INTRODUCTION OF PROC GCHART

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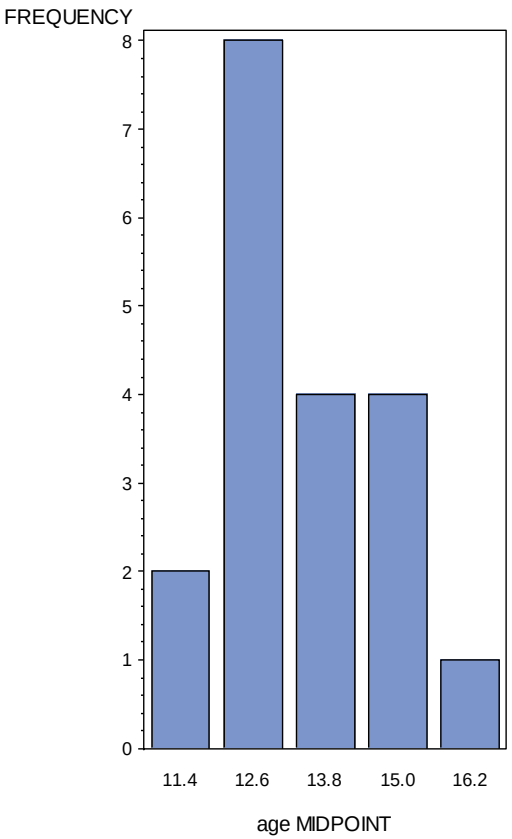
Outline

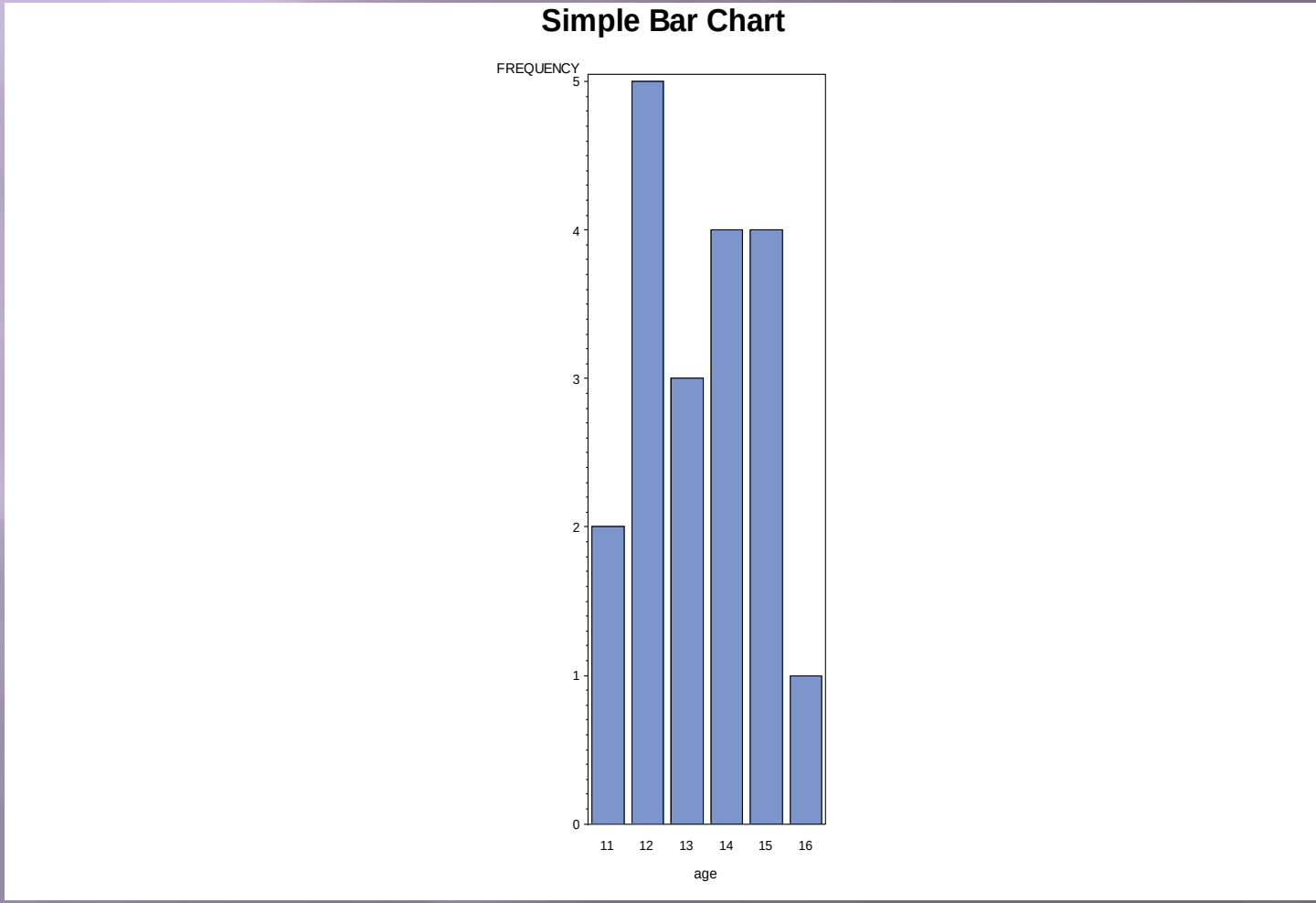
- Introduction
- Draw Bar charts
- Write axis label
- Change the bar patterns and width

```
data sashelp;
input name $ sex $ age height weight;
datalines;
Alfred      M   14     69     112.5
Alice       F    13    56.5   84
Barbara     F   13     65.3  98
Carol       F    14    62.8   102.5
Henry       M    14    63.5   102.5
James       M   12    57.3   83
Jane        F    12    59.8   84.5
Janet       F   15     62.5   112.5
Jeffrey     M   13     62.5   84
John        M    12     59     99.5
Joyce       F   11     51.3  50.5
Judy        F    14     64.3  90
Louise      F   12      56.3  77
Mary        F   15      66.5  112
Philip      M    16     72     150
Robert      M   12     64.8   128
Ronald      M     15   67      133
Thomas      M   11     57.5    85
William     M    15    66.5    112
;
```

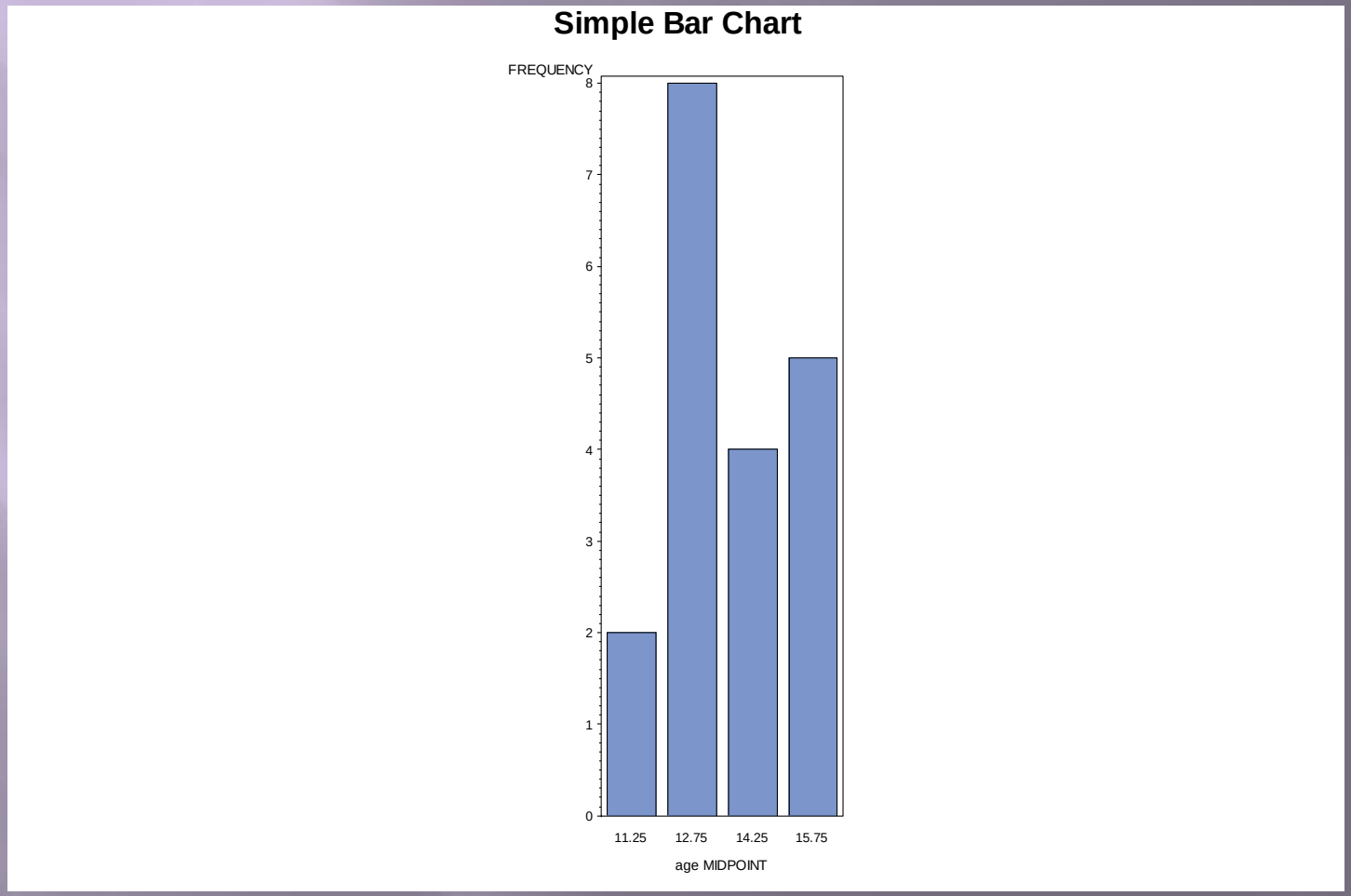
```
proc gchart data = sashelp;
vbar age ;
run;
```



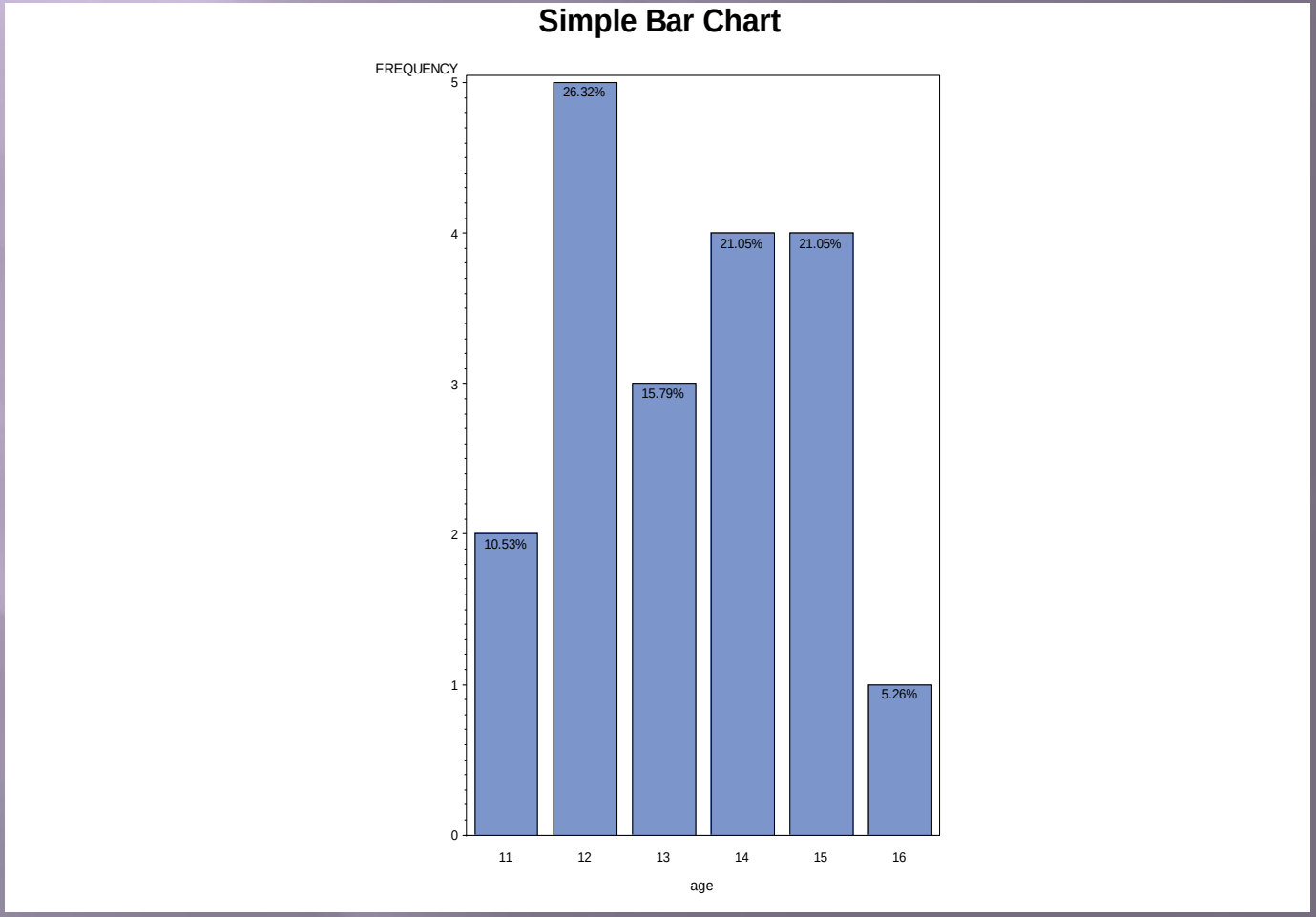
```
proc gchart data = sashelp;
title1' Simple Bar Chart';
vbar age / discrete  ;
run;
```



```
proc gchart data = sashelp;
title1' Simple Bar Chart';
vbar age / levels =4  ;
run;
```

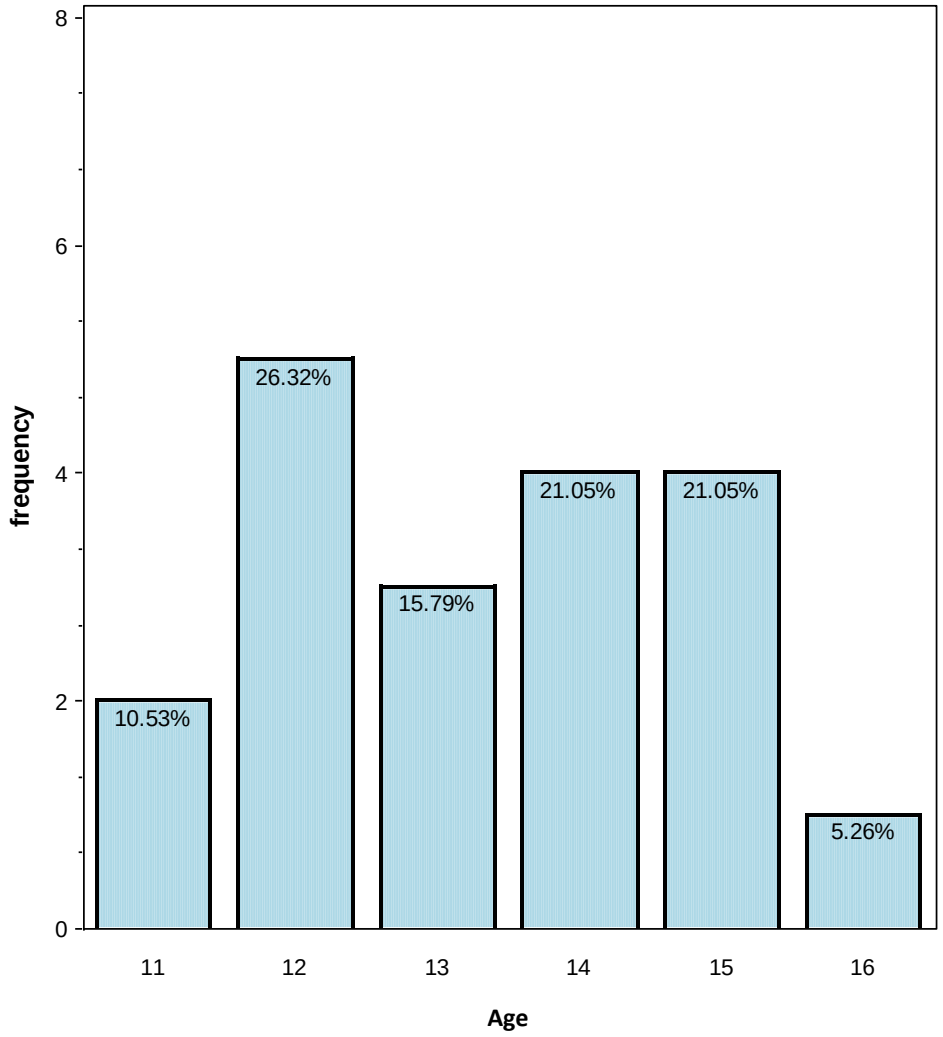


```
proc gchart data = sashelp;
title1' Simple Bar Chart';
vbar age /  discrete width = 8 inside = percent ;
run;
```

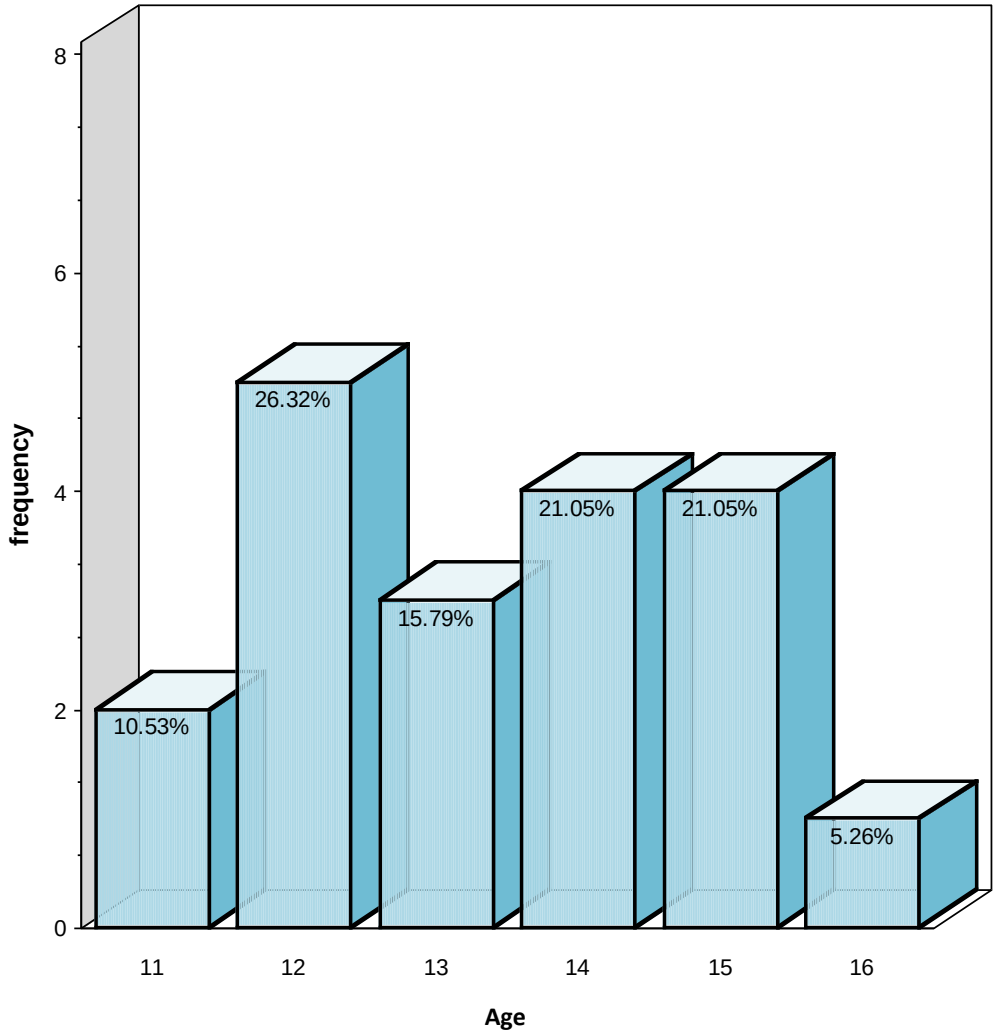


```
pattern1 color = lightblue;
axis1 label = (a=90 f= "Arial/bold"  "frequency") minor =(n=2) order=(0 to 8 by 2);
axis2 label = (f= "Calibri/bold" "Age");
proc gchart data = sashelp;
title1' Simple Bar Chart';
vbar age /   discrete width = 8 inside = percent raxis= axis1 maxis= axis2 coutline=black  woutline=2;
run;
```

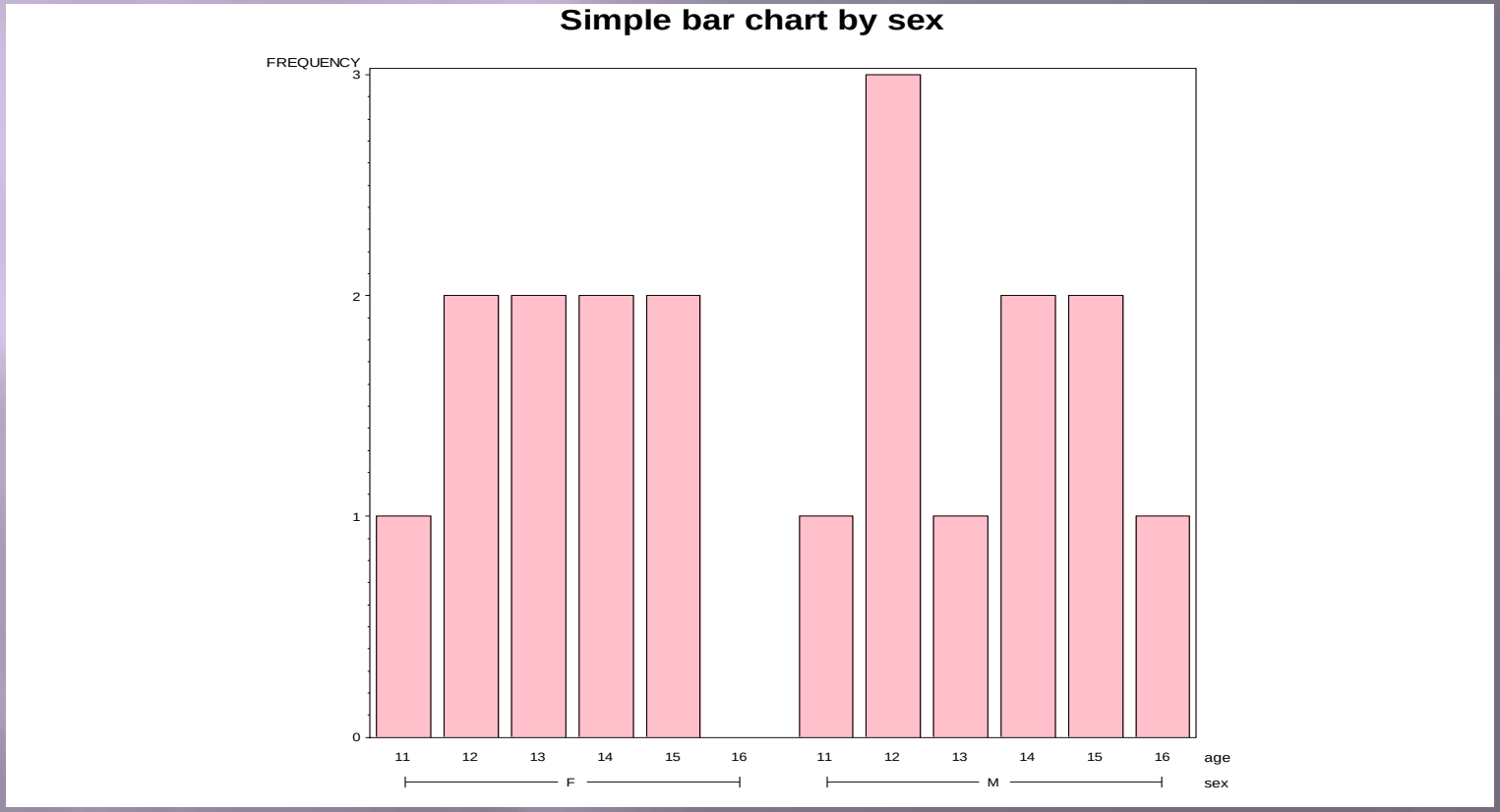
Simple Bar Chart



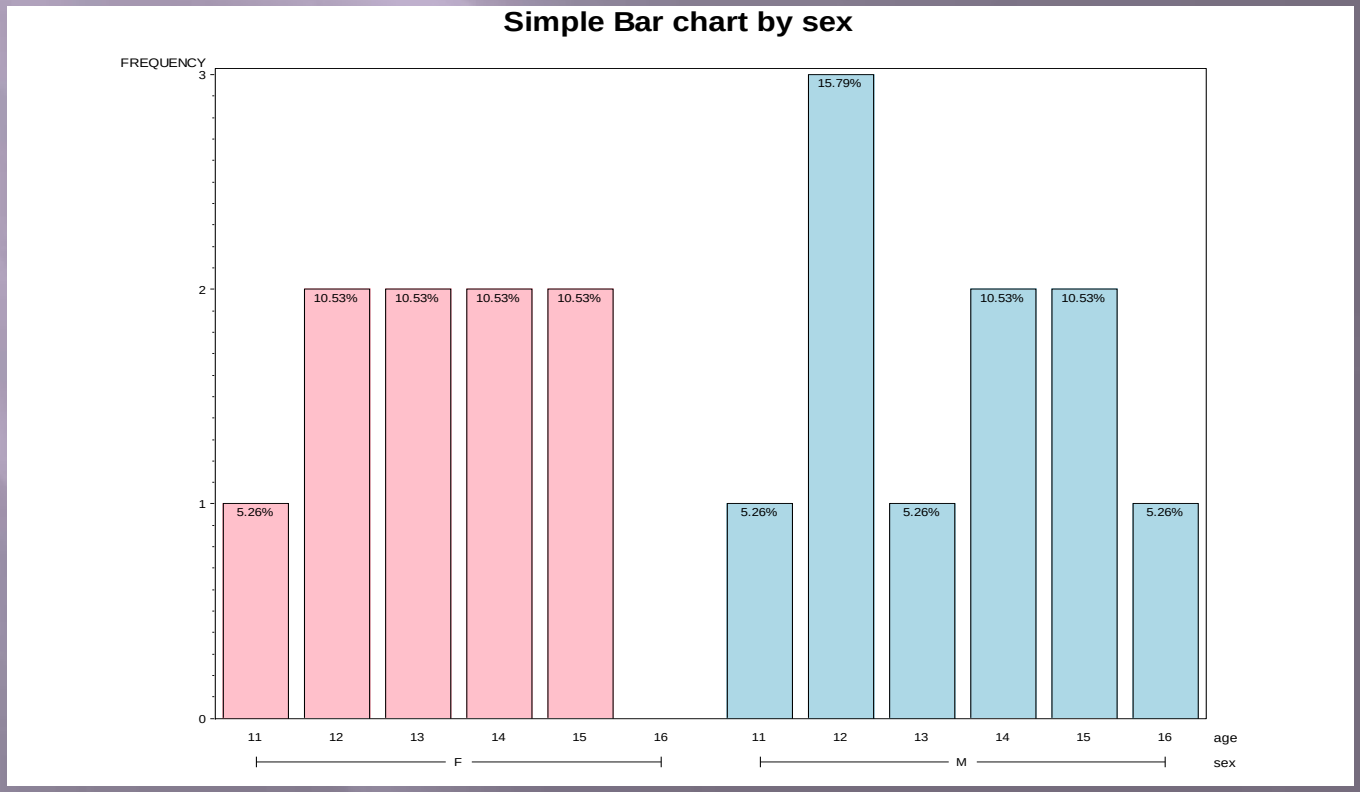
Simple Bar Chart



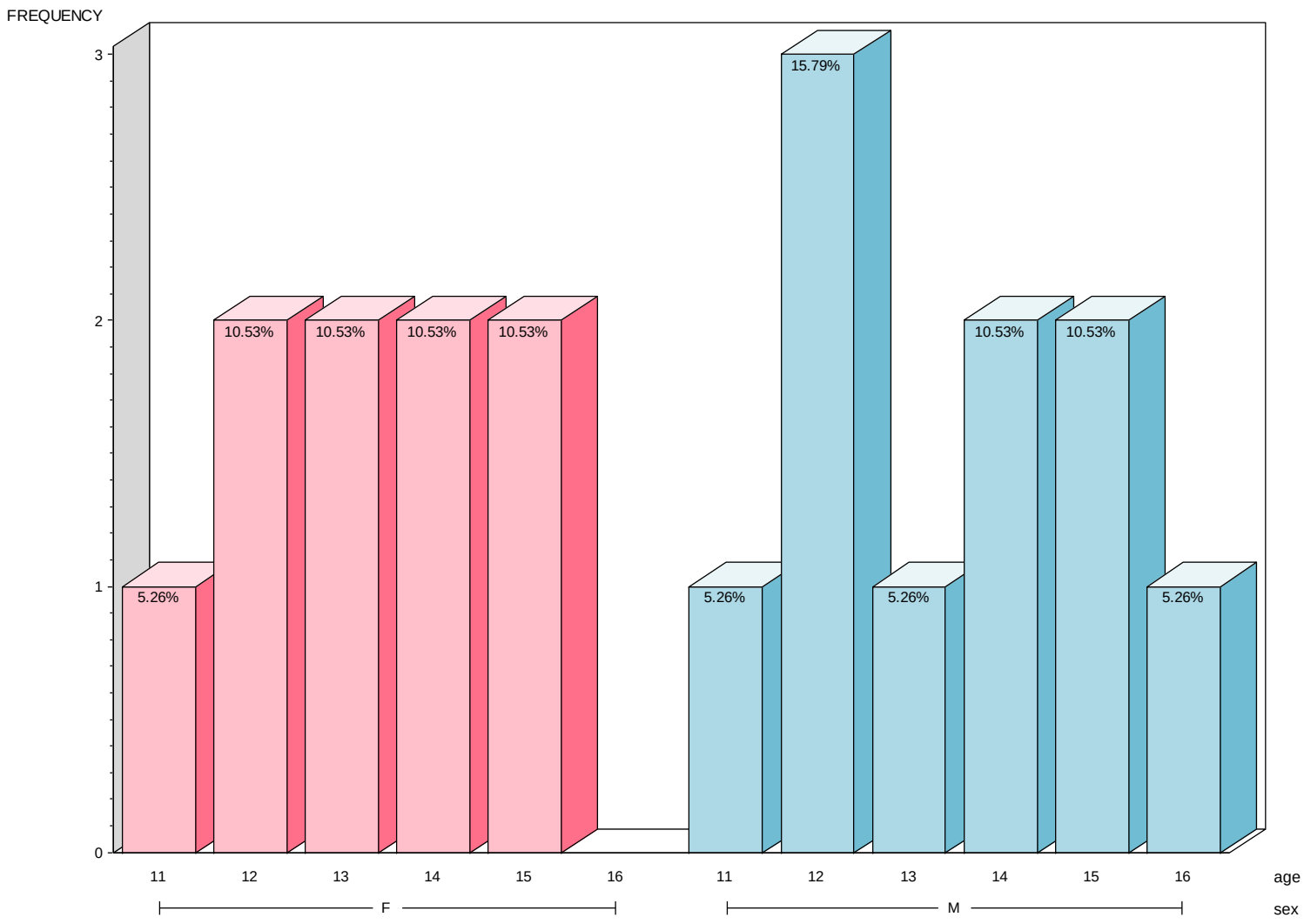
```
proc gchart data = sashelp;
title1' Simple bar chart by sex';
vbar age /  discrete width = 6 inside = percent group = sex;
run;
```



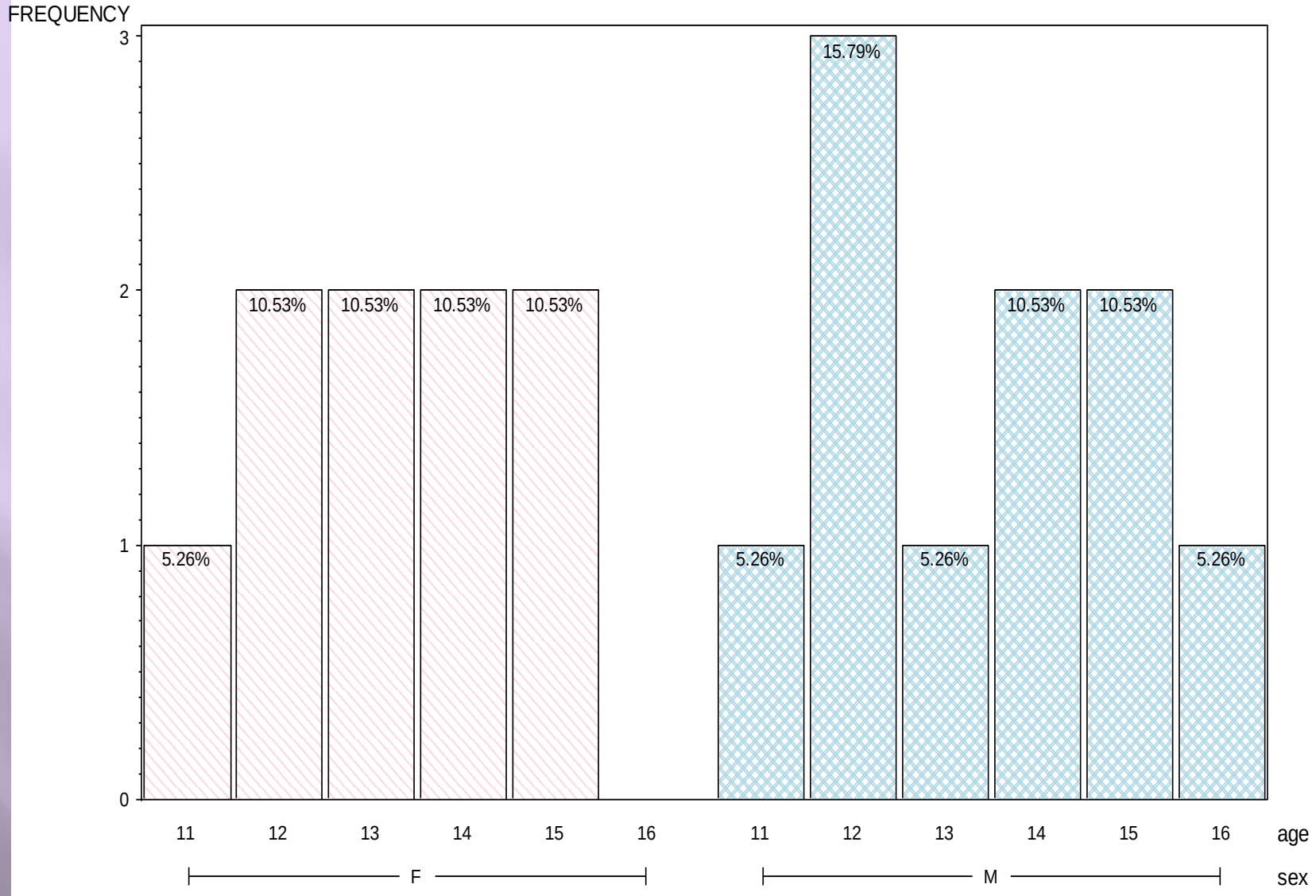
```
pattern1 color = pink;
pattern2 color = lightblue;
proc gchart data = sashelp;
title1' Simple Bar chart by sex ';
vbar age /  discrete width = 8 inside = percent group = sex patternID =
group;
run;
```



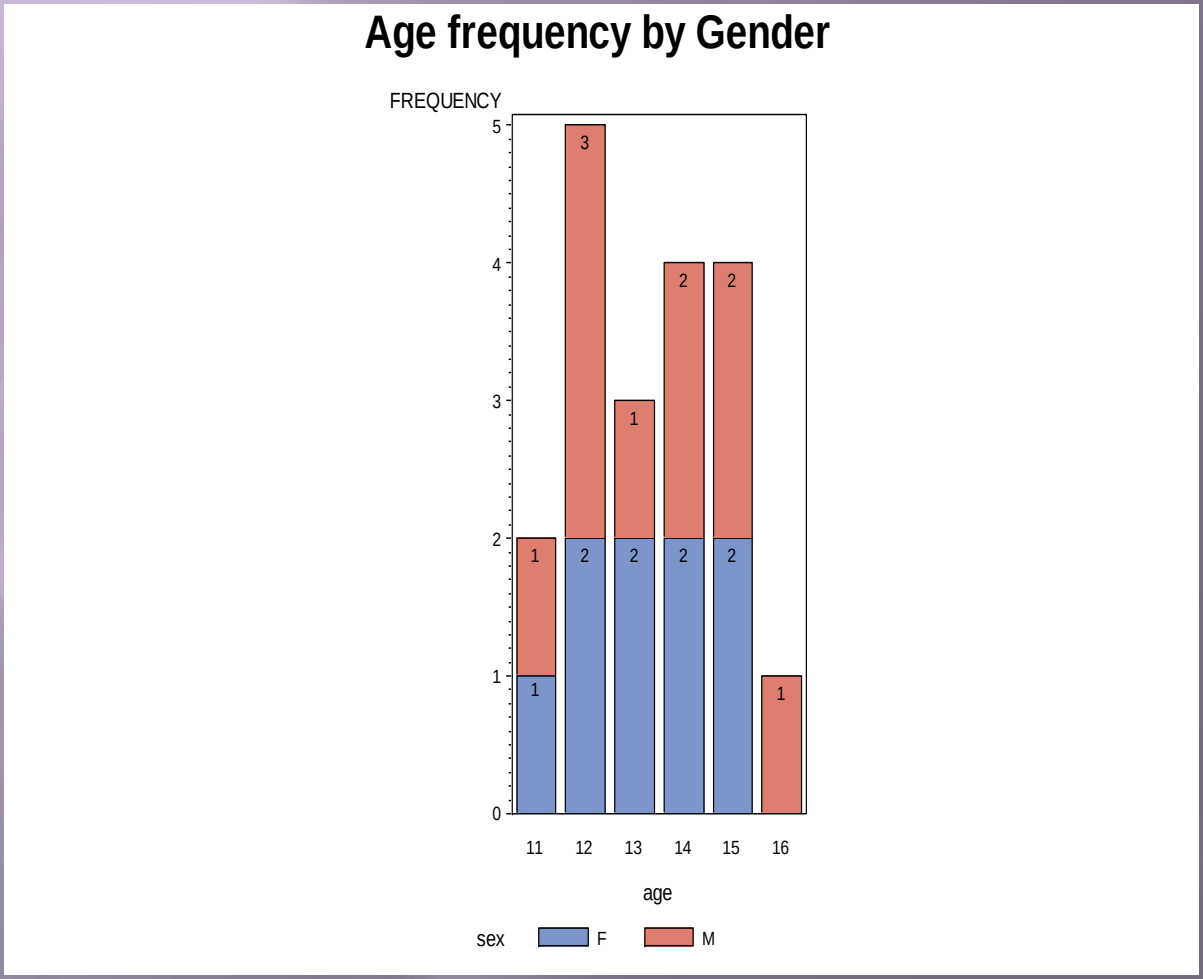
Simple Bar chart by sex



Simple Bar chart by sex

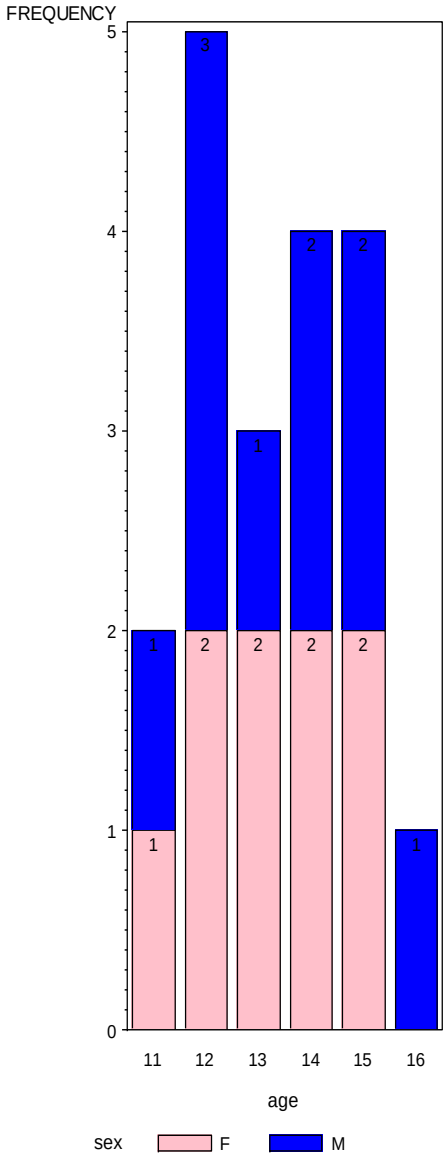


```
proc gchart data = sashelp;
vbar age / discrete  inside = freq  subgroup = sex;
run;
```

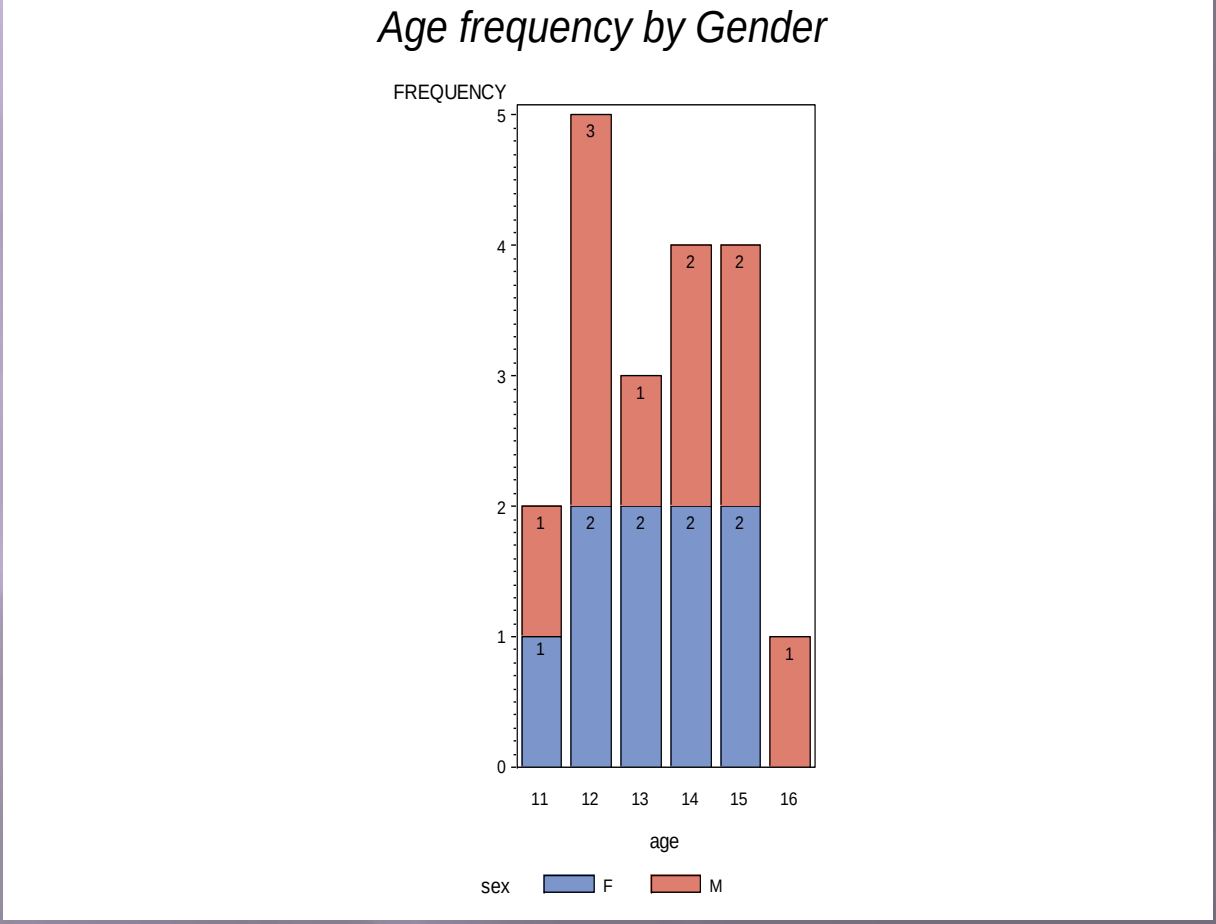


```
pattern1 color = pink;
pattern2 color = blue;
proc gchart data = sashelp;
title1' Simple Bar Chart';
vbar age / discrete  inside = freq  subgroup =
sex  patternID = subgroup;
run;
```

Simple Bar Chart



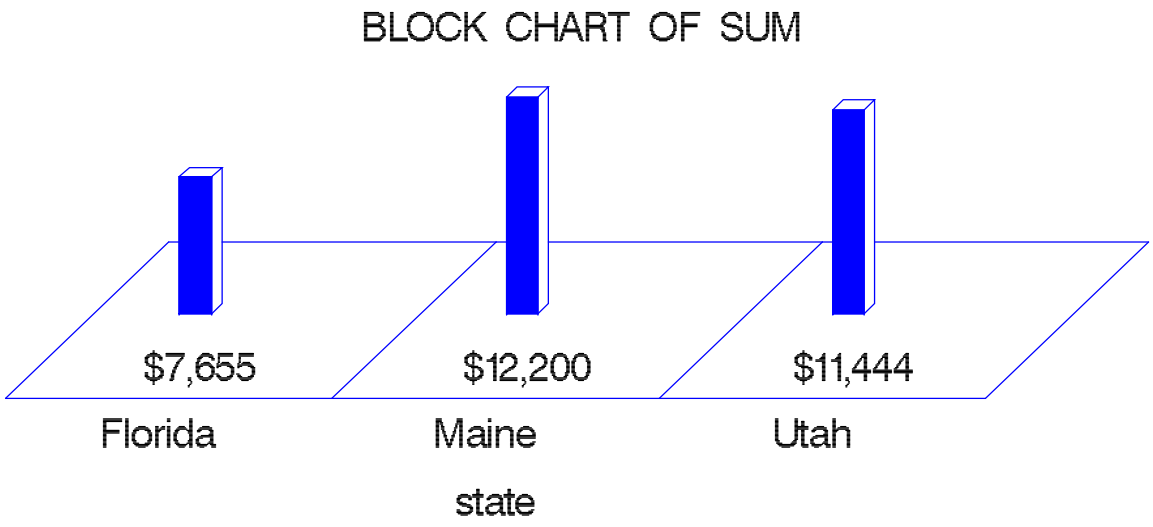
```
proc gchart data = sashelp;
title1 f = "Arial/italic" ' Age frequency by Gender ';
vbar age / discrete  inside = freq  subgroup = sex;
run;
```



```
data mydata;
input state $ Quarter Sales;
datalines;
Florida          1    2043.37
Maine    1    1225.26
Utah      1    1543.32
Florida   2    2043.32
Maine    2    2225.26
Utah     2    2543.32
Florida   3   2343.32
Maine    3   5325.26
Utah     3   4043.32
Florida  4   1225.24
Maine    4   3424.13
Utah     4   3314.25
;
run;
```

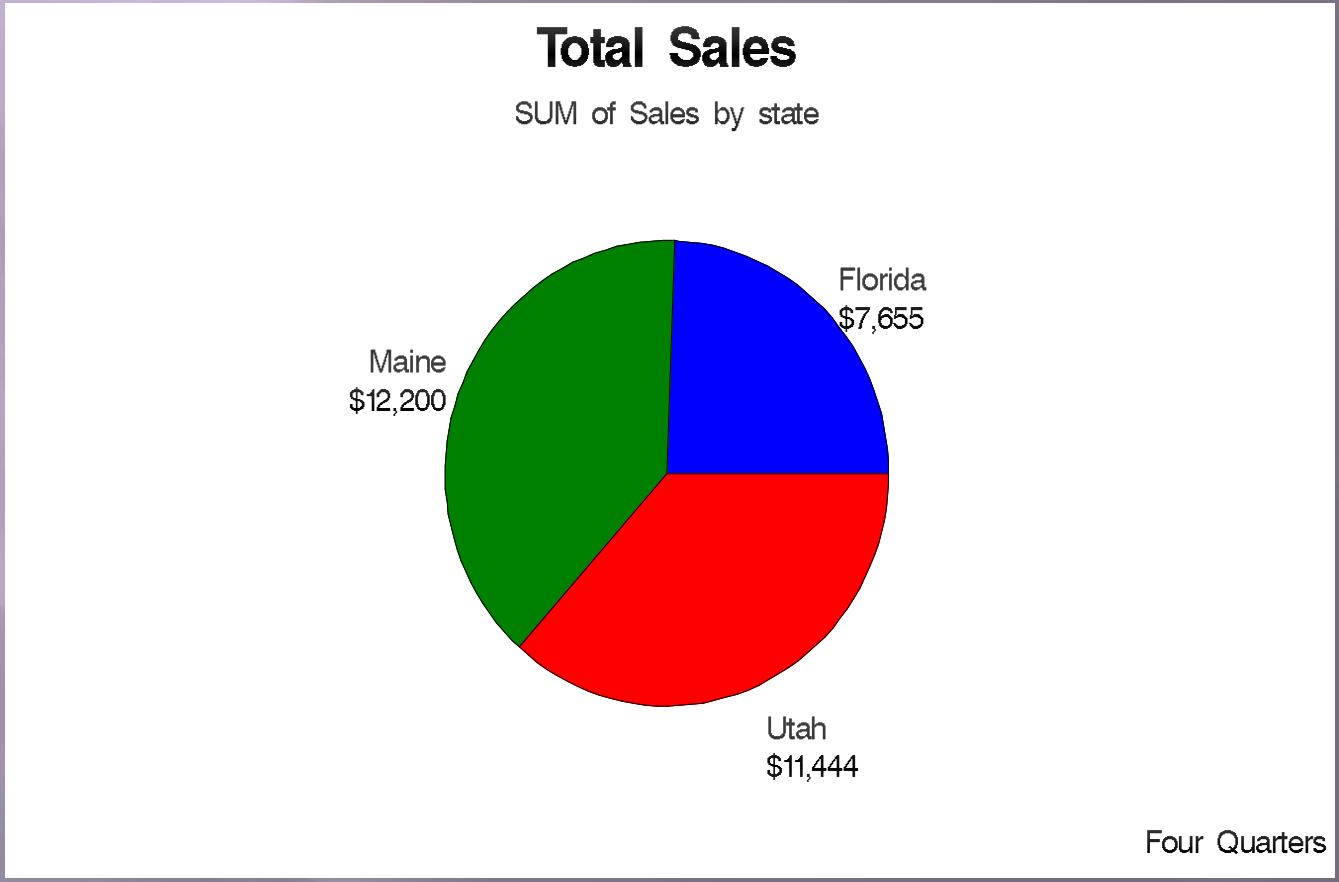
```
GOPTIONS CTEXT = BLACK COLORS = (BLUE GREEN RED)
        FTEXT = SWISS FTITLE = SWISSB HTITLE= 6 HTEXT=3.5;

title 'Total Sales';
FOOTNOTE J=r 'Four Quarters';
proc gchart data = mydata;
format Sales Dollar8.;
block State /sumvar =Sales;
run;
```

Total Sales



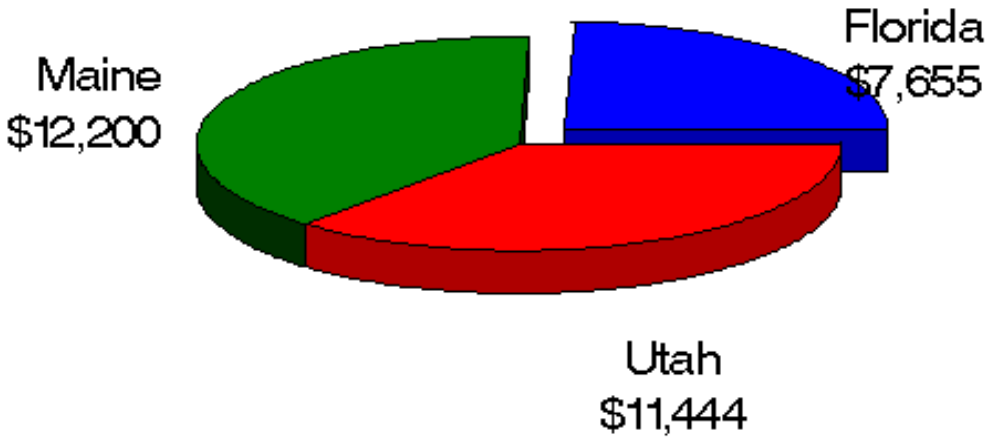
Four Quarters

```
proc gchart data = mydata;
format Sales Dollar8.;
pie  State /sumvar =Sales Coutline= black;
run;
Quit;
```



Total Sales

SUM of Sales by state



Four Quarters