



APPENDIX

2

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Creating the Charity Data Set

```

data Charity;
input School $ 1-7 Year 9-12 Name $ 14-20 moneyRaised 22-26
      hoursVolunteered 28-29;
      format moneyRaised dollar8.2;
      format hoursVolunteered f3.0;
      format Year yrFmt.;
      format School schFmt.;
      label School = "Schools";
      label Year = "Years";
datalines;
Monroe 1992 Allison 31.65 19
Monroe 1992 Barry 23.76 16
Monroe 1992 Candace 21.11 5
Monroe 1992 Danny 6.89 23
Monroe 1992 Edward 53.76 31
Monroe 1992 Fiona 48.55 13
Monroe 1992 Gert 24.00 16
Monroe 1992 Harold 27.55 17
Monroe 1992 Ima 5.98 9
Monroe 1992 Jack 20.00 23

```

Monroe	1992	Katie	22.11	2
Monroe	1992	Lisa	18.34	17
Monroe	1992	Tonya	55.16	40
Monroe	1992	Max	26.77	34
Monroe	1992	Ned	28.43	22
Monroe	1992	Opal	32.66	14
Monroe	1993	Patsy	18.33	18
Monroe	1993	Quentin	16.89	15
Monroe	1993	Randall	12.98	17
Monroe	1993	Sam	15.88	5
Monroe	1993	Tyra	21.88	23
Monroe	1993	Myrtle	47.33	26
Monroe	1993	Frank	41.11	22
Monroe	1993	Cameron	65.44	14
Monroe	1993	Vern	17.89	11
Monroe	1993	Wendell	23.00	10
Monroe	1993	Bob	26.88	6
Monroe	1993	Leah	28.99	23
Monroe	1994	Becky	30.33	26
Monroe	1994	Sally	35.75	27
Monroe	1994	Edgar	27.11	12
Monroe	1994	Dawson	17.24	16
Monroe	1994	Lou	5.12	16
Monroe	1994	Damien	18.74	17
Monroe	1994	Mona	27.43	7
Monroe	1994	Della	56.78	15
Monroe	1994	Monique	29.88	19
Monroe	1994	Carl	31.12	25
Monroe	1994	Reba	35.16	22
Monroe	1994	Dax	27.65	23
Monroe	1994	Gary	23.11	15
Monroe	1994	Suzie	26.65	11
Monroe	1994	Benito	47.44	18
Monroe	1994	Thomas	21.99	23
Monroe	1994	Annie	24.99	27
Monroe	1994	Paul	27.98	22
Monroe	1994	Alex	24.00	16
Monroe	1994	Lauren	15.00	17
Monroe	1994	Julia	12.98	15
Monroe	1994	Keith	11.89	19
Monroe	1994	Jackie	26.88	22
Monroe	1994	Pablo	13.98	28
Monroe	1994	L.T.	56.87	33
Monroe	1994	Willard	78.65	24
Monroe	1994	Kathy	32.88	11
Monroe	1994	Abby	35.88	10
Kennedy	1992	Arturo	34.98	14
Kennedy	1992	Grace	27.55	25
Kennedy	1992	Winston	23.88	22
Kennedy	1992	Vince	12.88	21
Kennedy	1992	Claude	15.62	5
Kennedy	1992	Mary	28.99	34
Kennedy	1992	Abner	25.89	22
Kennedy	1992	Jay	35.89	35

Kennedy	1992	Alicia	28.77	26
Kennedy	1992	Freddy	29.00	27
Kennedy	1992	Eloise	31.67	25
Kennedy	1992	Jenny	43.89	22
Kennedy	1992	Thelma	52.63	21
Kennedy	1992	Tina	19.67	21
Kennedy	1992	Eric	24.89	12
Kennedy	1993	Bubba	37.88	12
Kennedy	1993	G.L.	25.89	21
Kennedy	1993	Bert	28.89	21
Kennedy	1993	Clay	26.44	21
Kennedy	1993	Leeann	27.17	17
Kennedy	1993	Georgia	38.90	11
Kennedy	1993	Bill	42.23	25
Kennedy	1993	Holly	18.67	27
Kennedy	1993	Benny	19.09	25
Kennedy	1993	Cammie	28.77	28
Kennedy	1993	Amy	27.08	31
Kennedy	1993	Doris	22.22	24
Kennedy	1993	Robbie	19.80	24
Kennedy	1993	Ted	27.07	25
Kennedy	1993	Sarah	24.44	12
Kennedy	1993	Megan	28.89	11
Kennedy	1993	Jeff	31.11	12
Kennedy	1993	Taz	30.55	11
Kennedy	1993	George	27.56	11
Kennedy	1993	Heather	38.67	15
Kennedy	1994	Nancy	29.90	26
Kennedy	1994	Rusty	30.55	28
Kennedy	1994	Mimi	37.67	22
Kennedy	1994	J.C.	23.33	27
Kennedy	1994	Clark	27.90	25
Kennedy	1994	Rudy	27.78	23
Kennedy	1994	Samuel	34.44	18
Kennedy	1994	Forrest	28.89	26
Kennedy	1994	Luther	72.22	24
Kennedy	1994	Trey	6.78	18
Kennedy	1994	Albert	23.33	19
Kennedy	1994	Che-Min	26.66	33
Kennedy	1994	Preston	32.22	23
Kennedy	1994	Larry	40.00	26
Kennedy	1994	Anton	35.99	28
Kennedy	1994	Sid	27.45	25
Kennedy	1994	Will	28.88	21
Kennedy	1994	Morty	34.44	25

;

Creating the STATEPOP Data Set

```

data statepop;
  input State $ CityPop_80 CityPop_90
          NonCityPop_80 NonCityPop_90 Region;
  format region 1.;
  label citypop_80= '1980 metropolitan pop in millions'
        noncitypop_80='1980 nonmetropolitan pop in millions'
        citypop_90= '1990 metropolitan pop in millions'
        noncitypop_90='1990 nonmetropolitan pop in million'
        region='Geographic region';
  datalines;
ME      .405      .443      .721      .785      1
NH      .535      .659      .386      .450      1
VT      .133      .152      .378      .411      1
MA      5.530     5.788     .207     .229     1
RI      .886      .938      .061     .065     1
CT      2.982     3.148     .126     .140     1
NY      16.144    16.515    1.414    1.475    1
NJ      7.365     7.730     .A       .A       1
PA      10.067    10.083    1.798    1.799    1
DE      .496      .553      .098     .113     2
MD      3.920     4.439     .297     .343     2
DC      .638      .607      .        .        2
VA      3.966     4.773     1.381    1.414    2
WV      .796      .748     1.155    1.045    2
NC      3.749     4.376     2.131    2.253    2
SC      2.114     2.423     1.006    1.064    2
GA      3.507     4.352     1.956    2.127    2
FL      9.039     12.023    .708     .915     2
KY      1.735     1.780     1.925    1.906    2
TN      3.045     3.298     1.546    1.579    2
AL      2.560     2.710     1.334    1.331    2
MS      .716      .776     1.805    1.798    2
AR      .963      1.040     1.323    1.311    2
LA      3.125     3.160     1.082    1.060    2
OK      1.724     1.870     1.301    1.276    2
TX      11.539    14.166    2.686    2.821    2
OH      8.791     8.826     2.007    2.021    3
IN      3.885     3.962     1.605    1.582    3
IL      9.461     9.574     1.967    1.857    3
MI      7.719     7.698     1.543    1.598    3
WI      3.176     3.331     1.530    1.561    3
MN      2.674     3.011     1.402    1.364    3
IA      1.198     1.200     1.716    1.577    3
MO      3.314     3.491     1.603    1.626    3
ND      .234      .257      .418     .381     3
SD      .194      .221      .497     .475     3
NE      .728      .787      .842     .791     3
KS      1.184     1.333     1.180    1.145    3
MT      .189      .191      .598     .608     4
ID      .257      .296      .687     .711     4

```

```

WY      .141      .134      .329      .319      4
CO     2.326     2.686     .563     .608     4
NM      .675      .842     .628     .673     4
AZ     2.264     3.106     .453     .559     4
UT     1.128     1.336     .333     .387     4
NV      .666      1.014     .135     .183     4
WA     3.366     4.036     .776     .830     4
OR     1.799     1.985     .834     .858     4
CA    22.907    28.799     .760     .961     4
AK      .174      .226     .227     .324     4
HI      .763      .836     .202     .272     4
;

```

Programs that Illustrate Inheritance

The programs in this section show the PROC TEMPLATE steps that were used in “How Do Style-Definition Inheritance and Style-Element Inheritance Work?” on page 139 to illustrate inheritance in style definitions. These programs also show the SAS code that uses the style definitions.

SAS Program for a Style with One Style Element

This program generates the HTML output in Display 5.1 on page 141.

```

ods path sashelp.tmplmst(read) sasuser.templat(update);
title;
options nodate pageno=1 linesize=72 pagesize=60;
data test;
  input country $ 1-13 grain $ 15-18 kilotons;
  datalines;
Brazil      Rice      10035
China       Rice      190100
India       Rice      120012
Indonesia   Rice      51165
United States Rice      7771
;

proc template;
  define table mytable;
    column x y z;
    define x;
      style=cellldatasimple;
      dataname=country;
      header='Country';
    end;
    define y;
      style=cellldatasimple;
      dataname=grain;
      header='Grain';
    end;
    define z;
      style=cellldatasimple;

```

```

        dataname=kilotons;
        header='Kilotons';
    end;
end;
run;

proc template;
    /* to ensure a fresh start with the styles */
    delete concepts.style1;
    delete concepts.style2;
run;

proc template;
    define style concepts.style1;
        style celldatasimple /
            font_face=arial
            background=very light vivid blue
            foreground=white;
    end;
run;

ods html body='display1-body.htm'
        style=concepts.style1;
data _null_;
    set test;
    file print ods=(template='mytable');
    put _ods_;
run;
ods html close;

```

SAS Program for a Style with Two Style Elements (Independently Defined)

This program generates the HTML output in Display 5.2 on page 142. In this version of the code, the style element `celldataemphasis` is created independently of `celldatasimple`.

```

ods path sashelp.tmplmst(read) sasuser.templat(update);
title;
options nodate pageno=1 linesize=72 pagesize=60;
data test;
    input country $ 1-13 grain $ 15-18 kilotons;
    datalines;
Brazil          Rice    10035
China           Rice    190100
India           Rice    120012
Indonesia      Rice    51165
United States  Rice    7771
;

proc template;
    define table mytable;
        column x y z;
        define x;

```

```

        style=celldatasimple;
        dataname=country;
        header='Country';
    end;
    define y;
        style=celldataemphasis;
        dataname=grain;
        header='Grain';
    end;
    define z;
        style=celldatasimple;
        dataname=kilotons;
        header='Kilotons';
    end;
end;
run;

proc template;
    /* to ensure a fresh start with the styles */
    delete concepts.style1;
    delete concepts.style2;
run;
proc template;
    define style concepts.style1;
        style celldatasimple /
            font_face=arial
            background=very light vivid blue
            foreground=white;
        style celldataemphasis from celldatasimple /
            foreground=blue
            font_style=italic;
    end;
run;

ods html body='display2-body.htm'
        style=concepts.style1;
data _null_;
    set test;
    file print ods=(template='mytable');
    put _ods_;
run;
ods html close;

```

SAS Program for a Style with Two Style Elements (Defined with Inheritance)

This program generates the HTML output in Display 5.2 on page 142. In this version of the code, the style element `celldataemphasis` is created as a child of `celldatasimple`.

```

ods path sashelp.tmplmst(read) sasuser.templat(update);
title;
options nodate pageno=1 linesize=72 pagesize=60;
data test;

```

```

        input country $ 1-13 grain $ 15-18 kilotons;
        datalines;
Brazil      Rice    10035
China       Rice    190100
India       Rice    120012
Indonesia  Rice    51165
United States Rice    7771
;

proc template;
    define table mytable;
        column x y z;
        define x;
            style=celldatasimple;
            dataname=country;
            header='Country';
        end;
        define y;
            style=celldataemphasis;
            dataname=grain;
            header='Grain';
        end;
        define z;
            style=celldatasimple;
            dataname=kilotons;
            header='Kilotons';
        end;
    end;
run;

proc template;
    /* to ensure a fresh start with the styles */
    delete concepts.style1;
    delete concepts.style2;
run;
proc template;
    define style concepts.style1;
        style celldatasimple /
            font_face=arial
            background=very light vivid blue
            foreground=white;
        style celldataemphasis from celldatasimple /
            foreground=blue
            font_style=italic;
    end;
run;

ods html body='display2-body.htm'
        style=concepts.style1;
data _null_;
    set test;
    file print ods=(template='mytable');
    put _ods_;
run;

```



```
ods html close;
```

SAS Program for Changing the Font Face in Only One Style Element

This program generates the HTML output in Display 5.3 on page 143.

```
ods path sashelp.tmplmst(read) sasuser.templat(update);
title;
options nodate pageno=1 linesize=72 pagesize=60;
data test;
  input country $ 1-13 grain $ 15-18 kilotons;
  datalines;
Brazil      Rice      10035
China       Rice      190100
India       Rice      120012
Indonesia   Rice      51165
United States Rice      7771
;

proc template;
  define table mytable;
    column x y z;
    define x;
      style=celldatasimple;
      dataname=country;
      header='Country';
    end;
    define y;
      style=celldataemphasis;
      dataname=grain;
      header='Grain';
    end;
    define z;
      style=celldatasimple;
      dataname=kilotons;
      header='Kilotons';
    end;
  end;
run;

proc template;
  /* to ensure a fresh start with the styles */
  delete concepts.style1;
  delete concepts.style2;
run;
proc template;
  define style concepts.style1;
    style celldatasimple
      'The change to FONT_FACE does not
      affect celldataemphasis.'
  / font_face=times
    background=very light vivid blue
    foreground=white;
  style celldataemphasis /
```

```

        font_face=arial
        background=very light vivid blue
        foreground=blue
        font_style=italic;
    end;
run;

ods html body='display3-body.htm'
        style=concepts.style1;
data _null_;
    set test;
    file print ods=(template='mytable');
    put _ods_;
run;
ods html close;

```

SAS Program for Inheriting a Change to a Style Element

This program generates the HTML output in Display 5.4 on page 144. In this version of the code, the style element `celldataemphasis` is created as a child of `celldatasimple`.

```

ods path sashelp.tmplmst(read) sasuser.templat(update);
title;
options nodate pageno=1 linesize=72 pagesize=60;
data test;
    input country $ 1-13 grain $ 15-18 kilotons;
    datalines;
Brazil      Rice      10035
China       Rice      190100
India       Rice      120012
Indonesia   Rice      51165
United States Rice      7771
;

proc template;
    define table mytable;
        column x y z;
        define x;
            style=celldatasimple;
            dataname=country;
            header='Country';
        end;
        define y;
            style=celldataemphasis;
            dataname=grain;
            header='Grain';
        end;
        define z;
            style=celldatasimple;
            dataname=kilotons;
            header='Kilotons';
        end;
    end;
end;

```

```

run;

proc template;
  /* to ensure a fresh start with the styles */
  delete concepts.style1;
  delete concepts.style2;
run;
proc template;
  define style concepts.style1;
    style celldatasimple
      'The change to FONT_FACE is passed to
      celldataemphasis, which inherits all the
      attributes of celldatasimple.'
    / font_face=times
      background=very light vivid blue
      foreground=white;
    style celldataemphasis from celldatasimple /
      foreground=blue
      font_style=italic;
  end;
run;

ods html body='display4-body.htm'
  style=concepts.style1;
data _null_;
  set test;
  file print ods=(template='mytable');
  put _ods_;
run;
ods html close;

```

SAS Program for Creating the Style Element *celldatalarge*

This program generates the HTML output in Display 5.5 on page 146.

```

ods path sashelp.tmplmst(read) sasuser.templat(update);
title;
options nodate pageno=1 linesize=72 pagesize=60;
data test;
  input country $ 1-13 grain $ 15-18 kilotons;
  datalines;
Brazil      Rice    10035
China      Rice    190100
India      Rice    120012
Indonesia  Rice    51165
United States Rice    7771
;

proc template;
  define table mytable;
    column x y z;
    define x;
      style=celldatasimple;
      dataname=country;

```

```

        header='Country';
    end;
    define y;
        style=celldataemphasis;
        dataname=grain;
        header='Grain';
    end;
    define z;
        style=celldatalarge;
        dataname=kilotons;
        header='Kilotons';
    end;
end;
run;

proc template;
    /* to ensure a fresh start with the styles */
    delete concepts.style1;
    delete concepts.style2;
run;
proc template;
    define style concepts.style1;
        style celldatasimple /
            font_face=arial
            background=very light vivid blue
            foreground=white;
        style celldataemphasis from celldatasimple /
            foreground=blue
            font_style=italic;
        style celldatalarge from celldataemphasis /
            font_weight=bold
            font_size=5;
    end;
run;

ods html body='display5-body.htm'
        style=concepts.style1;
data _null_;
    set test;
    file print ods=(template='mytable');
    put _ods_;
run;
ods html close;

```

SAS Program for Creating a New Style Element from a Style Element in the Parent Style Definition

This program generates the HTML output in Display 5.6 on page 149.

```

ods path sashelp.tmplmst(read) sasuser.templat(update);
title;
options nodate pageno=1 linesize=72 pagesize=60;
data test;
    input country $ 1-13 grain $ 15-18 kilotons;

```

```

        datalines;
Brazil      Rice      10035
China       Rice      190100
India       Rice      120012
Indonesia   Rice      51165
United States Rice    7771
;

proc template;
  define table mytable;
    column x y z w;
    define x;
      style=cellldatasimple;
      dataname=country;
      header='Country';
    end;
    define y;
      style=cellldataemphasis;
      dataname=grain;
      header='Grain';
    end;
    define z;
      style=cellldatalarge;
      dataname=kilotons;
      header='Kilotons';
    end;
    define w;
      style=celldatasmall;
      dataname=kilotons;
      header='Kilotons';
    end;
  end;
run;

proc template;
  /* to ensure a fresh start with the styles */
  delete concepts.style1;
  delete concepts.style2;
run;

proc template;
  define style concepts.style1;
    style cellldatasimple /
      font_face=arial
      background=very light vivid blue
      foreground=white;
    style cellldataemphasis from cellldatasimple /
      foreground=blue
      font_style=italic;
    style cellldatalarge from cellldataemphasis /
      font_weight=bold
      font_size=5;
  end;
run;

```

```

proc template;
  define style concepts.style2;
    parent=concepts.style1;
    style celldatasmall from celldatalarge /
      font_size=2;
  end;
run;
ods html body='display6-body.htm'
  style=concepts.style2;
data _null_;
  set test;
  file print ods=(template='mytable');
  put _ods_;
run;
ods html close;

```

SAS Program for Inheriting Changes to the Parent Style Definition

This program generates the HTML output in Display 5.7 on page 150.

```

ods path sashelp.tmplmst(read) sasuser.templat(update);
title;
options nodate pageno=1 linesize=72 pagesize=60;
data test;
  input country $ 1-13 grain $ 15-18 kilotons;
  datalines;
Brazil      Rice      10035
China       Rice      190100
India       Rice      120012
Indonesia   Rice      51165
United States Rice      7771
;

proc template;
  define table mytable;
    column x y z w;
    define x;
      style=celldatasimple;
      dataname=country;
      header='Country';
    end;
    define y;
      style=celldataemphasis;
      dataname=grain;
      header='Grain';
    end;
    define z;
      style=celldatalarge;
      dataname=kilotons;
      header='Kilotons';
    end;
    define w;
      style=celldatasmall;

```

```

        dataname=kilotons;
        header='Kilotons';
    end;
end;
run;

proc template;
    /* to ensure a fresh start with the styles */
    delete concepts.style1;
    delete concepts.style2;
run;

proc template;
    define style concepts.style1;
        style celldatasimple /
            font_face=times
            background=very light vivid blue
            foreground=white;
        style celldataemphasis from celldatasimple /
            foreground=black
            font_style=italic;
        style celldatalarge from celldataemphasis /
            font_weight=bold
            font_size=5;
    end;
run;

proc template;
    define style concepts.style2;
        parent=concepts.style1;
        style celldatasmall from celldatalarge /
            font_size=2;
    end;
run;
ods html body='display7-body.htm'
        style=concepts.style2;
data _null_;
    set test;
    file print ods=(template='mytable');
    put _ods_;
run;
ods html close;

```

SAS Program for Using the STYLE Statement to Alter an Existing Style Element in the Child Definition

This program generates the HTML output in Display 5.8 on page 152.

```

ods path sashelp.tmplmst(read) sasuser.templat(update);
title;
options nodate pageno=1 linesize=72 pagesize=60;
data test;
    input country $ 1-13 grain $ 15-18 kilotons;
    datalines;

```

```

Brazil      Rice    10035
China      Rice    190100
India      Rice    120012
Indonesia  Rice    51165
United States Rice    7771
;

proc template;
  define table mytable;
    column x y z w;
    define x;
      style=cellldatasimple;
      dataname=country;
      header='Country';
    end;
    define y;
      style=cellldataemphasis;
      dataname=grain;
      header='Grain';
    end;
    define z;
      style=cellldatalarge;
      dataname=kilotons;
      header='Kilotons';
    end;
    define w;
      style=celldatasmall;
      dataname=kilotons;
      header='Kilotons';
    end;
  end;
run;

proc template;
  /* to ensure a fresh start with the styles */
  delete concepts.style1;
  delete concepts.style2;
run;

proc template;
  define style concepts.style1;
    style cellldatasimple /
      font_face=arial
      background=very light vivid blue
      foreground=white;
    style cellldataemphasis from cellldatasimple /
      foreground=blue
      font_style=italic;
    style cellldatalarge from cellldataemphasis /
      font_weight=bold
      font_size=5;
  end;
run;

```



```

proc template;
  define style concepts.style2;
    parent=concepts.style1;
    style celldataemphasis from celldataemphasis /
      background=white;
    style celldatasmall from celldatalarge /
      font_size=2;
  end;
run;
ods html body='display8-body.htm'
  style=concepts.style2;
data _null_;
  set test;
  file print ods=(template='mytable');
  put _ods_;
run;
ods html close;

```

SAS Program for Using the REPLACE Statement to Alter a Style Element and Its Children

This program generates the HTML output in Display 5.9 on page 155.

```

ods path sashelp.tmplmst(read) sasuser.templat(update);
title;
options nodate pageno=1 linesize=72 pagesize=60;
data test;
  input country $ 1-13 grain $ 15-18 kilotons;
  datalines;
Brazil      Rice      10035
China      Rice      190100
India      Rice      120012
Indonesia  Rice      51165
United States Rice      7771
;

proc template;
  define table mytable;
    column x y z w;
    define x;
      style=celldatasimple;
      dataname=country;
      header='Country';
    end;
    define y;
      style=celldataemphasis;
      dataname=grain;
      header='Grain';
    end;
    define z;
      style=celldatalarge;
      dataname=kilotons;
      header='Kilotons';
    end;

```

```

        define w;
            style=celldatasmall;
            dataname=kilotons;
            header='Kilotons';
        end;
    end;
run;

proc template;
    /* to ensure a fresh start with the styles */
    delete concepts.style1;
    delete concepts.style2;
run;

proc template;
    define style concepts.style1;
        style celldatasimple /
            font_face=arial
            background=very light vivid blue
            foreground=white;
        style celldataemphasis from celldatasimple /
            foreground=blue
            font_style=italic;
        style celldatalarge from celldataemphasis /
            font_weight=bold
            font_size=5;
    end;
run;

proc template;
    define style concepts.style2;
        parent=concepts.style1;
        replace celldataemphasis from celldatasimple /
            foreground=blue
            font_style=italic
            background=white;
        style celldatasmall from celldatalarge /
            font_size=2;
    end;
run;
ods html body='display9-body.htm'
        style=concepts.style2;
data _null_;
    set test;
    file print ods=(template='mytable');
    put _ods_;
run;
ods html close;
```

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