PROC TEMPLATE Table Styles

PROC TEMPLATE tables apply style overrides within the table, column, header, and footer definitions.

```sas
proc template;
    define table table;
        style=style-override;
    define header table-header;
        style=style-override;
    end;
    define column column;
        style=style-override;
        define header column-header;
            style=style-override;
        end;
    define footer table-footer;
        style=style-override;
    end;
end;
run;
```

The style= attribute in the crosstabs template controls the overall table. The style= in the col-header and row-header templates controls those areas.

PROC FREQ Crosstabs Styles

PROC FREQ Crosstabs are applied to a table based on style overrides in the header, footer, and cellvalue templates as well as specialized attributes.

```sas
proc template;
    define crosstabs Base.Freq.CrosstabFreqs;
        define header table-header;
            style=style-override;
        end;
        define footer table-footer;
            style=style-override;
        end;
run;
```

For complete information, refer to the Base SAS® documentation at support.sas.com/base

The Base SAS® reporting procedures, PROC PRINT, PROC REPORT, PROC TABULATE, PROC TEMPLATE Tables, and PROC FREQ Crosstabs, enable you to quickly analyze and organize your data into easy-to-read tables. Adding styles to your reports can give them another dimension of expression and usability. This tip sheet presents the basics of adding style to your Base SAS reporting procedures output.
### Terms

**style attribute**
A name-value pair that describes a single behavioral or visual aspect of a piece of output.

**style element**
A named collection of style attributes specified by the STYLE or CLASS statement in PROC TEMPLATE style templates. Each area in a piece of ODS output has a style element name associated with it where the attributes will be applied.

### Style Overrides

Style overrides, specified by style-override in the rest of this tip sheet, allow you to override the default style name and attributes in a particular area of a report. While each procedure uses a slightly different way to apply overrides, the style overrides themselves always have the following form. Both style-element and style-attributes are optional.

```
style-element[style-attributes];
```

or

```
style-element[style-attributes];
```

**style-element**
Specifies the name of the style element to use instead of the default. Typical style elements are Data, Table, Header, but custom style elements can be used as well.

**style-attributes**
Specifies a space delimited list of style attributes. Typical style attributes are color=red and fontfamily="Arial". A SAS® format can also be used as an attribute value for conditional formatting (e.g., backgroundcolor=$bgcolor.). When a SAS format is used, the value of the current data cell is evaluated against the format to determine the attribute’s value.

### PROC PRINT Styles

PROC PRINT styles are applied to a table based on named regions in the table.

```
proc print style=(table-area)=style-override ... ;
  var / style=(table-area)=style-override;
  id / style=(table-area)=style-override;
  sum / style=(table-area)=style-override;
run;
```

All names from the table below can be used in place of table-area on the PROC statement. The VAR and ID statements accept column and header. The SUM statement accepts column, grandtotal, header, and total.

Style overrides given on statements take precedence over those given on the PROC statement.

### PROC REPORT Styles

PROC REPORT styles are applied to a table based on named regions in the table.

```
proc report style=(table-area)=style-override ... ;
  define ... / style=(table-area)=style-override;
  break ... / style=(table-area)=style-override;
  rbreak ... / style=(table-area)=style-override;
  compute ... / style=style-override;
run;
```

All names from the table below can be used in place of table-area on the PROC statement. The DEFINE statement accepts column and header. The BREAK and RBREAK statements accept summary and lines.

Style overrides given on the statements take precedence over those given on the PROC statement.

### PROC TABULATE Styles

PROC TABULATE styles are applied to a table based on the statements that create the table.

```
proc tabulate style=style-override ... ;
  class ... / style=style-override;
  var ... / style=style-override;
  var ... / style=style-override;
  keyword ... / style=style-override;
  table ... all*{style=style-override} ... x*{style=style-override} ... /
            style=style-override;
            misstext={style=style-override};
  box={style=style-override};
run;
```

Any styles for variables in the CLASS, CLASSLEVEL, VAR, and KEYWORD statements can be overridden in the TABLE statement. This allows you to have different style behavior with multiple TABLE statements.

```
table ... var=var-star{style=style-override} ... ;
```

---

**Table 1: Data, Table, Header**

<table>
<thead>
<tr>
<th>obsheader</th>
<th>table</th>
</tr>
</thead>
<tbody>
<tr>
<td>obs</td>
<td></td>
</tr>
<tr>
<td>obs</td>
<td></td>
</tr>
<tr>
<td>obs</td>
<td></td>
</tr>
<tr>
<td>bylabel</td>
<td>total</td>
</tr>
<tr>
<td>grandtotal</td>
<td>grandtotal</td>
</tr>
</tbody>
</table>

**Table 2: Report**

<table>
<thead>
<tr>
<th>header</th>
<th>header</th>
<th>header</th>
</tr>
</thead>
<tbody>
<tr>
<td>column</td>
<td>column</td>
<td>column</td>
</tr>
<tr>
<td>column</td>
<td>column</td>
<td>column</td>
</tr>
<tr>
<td>summary</td>
<td>summary</td>
<td>summary</td>
</tr>
<tr>
<td>lines</td>
<td>lines</td>
<td>lines</td>
</tr>
</tbody>
</table>

**Table 3: Box Style**

<table>
<thead>
<tr>
<th>box</th>
<th>var</th>
<th>var</th>
</tr>
</thead>
<tbody>
<tr>
<td>class</td>
<td>keyword</td>
<td>keyword</td>
</tr>
<tr>
<td>classlevel</td>
<td>proc / x</td>
<td>proc / x</td>
</tr>
<tr>
<td>classlevel</td>
<td>proc / x</td>
<td>proc / x</td>
</tr>
<tr>
<td>keyword</td>
<td>all / x</td>
<td>all / x</td>
</tr>
</tbody>
</table>