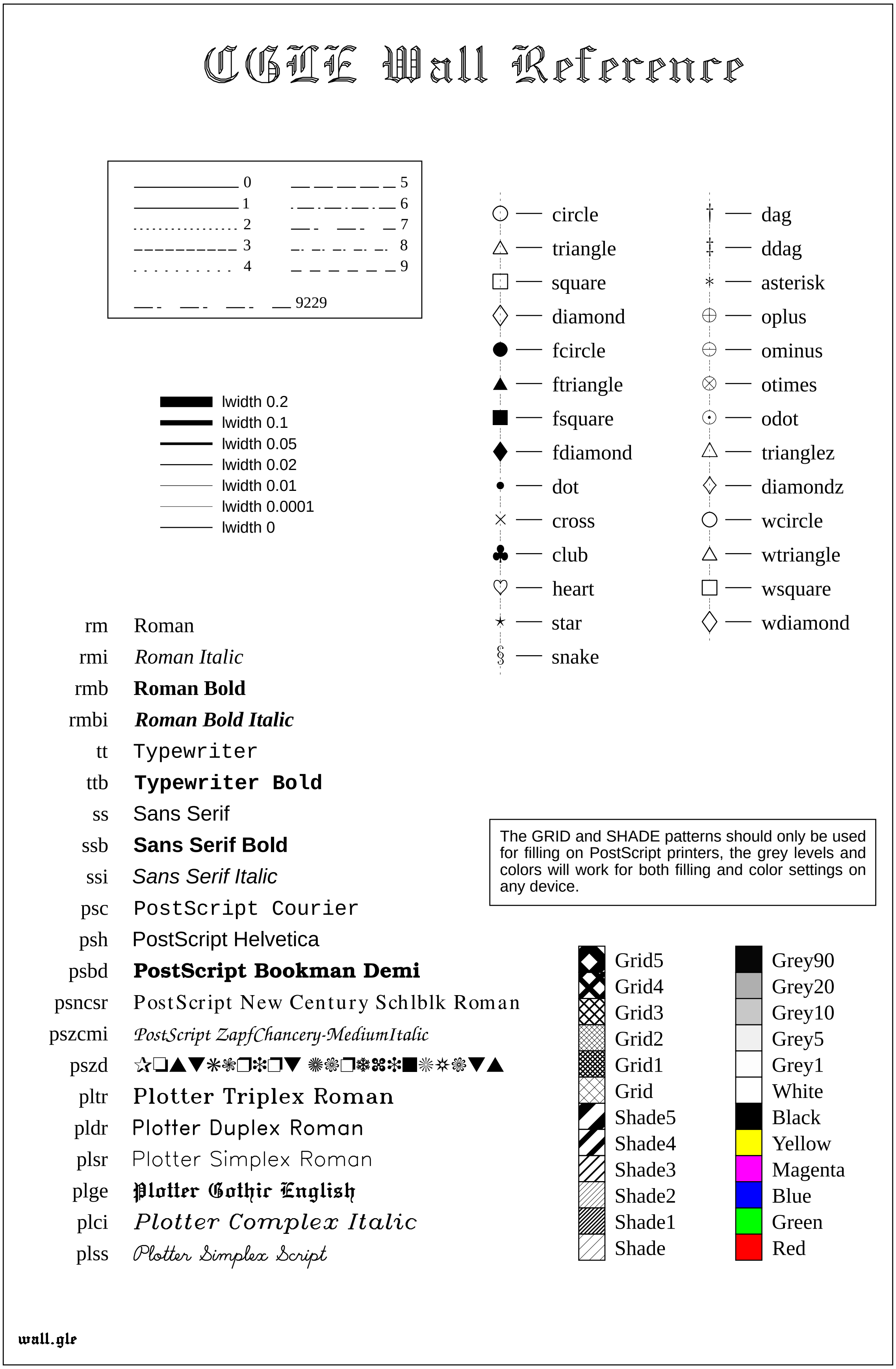
```
size 18 24 box ! This is JOIN.GLE, demonstrates the join commands.
set hei .3
amove .3 .3
text join.gle

set hei 1.3 just center
amove 9 21
text Joining named objects

set hei .8 lwidth .1
amove 8.8 18.8
begin box name line
   rline 0 -8.2
end box
set lwidth 0

amove 9.67745 8.7603
begin box  name cir  nobox
   circle 1
end box
circle 1
amove 12.7461 4.59445
begin box name hi  add .2
   text Hi there
end box
amove 3.14401 17.0566
begin box name grv add .2
   text GRV
end box
amove 14.9533 12.2986
begin box name chv add .2
   text CHV
end box
amove 12.5179 17.6103
begin box name cheese add .2
   text Cheese
end box
amove 2.7381 11.229
begin box name goats add .2
   text Goats
end box
! Now draw the lines between objects
join chv - goats
join grv -¿ line.h          ! Note: ".h" means to join horizontally.
join line.h ¡-¿ cheese.tl
join cheese.tr - chv.tr
join cir.ci ¡- hi           ! Note: ".ci" is used for circles
join cir.ci ¡- chv
join cir.ci ¡- goats
!————————————————————————————————————————
! A pie slice  (Will only work on PostScript it uses BEGIN PATH FILL).
sub pie ang1 ang2 radius color$
begin path fill color$ stroke
   rmove 0 0
   arc radius ang1 ang2
   closepath
end path
end sub

amove 3 2
@pie 0 10  2 "grey10"
@pie 10 40 2 "grey20"
@pie 40 120 2 "blue"
```

join.gle

clip.gle

```
size 18 24 ! This is CLIP.GLE, sets up an arbitrary clipping region.
set hei .3 ! NOTE: CLIPPING ONLY WORKS ON POSTSCRIPT DEVICES.
amove 2.3 .3 ! So this won't work on the pc-screen.
text clip.gle

set hei 10
amove 2 2
begin clip ! Save default clipping region
   begin path clip ! Set up the clipping region
      text GLE
   end path
   gsave
      amove 2 2
      text www ! Draw some text which will be clipped
      for i = 1 to 90 ! Draw some lines which will be clipped
         amove 2 2
         rotate -1
         rline 0 30
      next i
   grestore
end clip ! restore default clipping region
amove 0 0
rline 10 10  ! draw a line which won't be clipped.
!————————————————————————————————————
!Here's a simple example of how to set up a clipping region which consists
!of two squares. Try this out
amove 1 11
begin origin
   begin path clip stroke
      amove 2 2
      box 4 4
      amove 7 2
      box 4 4
   end path
   amove 2 2
   set hei 4
   text Here is clipped text
end origin
```

clip.gle


CGLE Wall Reference
0
1
2
3
4
5
6
7
8
9
9229
lwidth 0.2
lwidth 0.1
lwidth 0.05
lwidth 0.02
lwidth 0.01
lwidth 0.0001
lwidth 0
circle
triangle
square
diamond
fcircle
ftriangle
fsquare
fdiamond
dot
cross
club
heart
star
snake
dag
ddag
asterisk
oplus
ominus
otimes
odot
trianglez
diamondz
wcircle
wtriangle
wsquare
wdiamond
rm Roman
rmi Roman Italic
rmb Roman Bold
rmbi Roman Bold Italic
tt Typewriter
ttb Typewriter Bold
ss Sans Serif
ssb Sans Serif Bold
ssi Sans Serif Italic
psc PostScript Courier
psh PostScript Helvetica
psbd PostScript Bookman Demi
psncsr PostScript New Century Schlblk Roman
pszcmi PostScript ZapfChancery-MediumItalic
pszd
pltr Plotter Triplex Roman
pldr Plotter Duplex Roman
plsr Plotter Simplex Roman
plge Plotter Gothic English
plci Plotter Complex Italic
plss Plotter Simplex Script
The GRID and SHADE patterns should only be used for filling on PostScript printers, the grey levels and colors will work for both filling and color settings on any device.
Grid5
Grid4
Grid3
Grid2
Grid1
Grid
Shade5
Shade4
Shade3
Shade2
Shade1
Shade
Grey90
Grey20
Grey10
Grey5
Grey1
White
Black
Yellow
Magenta
Blue
Green
Red
wall.gle

Appendix C

GLE32

32 bit DOS version of GLE by Axel Rohde
——————————————
Introduction: (By Chris)
For a long time I have been explaining to people that a 32bit
dos version of GLE was not possible with currently available
compilers and libraries.
Clearly Axel has no appreciation for the impossible and has gone
ahead and compiled a version anyway (with absolutely no asistance
from me). On any 386 or better machine this version of GLE should
run without problems, it's main features are these:
1) No 640K memory restrictions.
2) Much faster.

Installation Quick guide: (By Chris)

1) FTP the binary distribution
ftp tui.marc.cri.nz
cd pub/gle/gle32
binary
mget gle32bi*.zip
2) Unzip them keeping the directory structure
cd c:“
pkunzip gle32bi1.zip -d
pkunzip gle32bi2.zip -d
pkunzip gle32bi3.zip -d
pkunzip gle32bi4.zip -d
pkunzip gle32bi5.zip -d
pkunzip gle32bi6.zip -d
3) Edit the batch file which tells gle where to find it's fonts
and also what sort of graphics card you have.
edit setgle32.bat
(change the disk and directory as appropriate)
4) Run the batch script
setgle32
5) Try out the new version
gle˙vga
6) Note most of the programs have been renamed to avoid conflicts!!!

Below are the more detailed instructions provided by Axel Rohde.
Read these carefully if you have any problems.

Installation-manual and documentation
for the 32-Bit DOS version of
GLE 3.3 b

by Axel Rohde

The source-Code of GLE is free and available from many FTP-sites (e.g. nic.funet.fi, ftp.informatik.uni-stuttgart.de). GLE 32 is a implementation of GLE for MS-DOS. It was compiled with the free port of the GNU C-compiler DJGPP by D.J. Delorie. The compiler itself and the DJGPP-compiled executables are running with the 32-bit DOS-extender GO32 by the same author. Thus, GLE 32 runs only on i386SX and above CPUs. GO32 comes with a co-processor-emulator for those without a i387xx Real-mode co-prozessor-emulators don't work with GO32.

GLE was compiled using Borland-C compatible libraries for text and graphics-modes and some filesystem calls.
There exists for the DJGPP specific graphics-library GRX from Csaba Biegl a emulation-library called BCCGRX from Hartmut Schirmer to replace calls of the Borland-Graphics-Interface (BGI) with GRX-calls. Hartmut has implemented the mouse-functionality, too, with GRX-calls.
Copyright statements are at the end of this file.

Properties of GLE 32

- All programs are running in the 386-protected-mode and therefore there is neither a limited 640kB adress-range nor a 64kB segmentation.
- 32-bit programs are running faster than their 16-bit-counterparts.
- There exists a multitude of GRX-graphics-drivers, e.g. for TSENG ET4000(W32), S3, 8514A, Cirrus Logic GD 542x, Trident 8900, Diamond Viper, ATI Ultra, ATI VGA and EGA. These drivers are highly configureable and can use flicker-free high resolution modes.

Installation

To understand the next lines, you should have a basic knowledge of the MS-DOS operating system and PC-hardware. Take a look into your DOS-manual and your hardware documentation in case of doubt.

The DOS-Extender GO32 1.11 has different modes of operation:

1) VCPI: VCPI is an extension to EMS. EMS can be installed by the driver EMM386.EXE of MS-DOS 5.0 and higher.
The (unoptimized) entry in the system-file CONFIG.SYS looks like the follwing lines:

```
DOS=high,umb
device=c:“dos“himem.sys
device=c:“dos“emm386.exe RAM 2048
```

This entry installs
a) 2 MB EMS in the memory area above 1MB,
b) a page-frame with a size of 64kB between the memory area of the graphics-board and the BIOS (upper memory).
Programs, that use VCPI-calls, can NOT run under Windows or the DOS-emulation of OS/2 2.x. Other products, such as QEMM386 can also be used.

2) DPMI: DPMI can be installed with special drivers like QDPMI (along with QEMM 6.0 or higher) or 386ToTheMax 7.x. Both the DOS-emulation of OS/2 2.x and Windows 3.x provide DPMI as a default. The DPMI-interface does not allows direct access to (graphics-)hardware. Only those programs, that don't use graphic-mode, can run with DPMI. I had a lot of total system crashes while running some of the text-mode programs of GLE under OS/2 2.1. I recommend to run GLE 32 under plain DOS.

To avoid name-conflicts between a 16-bit and a 32-bit version of GLE, all the programs and the environment-variables were renamed. All GLE-programs have now unix-style names like 'gle˙ps' (='psgle'- Postscript-output), 'gle˙vga' (='cgle' - VGA-Preview) etc. The names of the utilities end with '32' - 'manip32', 'contou32'....

In the example on the following lines, the progams are installed in the directory d:“gle32, the fonts are in d:“gle32“fonts. GLE 32 searches for its vector-fonts in the directory GLE˙TOP. Don't forget the trailing slash. In addition to this, GL32FONT points to the directory where the bitmap-fonts (you can see them in the status-line of the preview) can be found. The directory with the DOS-Extender GO32 and, if there's no numeric-prozessor installed, the co-prozessor-emulator, must be in the path-environment.

```
set GLE˙TOP=d:/gle32/
set gle32font=d:/gle32/grxfont
path=..your normal path..;d:“gle;
go32=driver d:/gle32/driver/vesa˙s3.grn gw 1024 gh 768 tw 80 th 25 nc 256
```

The configuration of graphics-drivers is a little bit more complicated. Please study the documentation of the Libraries GRX und BCCGRX and the README of GO32 in their directories. The environment GO32 sets den path-name and the mode of the driver an. This example installs the driver for an S3 graphics-board with a resolution of 1024 horizontal 768 vertical pixels and 256 colors.

There's a second way to install a graphics-mode. If the environment-variables GLE32WIDTH, GLE32HEIGHT and GLE32COLORS are set, the graphics-mode in the GO32 variable is overridden. You still have to specify a driver in the GO32 environment.

```
set GLE32WIDTH=800
set GLE32HEIGHT=600
set GLE32COLORS=16
```

There's a prepared batch-file 'setgle32.bat' to set all the environment-variables in the directory gle32.

To figure out, which modes are supported, try to run the program modetest in the directory gle32“driver“doc

!!!! WARNING !!!!

A wrong installed graphics-mode can DESTROY your MONITOR (and/or graphics board) if the refresh rate is too high!

USE THIS ON YOUR OWN RISK!!!

You should take a look into the manuals of your monitor and your graphics-adapter to figure out, which horizontal frequencies are supported. If the horizontal frequency of the monitor is 64 kHz or higher, you MAY feel save. (MY Monitor has a horizontal frequency of 64 kHz and supports a resolution of 1024x768 with a refresh rate up to 80Hz.) If you want to go save, don't set the environment go32 at all! This will use the normal (flickering) VGA-mode on a VGA-compatible adapter.

RESTRICTIONS and BUGS

1) The vector-fonts of the 32-bit-version are NOT compatible to their
   16-bit-counterparts. They may be compatible to fonts that were created
   under other 32-bit operating-systems.
2) The on-line-help of gle˙vga is usable but may sometimes look different
   compared to the original.
3) Makefmt and fbuild are missing. DJGPP's Library lacks ecvt().
   Both programs are used to calculate vector-fonts in the Unix-version
   from the source-distribution. Both programs are NOT included in the
   16-bit DOS-version, too. This package includes all (allready calculated)
   fonts from the Unix-source distribution. They were calculated under Linux,
   a free Unix-implementation for i386-PC's and higher. Since a few months,
   there exists an archive with my patches (at the ftp-sites sunsite.unc.edu
   and nic.funet.fi) to compile GLE 3.3b under Linux.
4) The DVI-drivers are not testet! (I use Ghostscript or HP2XX for printing
   and converting. Both programs are freely avaiable. Gle˙ps and gle˙hpgl
   run properly.)
5) Surface (surf˙vga) hanged under unknown circumstances while loading
   one data-file. surf˙vga can be stopped by pressing Control-Pause.
   If this happens, load the data-file into an editor, save it, and try it
   again.

Access to the DJGPP patches for the Source

I'll release them in the near future after contacting Chris Pugmire.
You need a fixed version of Hartmut Schirmers BCC2GRX-library
to (properly) compile gle˙vga and surf˙vga. This will be released soon.

Postscript Documentation

The complete Postscript documentaion is in the directory
gle32“postscri.doc. I made diff-files to patch them in a
Ghostscript-printable state. For further information, take
a look into the file gle32“postscri.doc“readme.pat. The 'patch'
utility from the 1.11 release of DJGPP is included in this package.

LEGAL STUFF

Copyright-holders are:

GLE: unknown to me, take a look into the original
documentation in the directory gle32“gle.doc“ and ask
Chris Pugmire

DJGPP and GO32: D. J. Delorie, GNU LIBRARY GENERAL PUBLIC LICENSE and
GNU PUBLIC LICENSE,
see the files in the directory gle32“go32.doc

GRX: Csaba Biegl, GNU LIBRARY GENERAL PUBLIC LICENSE,
(see gle32“driver“doc“grx.doc)

BCC2GRX: Hartmut Schirmer, GNU LIBRARY GENERAL PUBLIC LICENSE,
(see gle32“driver“doc“bccgrx.doc)

MS-DOS: Microsoft Corporation (if you haven't guessed...)

DJGPP, GRX and BCC2GRX are available from many ftp-sites. For examples see
the file gle32“driver“doc“bccgrx.doc.

Bug-reports are wellcome (to me and Chris Pugmire). It can not be guaranteed
that they can be fixed.

Axel Rohde, 19.1.94, email: rohde@physik.uni-kiel.d400.de

Chris Pugmire's email adress: chrisp@marc.cri.nz

gle32b.txt

Appendix D

Fonttables

```
!From: TREV::SRPDBRS        27-JAN-1992 16:30:58.78
!To: GRV::SRGHCXP
!CC:
!Subj: Gle font viewer - here's a going one
!Chris,
! thanks for the first approximation of the 'see a font' program
!   - this is a working (ie tested and going) version.It could be
!   useful.
! Bruce
!PS - pszd isn't available on (my) pc so it didn't work there !!
!————————————————————————————————————
size 18 24
text “chardef–˜”–“movexy–.4”–0””
sub tt a$
 write a$
 rmove 0 -1.2
end sub

set font pszd
amove .5 23.5
for j = 0 to 15
 for i = 0 to 15
! note: no spaces in expression below. (exept inside quotes)
 xx$ = ” “char–”+num1$(j*16+i)+” ””
 write xx$
 rmove .9 0
 next i
amove .5 (23.5-(1.3*(j+1)))
next j

amove 14 .5
set hei .2 font ss
write ”DING2.GLE - BRS ”+DATE$()
```

showfont.gle

Font : rm Roman

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6	<	=	>	?	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
8	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_	‘	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
12	x	y	z	{	|	}	~													

Font : rmb Roman Bold

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8	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_	‘	a	b	c
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Font : rmi Roman Italic

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6	<	=	>	?	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
8	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_	‘	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
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Font : ss San Serif

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8	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_	‘	a	b	c
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Font : ssb San Serif Bold

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8	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_	‘	a	b	c
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Font : ssi San Serif Italic

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6	*<*	*=*	*>*	*?*	*@*	*A*	*B*	*C*	*D*	*E*	*F*	*G*	*H*	*I*	*J*	*K*	*L*	*M*	*N*	*O*
8	*P*	*Q*	*R*	*S*	*T*	*U*	*V*	*W*	*X*	*Y*	*Z*	*[*	**	*]*	*^*	*_*	*‘*	*a*	*b*	*c*
10	*d*	*e*	*f*	*g*	*h*	*i*	*j*	*k*	*l*	*m*	*n*	*o*	*p*	*q*	*r*	*s*	*t*	*u*	*v*	*w*
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Font : tt — Typewriter

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8	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_	‘	a	b	c
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Font : ttb — Typewriter Bold

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Font : tti

Typewriter Italic

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8	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_	‘	a	b	c
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Font : texcmb

TEXComputer Modern Bold

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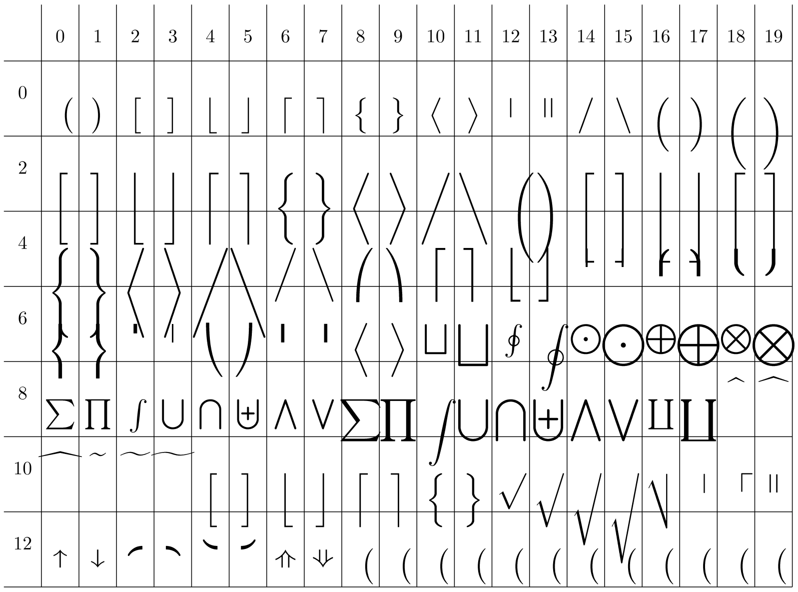
Font : texcmex

TEXComputer Modern Extensible



Font : texcmitt

TEXComputer Modern Italic Typewriter

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Font : texcmmi TEXComputer Modern Maths Italic

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2	κ	λ	μ	ν	ξ	π	ρ	σ	τ	υ	ϕ	χ	ψ	ω	ε	ϑ	ϖ	ϱ	ς	φ
4	$\leftharpoonup$	$\leftharpoondown$	$\rightharpoonup$	$\rightharpoondown$	‘	’	$\triangleright$	$\triangleleft$	0	1	2	3	4	5	6	7	8	9	.	,
6	$<$	$/$	$>$	$\star$	∂	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
8	P	Q	R	S	T	U	V	W	X	Y	Z	$\flat$	$\natural$	$\sharp$	$\smile$	$\frown$	ℓ	a	b	c
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12	x	y	z	$\imath$	$\jmath$	$\wp$	$\vec{}$	$\frown$	$\varGamma$	$\varGamma$	$\varGamma$	$\varGamma$	$\varGamma$	$\varGamma$	$\varGamma$	$\varGamma$	$\varGamma$	$\varGamma$	$\varGamma$	$\varGamma$

Font : texcmr TEXComputer Modern Roman

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8	P	Q	R	S	T	U	V	W	X	Y	Z	[	“	]	ˆ	˙	‘	a	b	c
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Font : texcmss TEXComputer Modern Sans Serif

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6	¡	=	¿	?	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
8	P	Q	R	S	T	U	V	W	X	Y	Z	[	“	]	ˆ	˙	‘	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
12	x	y	z	–	—	˝	˜	¨	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ

Font : texcmssb TEXComputer Modern Sans Serif Bold

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0	**Γ**	**Δ**	**Θ**	**Λ**	**Ξ**	**Π**	**Σ**	**ϒ**	**Φ**	**Ψ**	**Ω**	**ff**	**fi**	**fl**	**ffi**	**ffl**	**ı**	**ȷ**	`	´
2	ˇ	˘	¯	˚	¸	**ß**	**æ**	**œ**	**ø**	**Æ**	**Œ**	**Ø**	-	**!**	**”**	**#**	**$**	**%**	**&**	**’**
4	**(**	**)**	*	**+**	**,**	**-**	**.**	**/**	**0**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**:**	**;**
6	**¡**	**=**	**¿**	**?**	**@**	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**I**	**J**	**K**	**L**	**M**	**N**	**O**
8	**P**	**Q**	**R**	**S**	**T**	**U**	**V**	**W**	**X**	**Y**	**Z**	**[**	**“**	**]**	ˆ	˙	**‘**	**a**	**b**	**c**
10	**d**	**e**	**f**	**g**	**h**	**i**	**j**	**k**	**l**	**m**	**n**	**o**	**p**	**q**	**r**	**s**	**t**	**u**	**v**	**w**
12	**x**	**y**	**z**	–	—	˝	˜	¨	**Γ**	**Γ**	**Γ**	**Γ**	**Γ**	**Γ**	**Γ**	**Γ**	**Γ**	**Γ**	**Γ**	**Γ**

Font : texcmssi TEXComputer Modern Sans Serif Italic

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0	Γ	Δ	Θ	Λ	Ξ	Π	Σ	ϒ	Φ	Ψ	Ω	ff	fi	fl	ffi	ffl	ı	ȷ	`	´
2	ˇ	˘	¯	˚	¸	ß	æ	œ	ø	Æ	Œ	Ø	-	!	”	#	$	%	&	’
4	(	)	*	+	,	-	.	/	0	1	2	3	4	5	6	7	8	9	:	;
6	¡	=	¿	?	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
8	P	Q	R	S	T	U	V	W	X	Y	Z	[	“	]	ˆ	˙	‘	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
12	x	y	z	–	—	˝	˜	¨	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ

Font : texcmsy TEXComputer Modern Symbol

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0	−	·	×	∗	÷	⋄	±	∓	⊕	⊖	⊗	⊘	⊙	◯	∘	•	≍	≡	⊆	⊇
2	≤	≥	⪯	⪰	∼	≈	⊂	⊃	≪	≫	≺	≻	←	→	↑	↓	↔	↗	↘	≃
4	⇐	⇒	⇑	⇓	⇔	↖	↙	∝	′	∞	∈	∋	△	▽	/	'	∀	∃	¬	∅
6	ℜ	ℑ	⊤	⊥	ℵ	$\mathcal{A}$	$\mathcal{B}$	$\mathcal{C}$	$\mathcal{D}$	$\mathcal{E}$	$\mathcal{F}$	$\mathcal{G}$	$\mathcal{H}$	$\mathcal{I}$	$\mathcal{J}$	$\mathcal{K}$	$\mathcal{L}$	$\mathcal{M}$	$\mathcal{N}$	$\mathcal{O}$
8	$\mathcal{P}$	$\mathcal{Q}$	$\mathcal{R}$	$\mathcal{S}$	$\mathcal{T}$	$\mathcal{U}$	$\mathcal{V}$	$\mathcal{W}$	$\mathcal{X}$	$\mathcal{Y}$	$\mathcal{Z}$	∪	∩	⊎	∧	∨	⊢	⊣	⌊	⌋
10	⌈	⌉	{	}	⟨	⟩	$\vert$	$\Vert$	↕	⇕	\	≀	√	⨿	∇	∫	⊔	⊓	⊑	⊒
12	§	†	‡	¶	♣	♢	♡		−	−	−	−	−	−	−	−	−	−	−	−

Font : texcmti

TEXComputer Modern Text Italic

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
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2	ˇ	˘	¯	˚	¸	ß	æ	œ	ø	Æ	Œ	Ø	-	!	”	#	£	%	&	’
4	(	)	*	+	,	-	.	/	0	1	2	3	4	5	6	7	8	9	:	;
6	¡	=	¿	?	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
8	P	Q	R	S	T	U	V	W	X	Y	Z	[	“	]	ˆ	˙	‘	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
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Font : texcmtt

TEXComputer Modern Typewriter Text

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2	ˇ	˘	¯	˚	¸	ß	æ	œ	ø	Æ	Œ	Ø	␣	!	"	#	$	%	&	’
4	(	)	*	+	,	-	.	/	0	1	2	3	4	5	6	7	8	9	:	;
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8	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_	‘	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
12	x	y	z	{	|	}	~	¨	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ

Font : plba

Plotter Block Ascii

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
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2	!	!	!	!	!	!	!	!	!	!	!	!	!	!	"	#	$	%	&	'
4	(	)	*	+	,	-	.	/	0	1	2	3	4	5	6	7	8	9	:	;
6	<	=	>	?	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
8	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_	`	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
12	x	y	z	{	¦	}	~	⇦	!	!	!	!	!	!	!	!	!	!	!	!

Font : plcc

Plotter Complex Cartographic

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8	П	Р	С	Т	У	Ф	Х	Ц	Ч	Ш	Щ	[	!	]	!	!	‘	а	б	в
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Font : plcg

Plotter Complex Gothic

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8	Π	P	Σ	T	Υ	Φ	X	Ψ	Ω	*A*	*B*	[	!	]	!	!	‘	α	β	γ
10	δ	ε	ζ	η	ϑ	ι	κ	λ	μ	ν	ξ	ο	π	ρ	σ	τ	υ	φ	χ	ψ
12	ω	*a*	*b*	{	[	}	°	!	!	!	!	!	!	!	!	!	!	!	!	!

Font : plci

Plotter Complex Italic

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4	(	)	⟩	{	,	]	.	/	0	1	2	3	4	5	6	7	8	9	:	;
6	<	}	>	?	@	*A*	*B*	*C*	*D*	*E*	*F*	*G*	*H*	*I*	*J*	*K*	*L*	*M*	*N*	*O*
8	*P*	*Q*	*R*	*S*	*T*	*U*	*V*	*W*	*X*	*Y*	*Z*	[	!	]	!	!	‘	*a*	*b*	*c*
10	*d*	*e*	*f*	*g*	*h*	*i*	*j*	*k*	*l*	*m*	*n*	*o*	*p*	*q*	*r*	*s*	*t*	*u*	*v*	*w*
12	*x*	*y*	*z*	{	[	}	°	!	!	!	!	!	!	!	!	!	!	!	!	!

Font : plcr

Plotter Complex Roman

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
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2	!	!	!	!	!	!	!	!	!	!	!	!	!	!	″	±	*	%	∓	′
4	(	)	〉	{	,	]	.	/	0	1	2	3	4	5	6	7	8	9	:	;
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8	P	Q	R	S	T	U	V	W	X	Y	Z	[	!	]	!	!	‘	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
12	x	y	z	{	[	}	°	!	!	!	!	!	!	!	!	!	!	!	!	!

Font : plcs

Plotter Complex Script

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
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8	*P*	*Q*	*R*	*S*	*T*	*U*	*V*	*W*	*X*	*Y*	*Z*	[	!	]	!	!	‘	*a*	*b*	*c*
10	*d*	*e*	*f*	*g*	*h*	*i*	*j*	*k*	*l*	*m*	*n*	*o*	*p*	*q*	*r*	*s*	*t*	*u*	*v*	*w*
12	*x*	*y*	*z*	{	[	}	°	!	!	!	!	!	!	!	!	!	!	!	!	!

Font : pldr

Plotter Duplex Roman

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
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4	(	)	"	+	,	–	.	/	0	1	2	3	4	5	6	7	8	9	:	;
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8	P	Q	R	S	T	U	V	W	X	Y	Z	[	!	]	!	!	‘	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
12	x	y	z	{	*	}	&	!	!	!	!	!	!	!	!	!	!	!	!	!

Font : plge

Plotter Gothic English

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
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8	P	Q	R	S	T	U	V	W	X	Y	Z	[	!	]	!	!	‘	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
12	x	y	z	{	*	}	&	!	!	!	!	!	!	!	!	!	!	!	!	!

Font : plgg

Plotter Gothic German

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
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2	!	!	!	!	!	!	!	!	!	!	!	!	!	!	’	!	$	%	!	‘
4	(	)	″	+	,	−	.	/	0	1	2	3	4	5	6	7	8	9	:	;
6	<	=	>	?	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
8	P	Q	R	S	T	U	V	W	X	Y	Z	[	!	]	!	!	‘	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	ſ	t	u	v	w
12	x	y	z	{	*	}	&	!	!	!	!	!	!	!	!	!	!	!	!	!

Font : plgi

Plotter Gothic Italian

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
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2	!	!	!	!	!	!	!	!	!	!	!	!	!	!	’	!	$	%	!	‘
4	(	)	″	+	,	−	.	/	0	1	2	3	4	5	6	7	8	9	:	;
6	<	=	>	?	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
8	P	Q	R	S	T	U	V	W	X	Y	Z	[	!	]	!	!	‘	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
12	x	y	z	{	*	}	&	!	!	!	!	!	!	!	!	!	!	!	!	!

Font : plsa

Plotter Simplex Ascii

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0	!	!	!	!	!	!	!	!	!	!	!	!	!	!	!	!	!	!	!	!
2	!	!	!	!	!	!	!	!	!	!	!	!	!	!	"	#	$	%	&	'
4	(	)	*	+	,	-	.	/	0	1	2	3	4	5	6	7	8	9	:	;
6	<	=	>	?	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
8	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_	`	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
12	x	y	z	{	|	}	~	←	!	!	!	!	!	!	!	!	!	!	!	!

Font : plsg

Plotter Simplex German

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
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2	!	!	!	!	!	!	!	!	!	!	!	!	!	!	''	#	$	%	&	'
4	(	)	*	+	,	−	.	/	0	1	2	3	4	5	6	7	8	9	:	;
6	<	=	>	?	@	A	B	Γ	Δ	E	Z	H	Θ	I	K	Λ	M	N	Ξ	O
8	Π	P	Σ	T	ϒ	Φ	X	Ψ	Ω	𝒜	ℬ	[	!	]	!	!	‘	α	β	γ
10	δ	ε	ζ	η	ϑ	ι	κ	λ	μ	ν	ξ	o	π	ρ	σ	τ	υ	φ	χ	ψ
12	ω	𝒶	𝒷	{	|	}	°	!	!	!	!	!	!	!	!	!	!	!	!	!

Font : plsr

Plotter Simplex Roman

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
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2	!	!	!	!	!	!	!	!	!	!	!	!	!	!	"	#	$	%	&	'
4	(	)	*	+	,	–	.	/	0	1	2	3	4	5	6	7	8	9	:	;
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8	P	Q	R	S	T	U	V	W	X	Y	Z	[	!	]	!	!	‘	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
12	x	y	z	{	|	}	°	!	!	!	!	!	!	!	!	!	!	!	!	!

Font : plss

Plotter Simplex Script

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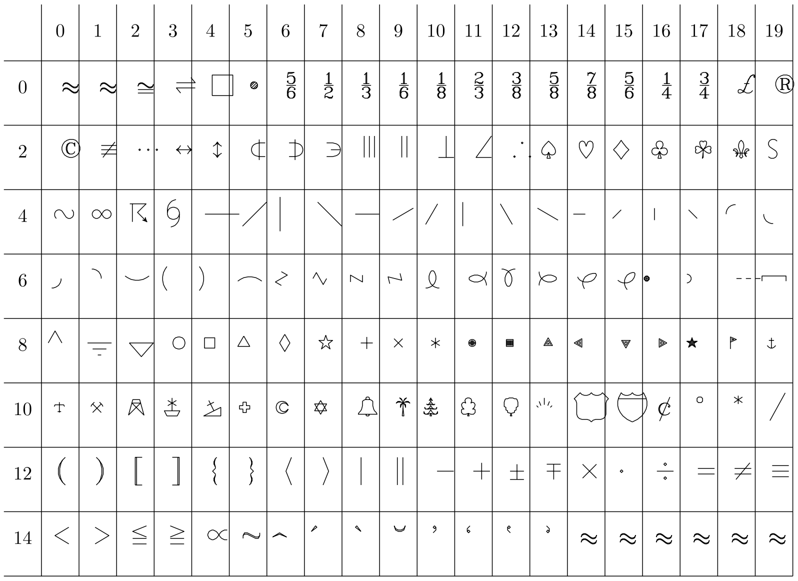
8	P	Q	R	S	T	U	V	W	X	Y	Z	[	!	]	!	!	‘	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
12	x	y	z	{	|	}	°	!	!	!	!	!	!	!	!	!	!	!	!	!

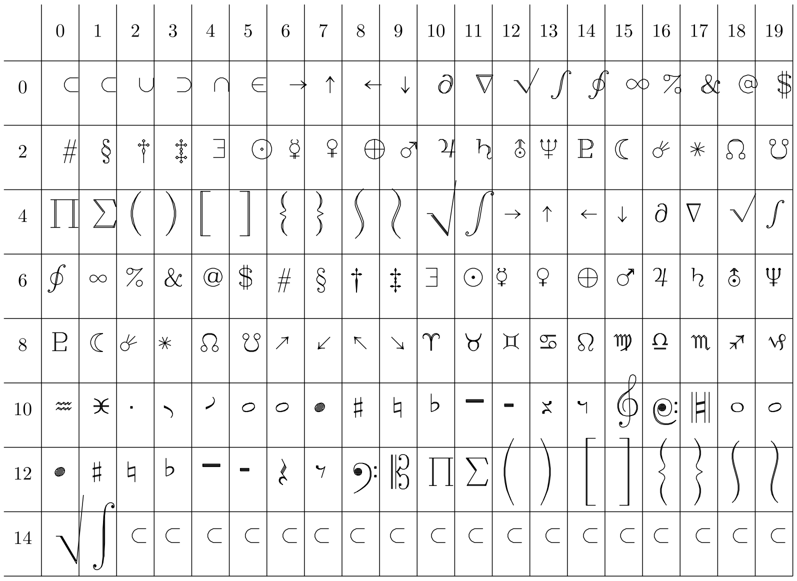
Font : plsym1

Plotter Symbols one



Font : plsym2

Plotter Symbols two



Font : plti

Plotter Triplex Italic

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
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8	P	Q	R	S	T	U	V	W	X	Y	Z	[	!	]	!	!	‘	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
12	x	y	z	{	*	}	&	!	!	!	!	!	!	!	!	!	!	!	!	!

Font : pltr

Plotter Triplex Roman

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8	P	Q	R	S	T	U	V	W	X	Y	Z	[	!	]	!	!	‘	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
12	x	y	z	{	*	}	&	!	!	!	!	!	!	!	!	!	!	!	!	!

Font : psagb PostScript AvantGarde-Book

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8	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_	‘	a	b	c
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Font : psagbo PostScript AvantGarde-BookOblique

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8	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_	‘	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
12	x	y	z	{	|	}	~													

Font : psagd PostScript AvantGarde-Demi

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8	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_	‘	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
12	x	y	z	{	|	}	~													

Font : psagdo PostScript AvantGarde-DemiOblique

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4	*(*	*)*	***	*+*	*,*	*-*	*.*	*/*	*0*	*1*	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*:*	*;*
6	*<*	*=*	*>*	*?*	*@*	*A*	*B*	*C*	*D*	*E*	*F*	*G*	*H*	*I*	*J*	*K*	*L*	*M*	*N*	*O*
8	*P*	*Q*	*R*	*S*	*T*	*U*	*V*	*W*	*X*	*Y*	*Z*	*[*	**	*]*	*^*	*_*	*‘*	*a*	*b*	*c*
10	*d*	*e*	*f*	*g*	*h*	*i*	*j*	*k*	*l*	*m*	*n*	*o*	*p*	*q*	*r*	*s*	*t*	*u*	*v*	*w*
12	*x*	*y*	*z*	*{*	*|*	*}*	*~*													

Font : psbd PostScript Bookman-Demi

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8	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_	‘	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
12	x	y	z	{	|	}	~													

Font : psbdi PostScript Bookman-DemiItalic

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8	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_	‘	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
12	x	y	z	{	|	}	~													

Font : psbli PostScript Bookman-LightItalic

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8	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_	‘	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
12	x	y	z	{	|	}	~													

Font : psc PostScript Courier

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8	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_	‘	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
12	x	y	z	{	|	}	~													

Font : pscb PostScript Courier-Bold

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8	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_	‘	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
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Font : pscbo PostScript Courier-BoldOblique

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8	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_	‘	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
12	x	y	z	{	|	}	~													

Font : psco

PostScript Courier-Oblique

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8	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_	‘	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
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Font : psh

PostScript Helvetica

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8	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_	‘	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
12	x	y	z	{	|	}	~													

Font : pshb — PostScript Helvetica-Bold

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8	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_	‘	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
12	x	y	z	{	|	}	~													

Font : pshbo — PostScript Helvetica-BoldOblique

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8	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_	‘	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
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Font : psho

PostScript Helvetica-Oblique

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8	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_	‘	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
12	x	y	z	{	|	}	~													

Font : pshc

PostScript Helvetica-Condensed

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
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2	ˇ	˘	¯	˚	¸	ß	æ	œ	ø	Æ	Œ	Ø	-	!	”	#	$	%	&	’
4	(	)	*	+	,	-	.	/	0	1	2	3	4	5	6	7	8	9	:	;
6	¡	=	¿	?	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
8	P	Q	R	S	T	U	V	W	X	Y	Z	[	“	]	ˆ	˙	‘	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
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Font : pshcb

PostScript Helvetica-Condensed-Bold

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
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2	ˇ	˘	¯	˚	¸	ß	æ	œ	ø	Æ	Œ	Ø	-	!	”	#	$	%	&	’
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8	P	Q	R	S	T	U	V	W	X	Y	Z	[	“	]	ˆ	˙	‘	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
12	x	y	z	–	—	˝	˜	¨	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ

Font : pshcdo

PostScript Helvetica-Condensed-BoldOblique

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2	ˇ	˘	¯	˚	¸	ß	æ	œ	ø	Æ	Œ	Ø	-	!	”	#	$	%	&	’
4	(	)	*	+	,	-	.	/	0	1	2	3	4	5	6	7	8	9	:	;
6	¡	=	¿	?	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
8	P	Q	R	S	T	U	V	W	X	Y	Z	[	“	]	ˆ	˙	‘	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
12	x	y	z	–	—	˝	˜	¨	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ

Font : pshn

PostScript Helvetica-Narrow

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
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2	ˇ	˘	¯	˚	¸	ß	æ	œ	ø	Æ	Œ	Ø	‐	!	”	#	$	%	&	’
4	(	)	*	+	,	-	.	/	0	1	2	3	4	5	6	7	8	9	:	;
6	¡	=	¿	?	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
8	P	Q	R	S	T	U	V	W	X	Y	Z	[	“	]	ˆ	˙	‘	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
12	x	y	z	–	—	˝	˜	¨	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ

Font : pshnb

PostScript Helvetica-Narrow-Bold

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
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2	ˇ	˘	¯	˚	¸	ß	æ	œ	ø	Æ	Œ	Ø	‐	!	”	#	$	%	&	’
4	(	)	*	+	,	-	.	/	0	1	2	3	4	5	6	7	8	9	:	;
6	¡	=	¿	?	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
8	P	Q	R	S	T	U	V	W	X	Y	Z	[	“	]	ˆ	˙	‘	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
12	x	y	z	–	—	˝	˜	¨	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ

Font : pshnbo

PostScript Helvetica-Narrow-BoldOblique

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2	ˇ	˘	¯	˚	¸	ß	æ	œ	ø	Æ	Œ	Ø	-	!	”	#	$	%	&	’
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8	P	Q	R	S	T	U	V	W	X	Y	Z	[	“	]	ˆ	˙	‘	a	b	c
10	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
12	x	y	z	–	—	˝	˜	¨	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ

Font : pshno

PostScript Helvetica-NarrowOblique

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
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8	P	Q	R	S	T	U	V	W	X	Y	Z	[	“	]	ˆ	˙	‘	a	b	c
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Font : psncsb PostScript NewCenturySchlbk-Bold

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8	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_	‘	a	b	c
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12	x	y	z	{	|	}	~													

Font : psncsbi PostScript NewCenturySchlbk-BoldItalic

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