Conditional Statements

Traffic Lighting

The CELLSTYLE-AS statement is valid in both table and column definitions, although only one style is applied in a single data cell. Each expression is a WHERE expression that is evaluated for each data cell. If the result of the expression is true, the given style element and attributes are applied. Once a matching expression is found, execution stops.

Translating Values

The TRANSLATE-INTO statement is valid in both table and column definitions, although only one result is applied in a single data cell. Each expression is a WHERE expression. The (a) expressions are evaluated for each data cell. If the result of the (b) expression is true, the result of the expression is used in place of the data value in the output. Once a matching expression is found, execution stops.

Expression Variables

<table>
<thead>
<tr>
<th>column name</th>
<th>name of any column in the table template or data set</th>
</tr>
</thead>
<tbody>
<tr>
<td>col</td>
<td>current column number</td>
</tr>
<tr>
<td>dataname</td>
<td>name of the current data column</td>
</tr>
<tr>
<td>label</td>
<td>label on the current data column</td>
</tr>
<tr>
<td>row</td>
<td>current row number</td>
</tr>
<tr>
<td>style</td>
<td>current style element name</td>
</tr>
<tr>
<td>val</td>
<td>current data value</td>
</tr>
</tbody>
</table>
Browsing Templates

The table templates supplied by SAS are stored in the SASHELP.TMPLMST itemstore. You can browse the templates using either a graphical interface or PROC TEMPLATE code.

ods templates
    Type ods templates into the command bar to open the Template Browser. Double-clicking a template displays its source code.

proc template; list directory-name; run;
    Lists all templates in directory-name.

proc template; source template-name; run;
    Displays the source of template-name to the log.

ods trace on;
    Displays information about tables as they are processed.

ods trace off;
    Turns off trace information.

Using a Table Template

The following code applies a SAS data set to a PROC TEMPLATE table template.

```sas
data _null_; set data-set-name; file print ods=(_ods_); put _ods_; run;
```

data-set-name is the name of the data set to apply to the table template. table-name is the name of the table template to use.

Basic Structure

```sas
proc template; define table table-name; ... statements / attributes / headers / footers / columns ... end; run;
```

Commonly Used Statements

- **cellstyle expr as style-element{style-attributes};**
  - Conditionally applies styles to data cells.
  - Specifies a SAS format for the data.

- **column column-specification(s);**
  - Lists the names of the columns to appear in the table.
  - Specifies a SAS format for the data.

- **notes “text”;**
  - Specifies comments about the header or footer that are stored with the template.

- **translate expr-1 into expr-2;**
  - Conditionally alters the values in the data cells.

Commonly Used Attributes

- **parent=table-name;**
  - Specifies the parent table template for inheritance.

- **style=style-element{style-attributes};**
  - Applies specified styles to the table.

Defining Header and Footer Templates

Basic Structure

```sas
proc template; define header header-name; ... statements / attributes ... end; define footer footer-name; ... statements / attributes ... end; run;
```

Commonly Used Statements

- **notes “text”;**
  - Specifies comments about the header or footer.

- **translate expr-1 into expr-2;**
  - Conditionally alters the values in the data cells.

Commonly Used Attributes

- **parent=header-name;**
  - Specifies the parent header or footer template for inheritance.

- **start=column-name; end=column-name;**
  - Specifies the first and final columns, respectively, in a multi-column header or footer.

Defining Column Templates

Basic Structure

```sas
proc template; define column column-name; ... statements / attributes / header / footer ... end; run;
```

Commonly Used Statements

- **cellstyle expr as style-element{style-attributes};**
  - Conditionally applies styles to data cells.

- **compute as expr;**
  - Computes values for data cells instead of using a column from a SAS data set.

- **notes “text”;**
  - Specifies comments about the column that are stored with the template.

- **translate expr-1 into expr-2;**
  - Conditionally alters the values in the data cells.

Commonly Used Attributes

- **format=SAS-format;**
  - Specifies a SAS format for the data.

- **parent=header-name;**
  - Specifies the text for the column header or the name of the header template to use for the header.

- **parent=column-name;**
  - Specifies the parent column template for inheritance.

- **style=style-element{style-attributes};**
  - Applies specified styles to the data cells.