

```

%!fontmenu.ps

userdict begin

{/Hershey-Script findfont pop} errored {
  { systemdict begin
    [(HrshScr.ps) (HrshScrN.ps) (HrshGoth.ps) (HrshGrk.ps)]
    {(NEWSHOME) getenv (%/fonts/%) sprintf run} forall
  end } fork waitprocess
} if

/PieSliderMenu PieMenu
dictbegin
  /LastMenuArg null def
  /ArgDistance null def
  /ArgDivisions 5 def
  /HiLiteWithArrow? false def
dictend
classbegin

  /DragProc {
    ChildMenu null eq {
      MenuGSave
      PieRadius dup translate
      CurrentEvent begin XLocation YLocation end      % x y
      SetMenuValue

      MenuValue PaintedValue ne {
        PaintMenuValue
        trackmenuarg
      } {
        MenuArg LastMenuArg ne {
          trackmenuarg
        } if
      } ifelse

      grestore
    } if
  } def

  /popdown {
    gsave fboverlay setcanvas erasepage grestore
    /popdown super send
  } def

  /trackmenuarg {
    gsave fboverlay setcanvas erasepage grestore
    MenuArg null ne {
      MenuItems MenuValue get dup type /dicttype eq {
        self
        /track 2 index /Key get send
      } { pop } ifelse
    } if
  } def

  /SetMenuValue { % x y => -
    /SetMenuValue super send
    /MenuArg

```

```

MenuValue dup null ne {
  MenuItems exch get type /dicttype eq {
    PieDistance NumbRadius sub ArgDistance div floor
    ArgDivisions 1 sub min
  } {
    pop null
  } ifelse
} if
def
} def

/layout {
  /layout super send
  /ArgDistance LabelRadius Gap sub NumbRadius sub ArgDivisions div def
} def

/PaintMenuItems {
  MenuGSave
  false setprintertermatch
  PieRadius dup translate

  MenuItems {                                % item
  begin
    Key X Y ShowThing

% There seems to be a NeWS line clipping bug with lines with one
% endpoint the right of the hole in the center of the menu ...

    1 setlinequality % Solves SOME of the line glitches ...

    SliceWedges {
      gsave
      newpath
      ang PieSliceWidth 2 div sub rotate
      NumbRadius 1 sub 0 moveto
      LabelRadius Gap sub 0 lineto
      MenuTextColor setcolor
      0 setlinecap
      4 setlinewidth
      stroke
      1 setlinecap
      3 setlinewidth
      NumbRadius 0 translate
      ArgDivisions 1 add {
        0 -5 moveto
        0 5 lineto
        stroke
        ArgDistance 0 translate
      } repeat
      grestore
    } if
  end
} forall
grestore
} def

classend def

```

%%%

```
/FontTrackThing Object
dictbegin
  /TrackFontName null def
  /TrackFontSizes null def
  /TrackFonts null def
  /LabelFontSize 18 def
  /LabelFont null def
  /Label null def
dictend
classbegin
  /paint {
    gsave
      LabelFont setfont
      0 LabelFont fontdescent rmoveto
      false setprintermatch
      0 setgray
      Label show
    grestore
  } def

  /size { % - => w h
    gsave
      LabelFont setfont
      false setprintermatch
      Label stringwidth pop currentfont fontheight
    grestore
  } def

  /new { % Label FontName [Font Sizes]
    /new super send begin
      /TrackFontSizes exch def
      /TrackFontName exch def
      /Label exch def
      /TrackFonts [
        TrackFontSizes { TrackFontName findfont exch scalefont } forall
      ] def
      /LabelFont TrackFontName findfont LabelFontSize scalefont def
    currentdict end
  } def

  /track { % MenuItem Menu => -
    gsave
    exch begin
      begin
        fboverlay setcanvas
        MenuX PieRadius add MenuY PieRadius add translate
        MenuArg
        /LastMenuArg MenuArg def
      end
      TrackFonts 1 index get setfont
      TrackFontSizes exch get (% point) sprintf
      false setprintermatch
      dup stringbbox points2rect
      x .55 mul y .55 mul moveto
      -.35 mul exch -.5 mul exch rmoveto
      pop pop
```

```
        show
    end
    grestore
} def
classend def
```

%%%

```
/myHelvetica
  (Helvetica) /Helvetica
  [10 12 14 18 24]
  /new FontTrackThing send def
/myHelvetica-Bold
  (Bold) /Helvetica-Bold
  [10 12 14 18 24]
  /new FontTrackThing send def
/myHelvetica-Oblique
  (Oblique) /Helvetica-Oblique
  [10 12 14 18 24]
  /new FontTrackThing send def
/myHelvetica-BoldOblique
  (BoldOblique) /Helvetica-BoldOblique
  [10 12 14 18 24]
  /new FontTrackThing send def

/funkyhelveticamenu
  [ myHelvetica myHelvetica-Oblique myHelvetica-BoldOblique myHelvetica-Bold ]
  [ { currentkey begin TrackFontName TrackFontSizes end
    MenuArg get
    setfontnamesize } ]
  /new PieSliderMenu send def
funkyhelveticamenu /LabelMinRadius 117 put
funkyhelveticamenu /LabelRadiusPerKey 0 put
```

%%%

```
/myTimes
  (Times-Roman) /Times-Roman
  [10 12 14 18 24]
  /new FontTrackThing send def
/myTimes-Bold
  (Bold) /Times-Bold
  [10 12 14 18 24]
  /new FontTrackThing send def
/myTimes-Italic
  (Italic) /Times-Italic
  [10 12 14 18 24]
  /new FontTrackThing send def
/myTimes-BoldItalic
  (BoldItalic) /Times-BoldItalic
  [10 12 14 18 24]
  /new FontTrackThing send def

/funkytimesmenu
  [ myTimes myTimes-Italic myTimes-BoldItalic myTimes-Bold ]
  [ { currentkey begin TrackFontName TrackFontSizes end
    MenuArg get
    setfontnamesize } ]
```

```
/new PieSliderMenu send def
funkytimesmenu /LabelMinRadius 107 put
funkytimesmenu /LabelRadiusPerKey 0 put
```

%%%

```
/myCourier
(Courier) /Courier
[10 12 14 16 18 24]
/new FontTrackThing send def
/myCourier-Bold
(Bold) /Courier-Bold
[10 12 14 16 18 24]
/new FontTrackThing send def
/myCourier-Oblique
(Oblique) /Courier-Oblique
[10 12 14 16 18 24]
/new FontTrackThing send def
/myCourier-BoldOblique
(BoldOblique) /Courier-BoldOblique
[10 12 14 16 18 24]
/new FontTrackThing send def
```

```
/funkycouriermenu
[ myCourier myCourier-Oblique myCourier-BoldOblique myCourier-Bold ]
[ { currentkey begin TrackFontName TrackFontSizes end
  MenuArg get
  setfontnamesize } ]
/new PieSliderMenu send def
funkycouriermenu /LabelMinRadius 142 put
funkycouriermenu /ArgDivisions 6 put
```

%%%

```
/myScript
(Script) /Hershey-Script
[10 11 12 13 14 15 16 17 18 19 20]
/new FontTrackThing send def
/myGreek
(Greek) /Hershey-Greek
[10 11 12 13 14 15 16 17 18 19 20]
/new FontTrackThing send def
/myNarrow
(Narrow) /Hershey-Script-Narrow
[10 11 12 13 14 15 16 17 18 19 20]
/new FontTrackThing send def
/myGothic
(Gothic) /Hershey-Gothic
[10 11 12 13 14 15 16 17 18 19 20]
/new FontTrackThing send def
```

```
/funkyhersheymenu
[ myScript myGreek myNarrow myGothic ]
[ { currentkey begin TrackFontName TrackFontSizes end
  MenuArg get
  setfontnamesize } ]
/new PieSliderMenu send def
funkyhersheymenu /LabelMinRadius 142 put
```

```
funkyhershymenu /ArgDivisions 11 put
```

```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

```
/fontmenu
```

```
[  
  [(Helvetica) /Helvetica findfont 24 scalefont]  
  [(Courier) /Courier findfont 24 scalefont]  
  [(Times-Roman) -3 0] /Times-Roman findfont 24 scalefont]  
  [(Hershey) /Hershey-Script findfont 24 scalefont]  
]
```

```
[  
  funkyhelveticamenu  
  funkycouriermenu  
  funkytimesmenu  
  funkyhershymenu  
]
```

```
/new PieMenu send def
```

```
/setfontnamesize {
```

```
  /changefont
```

```
  userdict MenuRef cvn get TargetDict exch get /Text get send
```

```
} def
```

```
end % userdict
```