



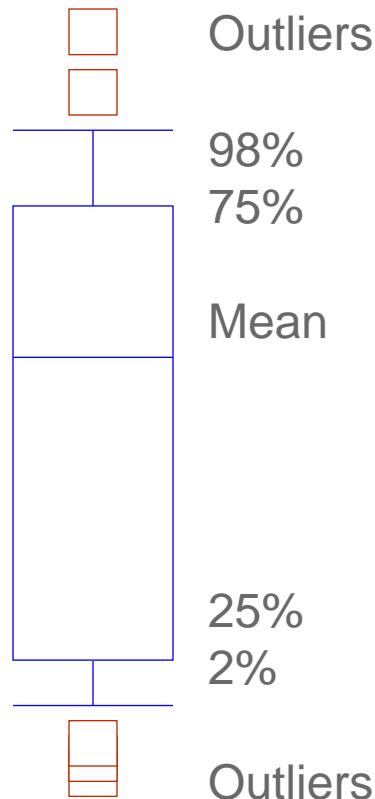
ArcelorMittal

Proc du Jour- Box Plots

GHSUG, May 11, 2012

Topic – Comparisons using Box Plots

Proc Gplot (1% view)



- Specific type of plot used to show variation within a group
- Side by side plots show variation between groups
- Can be produced via proc plot, gplot, shewhart & boxplot
- By statement in univariate too

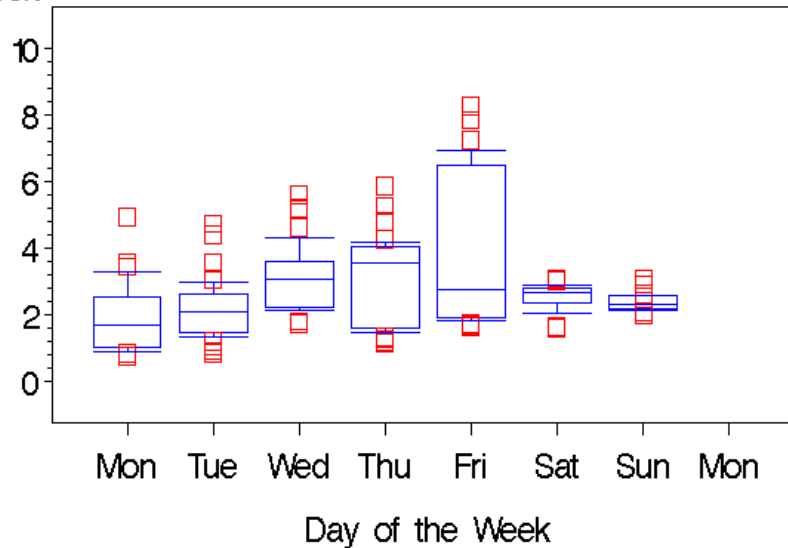
Box plots are a great way to compare variation both within and between

Example from proc gplot – uses sashelp.air

```
goptions reset=global gunit=pct border cback=white  
colors=(black blue green red)  
ftitle=swissb ftext=swiss htitle=6 htext=4;
```

Comparison of Sulphur Levels in Air

Day of the Week



```
symbol interpol=boxt20  
co=blue  
bwidth=6  
value=square  
cv=red  
height=4;
```

Full code (optional)

```
options reset=global gunit=pct border cback=white
      colors=(black blue green red ) ftitle=swissb ftext=swiss htitle=6 htext=4;

title1 'Comparison of Sulphur Levels in Air';

symbol interpol=boxt20
      co=blue
      bwidth=6
      value=square
      cv=red
      height=4;

axis1 label=('Day of the Week')
      offset=(5,5)
      length=50;

proc gplot data=sasuser.air;
  plot so2*day / haxis=axis1
      vaxis=none;
run;
```