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/*A Basic time series plot*/
proc template;
define statgraph timeseries_plot_template;
  begingraph;
    layout overlay;
      seriesplot x=date y=close/
        name="timeseries_plot"
        group=stock;
    endlayout;
  endgraph;
end;
run;

proc sgrender data=sashelp.stocks (where=(year(date) & year(date) gt 2000))
  template=timeseries_plot_template;
run;

/*Add titles; %sysfunc(date( ), weekdate.) at %sysfunc(time( ), timeampm.); Labels */
proc template;
define statgraph timeseries_plot_template;
  begingraph;
    entrytitle "Daily Stock Prices";
    layout overlay /
      xaxisopts=(label="Year")
      yaxisopts=(label="Closing Price");

      seriesplot x=date y=close/
        name="timeseries_plot"
        group=stock;
    endlayout;

    entryfootnote "Plot Created on %sysfunc(date( ), weekdate.) at %sysfunc(time( ), timeampm.)";
  endgraph;
end;
run;

proc sgrender data=sashelp.stocks (where=(year(date) & year(date) gt 2000))
  template=timeseries_plot_template;
run;

/*Add a Legend and Without grids */
proc template;
define statgraph timeseries_plot_template;
  begingraph;
    entrytitle "Daily Stock Prices";
    layout overlay /
      xaxisopts=(label="Year")
      yaxisopts=(label="Closing Price");

      seriesplot x=date y=close/
        name="timeseries_plot"
        group=stock;

      discretelegend "timeseries_plot" /
        title="Stock: "
        location=inside
        valign=top
        halign=right
        opaque=true;
    endlayout;
end;

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        entryfootnote "Plot Created on %sysfunc(date( ), weekdate.) at %sysfunc(time( ), timeampm.)";
    endgraph;
end;
run;

.....

proc sgrender data=sashelp.stocks (where=(year(date) & year(date) gt 2000))
    template=timeseries_plot_template;
run;

/*Add a Legend and With grids */
proc template;
define statgraph timeseries_plot_template;
    begingraph;
        entrytitle "Daily Stock Prices";
        layout overlay /
            xaxisopts=(label="Year"
                        timeopts=(interval=year)
                        griddisplay=on)
            yaxisopts=(label="Closing Price"
                        griddisplay=on);

            seriesplot x=date y=close/
                name="timeseries_plot"
                group=stock;

            discretelegend "timeseries_plot" /
                title="Stock: "
                location=inside
                valign=top
                halign=right
                opaque=true;
        endlayout;

        entryfootnote "Plot Created on %sysfunc(date( ), weekdate.) at %sysfunc(time( ), timeampm.)";
    endgraph;
end;
run;

.....

proc sgrender data=sashelp.stocks (where=(year(date) & year(date) gt 2000))
    template=timeseries_plot_template;
run;

/*Smoothed lines */
proc template;
define statgraph timeseries_plot_template;
    begingraph;
        entrytitle "Smoothed Daily Stock Prices";
        layout overlay /
            xaxisopts=(label="Year"
                        timeopts=(interval=year)
                        griddisplay=on)
            yaxisopts=(label="Closing Price"
                        griddisplay=on);

            seriesplot x=date y=close/
                name="timeseries_plot"
                group=stock
                splinetype=quadraticbezier;

            discretelegend "timeseries_plot" /
                title="Stock: "

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        location=inside
        valign=top
        halign=right
        opaque=true;
    endlayout;

    entryfootnote "Plot Created on %sysfunc(date( ), weekdate.) at %sysfunc(time( ), timeampm.);";
endgraph;
end;
run;

.....
proc sgrender data=sashelp.stocks (where=(year(date) & year(date) gt 2000))
    template=timeseries_plot_template;
run;
```