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# Tables used by tests

The following 4 tables are used for testing purposes.

## Table #1

Nr	Period	Min	Acceptable	Target	Exceptional	Actual	Comment
1	Start	0	50	70	90	39	initial measure
2	FY03-Q1	0	35	75	95	55	
3	FY03-Q2	0	35	75	95	36	
4	FY03-Q3	0	40	80	100	62	
5	FY03-Q4	0	40	80	100	72	
6	FY04-Q1	0	40	80	100	68	

## Table #2

This table is the same as the 1st except that the data is row oriented instead of column oriented.

Nr	1	2	3	5	5	6
Period	Start	FY03-Q1	FY03-Q2	FY03-Q3	FY03-Q4	FY04-Q1
Min	0	0	0	0	0	0
Acceptable	50	35	35	40	40	40
Target	70	75	75	80	80	80
Exceptional	90	95	95	100	100	100
Actual	39	55	36	62	72	68
Comment	initial measure					

## Table #3

This table is used for showing scatter graphs.

A	B	C	D	E
1	3	6	33	2
1.4	6	22	2	4
1.8	2	5		6
2.5	4	3		8
4	7	6	43	10
5	13	44	25	12
7	8	1	4	14
6	35	3	8	16
8	2	22	4	18
9	7	6	13	20

## Table #4

This table is used for various legend placement tests as well as logarithmic data.

	line 1	line 2	line 3	line 4	sparse 1	sparse 2	semilog line
1990	0	0	0	0	0		0.2

1991	0	0	0	0		35	1
1992	2	12	22	32	35.5		5
1993	3	20	20	33	38	35.2	25
1994	3	20	19.5	33	38.1		125
1995	39	38	37	36		35.8	625
1996	40	40	40	40	38.1		3125
1997	40	41	42	43		35	15625

# General tests

## line tests

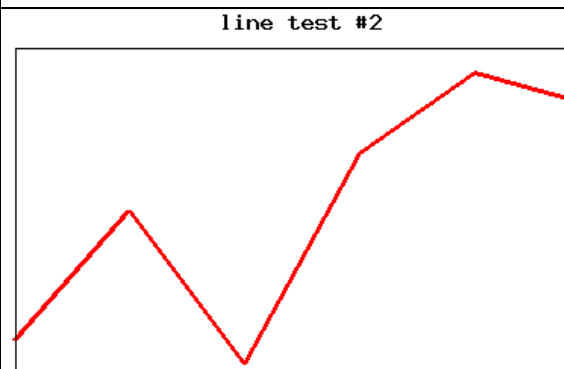
Simple single line. No other markings at all

```
%CHART{data="R2:C7..R7:C7" name="line_1"  
table="table1" type="line" ygrid="off"}%
```



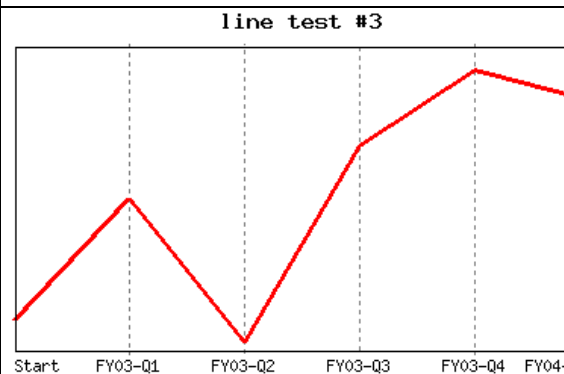
Simple single line, add title.

```
%CHART{data="R2:C7..R7:C7" name="line_2"  
table="table1" title="line test #2" type="line"  
ygrid="off"}%
```



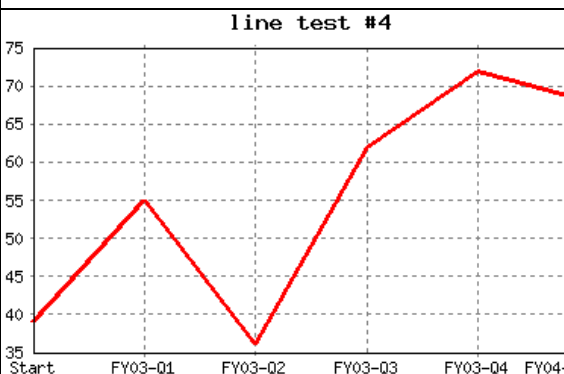
Add X axis to above

```
%CHART{data="R2:C7..R7:C7" name="line_3"  
table="table1" title="line test #3" type="line"  
xaxis="R2:C2..R7:C2" ygrid="off"}%
```



Add Y axis to above

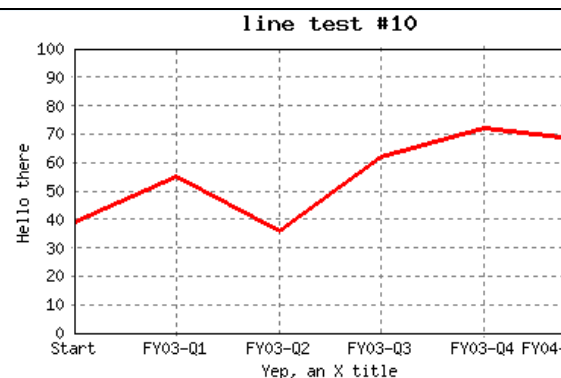
```
%CHART{data="R2:C7..R7:C7" name="line_4"  
table="table1" title="line test #4" type="line"  
xaxis="R2:C2..R7:C2" yaxis="on"}%
```



<p>Add ymin = 0 to above</p> <pre>%CHART{data="R2:C7..R7:C7" name="line_5" table="table1" title="line test #5" type="line" xaxis="R2:C2..R7:C2" yaxis="on" ymin="0"}%</pre>	<p><b>line test #5</b></p> 
<p>Add ymax = 100 to above</p> <pre>%CHART{data="R2:C7..R7:C7" name="line_6" table="table1" title="line test #6" type="line" xaxis="R2:C2..R7:C2" yaxis="on" ymax="100" ymin="0"}%</pre>	<p><b>line test #6</b></p> 
<p>Add ylabel "Hello there" to above</p> <pre>%CHART{data="R2:C7..R7:C7" name="line_7" table="table1" title="line test #7" type="line" xaxis="R2:C2..R7:C2" yaxis="on" ylabel="Hello there" ymax="100" ymin="0"}%</pre>	<p><b>line test #7</b></p> 
<p>Add numygrids="5" above</p> <pre>%CHART{data="R2:C7..R7:C7" name="line_8" numygrids="5" table="table1" title="line test #8" type="line" xaxis="R2:C2..R7:C2" yaxis="on" ylabel="Hello there" ymax="100" ymin="0"}%</pre>	<p><b>line test #8</b></p> 
<p>Change numygrids="2" above</p> <pre>%CHART{data="R2:C7..R7:C7" name="line_9" numygrids="2" table="table1" title="line test #9" type="line" xaxis="R2:C2..R7:C2" yaxis="on" ylabel="Hello there" ymax="100" ymin="0"}%</pre>	<p><b>line test #9</b></p> 

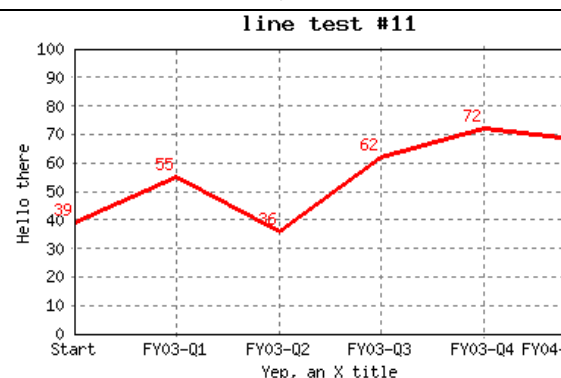
Remove numygrids from above and add xlabel "Yep, an X title" to above

```
%CHART{data="R2:C7..R7:C7" name="line_10"
table="table1" title="line test #10"
type="line" xaxis="R2:C2..R7:C2" xlabel="Yep,
an X title" yaxis="on" ylabel="Hello there"
ymax="100" ymin="0"}%
```



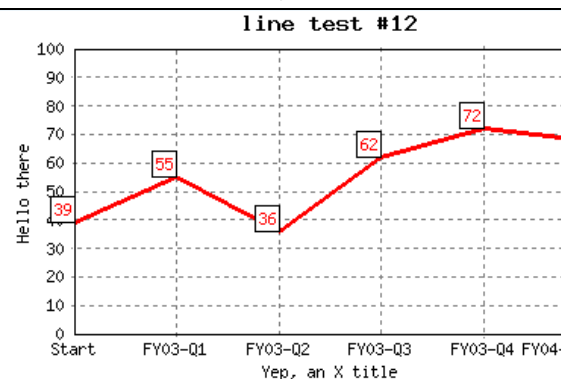
Add datalabel = on to above

```
%CHART{data="R2:C7..R7:C7" datalabel="on"
name="line_11" table="table1" title="line test
#11" type="line" xaxis="R2:C2..R7:C2"
xlabel="Yep, an X title" yaxis="on"
ylabel="Hello there" ymax="100" ymin="0"}%
```



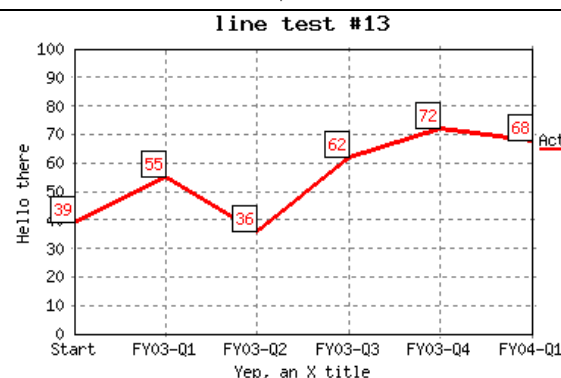
Add datalabel = box to above

```
%CHART{data="R2:C7..R7:C7" datalabel="box"
name="line_12" table="table1" title="line test
#12" type="line" xaxis="R2:C2..R7:C2"
xlabel="Yep, an X title" yaxis="on"
ylabel="Hello there" ymax="100" ymin="0"}%
```



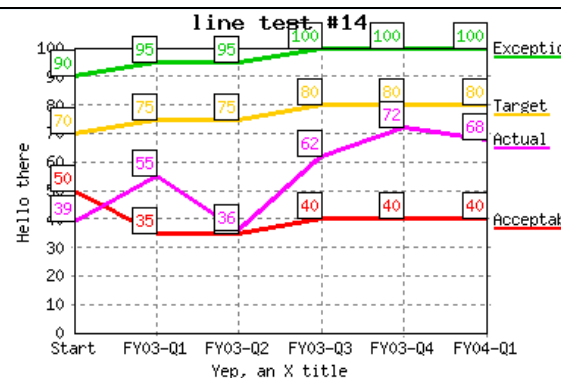
Add legend to above

```
%CHART{data="R2:C7..R7:C7" datalabel="box"
legend="R1:C7..R1:C7" name="line_13"
table="table1" title="line test #13"
type="line" xaxis="R2:C2..R7:C2" xlabel="Yep,
an X title" yaxis="on" ylabel="Hello there"
ymax="100" ymin="0"}%
```



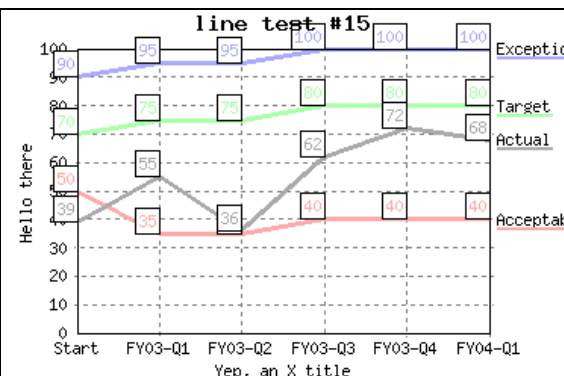
Add additional data lines to above and update legend

```
%CHART{data="R2:C4..R7:C7" datalabel="box"
legend="R1:C4..R1:C7" name="line_14"
table="table1" title="line test #14"
type="line" xaxis="R2:C2..R7:C2" xlabel="Yep,
an X title" yaxis="on" ylabel="Hello there"
ymax="100" ymin="0"}%
```



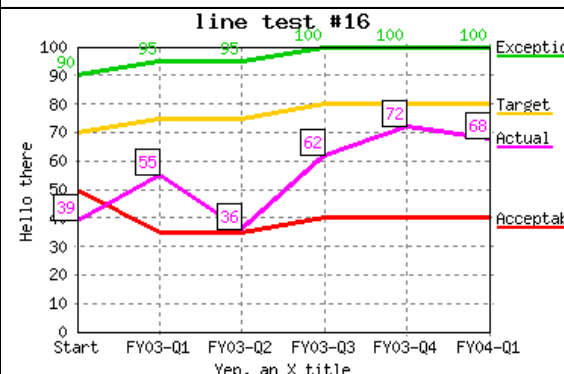
Specify different colors to above. Now are lite red, lite green, lite blue, gray instead of defaults

```
%CHART{colors="#ffAAAA, #AAffAA, #AAAAff, #AAAAAA"
data="R2:C4..R7:C7" datalabel="box"
legend="R1:C4..R1:C7" name="line_15"
table="table1" title="line test #15"
type="line" xaxis="R2:C2..R7:C2" xlabel="Yep,
an X title" yaxis="on" ylabel="Hello there"
ymax="100" ymin="0"}%
```



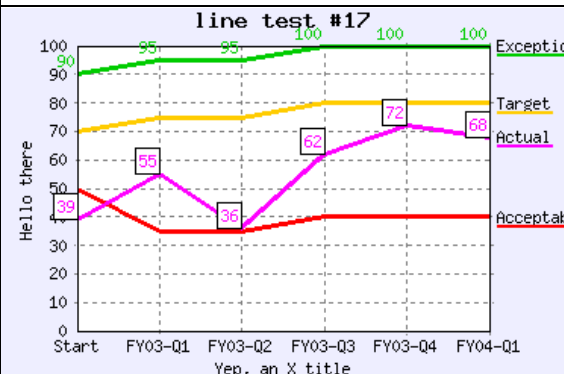
Restore default colors and change datalabel such that only the last line has values in boxes and the 2nd to last has values (no box) to above

```
%CHART{data="R2:C4..R7:C7" datalabel="off off
on box" legend="R1:C4..R1:C7" name="line_16"
table="table1" title="line test #16"
type="line" xaxis="R2:C2..R7:C2" xlabel="Yep,
an X title" yaxis="on" ylabel="Hello there"
ymax="100" ymin="0"}%
```



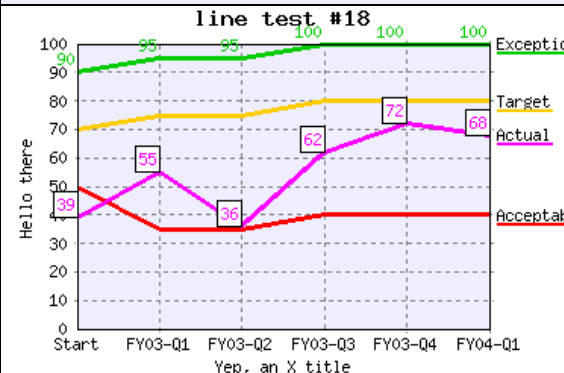
Same as above except specify bgcolor="#EEEEEE"

```
=%CHART{bgcolor="#EEEEFF" data="R2:C4..R7:C7"
datalabel="off off on box" legend="R1:C4..R1:C7" name="line_17"
table="table1" title="line test #17" type="line" xaxis="R2:C2..R7:C2"
xlabel="Yep, an X title" yaxis="on" ylabel="Hello there"
ymax="100" ymin="0"}%
```



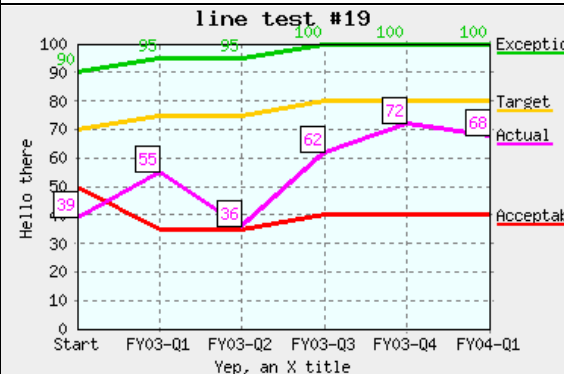
Change bgcolor="#FFFFFF #EEEEEE"

```
=%CHART{bgcolor="#FFFFFF #EEEEFF" data="R2:C4..R7:C7"
datalabel="off off on box" legend="R1:C4..R1:C7" name="line_18"
table="table1" title="line test #18" type="line" xaxis="R2:C2..R7:C2"
xlabel="Yep, an X title" yaxis="on" ylabel="Hello there"
ymax="100" ymin="0"}%
```



Change bgcolor="#EEEEEE #EEFFEE"

```
=%CHART{bgcolor="#EEEEEE #EEFFEE" data="R2:C4..R7:C7"
datalabel="off off on box" legend="R1:C4..R1:C7" name="line_19"
table="table1" title="line test #19" type="line" xaxis="R2:C2..R7:C2"
xlabel="Yep, an X title" yaxis="on" ylabel="Hello there"
ymax="100" ymin="0"}%
```



<p>Restore bgcolor and change ygrid = on to above</p> <pre>%CHART{data="R2:C4..R7:C7" datalabel="off off on box" legend="R1:C4..R1:C7" name="line_20" table="table1" title="line test #20" type="line" xaxis="R2:C2..R7:C2" xlabel="Yep, an X title" yaxis="on" ygrid="on" ylabel="Hello there" ymax="100" ymin="0"}%</pre>	
<p>Change ygrid = off to above</p> <pre>%CHART{data="R2:C4..R7:C7" datalabel="off off on box" legend="R1:C4..R1:C7" name="line_21" table="table1" title="line test #21" type="line" xaxis="R2:C2..R7:C2" xlabel="Yep, an X title" yaxis="on" ygrid="off" ylabel="Hello there" ymax="100" ymin="0"}%</pre>	
<p>Change xgrid = on to above</p> <pre>%CHART{data="R2:C4..R7:C7" datalabel="off off on box" legend="R1:C4..R1:C7" name="line_22" table="table1" title="line test #22" type="line" xaxis="R2:C2..R7:C2" xgrid="on" xlabel="Yep, an X title" yaxis="on" ygrid="off" ylabel="Hello there" ymax="100" ymin="0"}%</pre>	
<p>Change xgrid = off to above</p> <pre>%CHART{data="R2:C4..R7:C7" datalabel="off off on box" legend="R1:C4..R1:C7" name="line_23" table="table1" title="line test #23" type="line" xaxis="R2:C2..R7:C2" xgrid="off" xlabel="Yep, an X title" yaxis="on" ygrid="off" ylabel="Hello there" ymax="100" ymin="0"}%</pre>	
<p>Change width = 450</p> <pre>%CHART{data="R2:C4..R7:C7" datalabel="off off on box" legend="R1:C4..R1:C7" name="line_24" table="table1" title="line test #24" type="line" width="450" xaxis="R2:C2..R7:C2" xgrid="off" xlabel="Yep, an X title" yaxis="on" ygrid="off" ylabel="Hello there" ymax="100" ymin="0"}%</pre>	



Change height = 150

```
%CHART{data="R2:C4..R7:C7" datalabel="off off  
on box" height="150" legend="R1:C4..R1:C7"  
name="line_25" table="table1" title="line test  
#25" type="line" width="450"  
xaxis="R2:C2..R7:C2" xgrid="off" xlabel="Yep,  
an X title" yaxis="on" ygrid="off"  
ylabel="Hello there" ymax="100" ymin="0"}%
```



Default width/height. Get data from ChartPluginTestsRemote. Specify table="2" on new topic = ChartPluginTestsRemote. Actual values should show up incremented by 0.52 since data is from a different topic page and the 0.02 denotes the data is from the 2nd table. Legend should show up with Remote since the data on the remote page was set up to include Remote in the legends

```
%CHART{data="R4:C2..R7:C7" datalabel="off off  
on box" legend="R4:C1..R7:C1" name="line_26"  
table="2" title="line test #26"  
topic="ChartPluginTestsRemote" type="line"  
xaxis="R2:C2..R2:C7" xgrid="off" xlabel="Yep,  
an X title" yaxis="on" ygrid="off"  
ylabel="Hello there" ymax="100" ymin="0"}%
```



Same as above except add an additional data set (**averages**) that is calculated by %CALC%. Also shows that since only 4 default line colors are specified, the 5th line reuses the 1st default line color.

```
%CHART{data="R4:C2..R8:C7" datalabel="off off  
on box" legend="R4:C1..R8:C1" name="line_27"  
table="2" title="line test #26"  
topic="ChartPluginTestsRemote" type="line"  
xaxis="R2:C2..R2:C7" xgrid="off" xlabel="Yep,  
an X title" yaxis="on" ygrid="off"  
ylabel="Hello there" ymax="100" ymin="0"}%
```



Set title = "Set a new title" to above

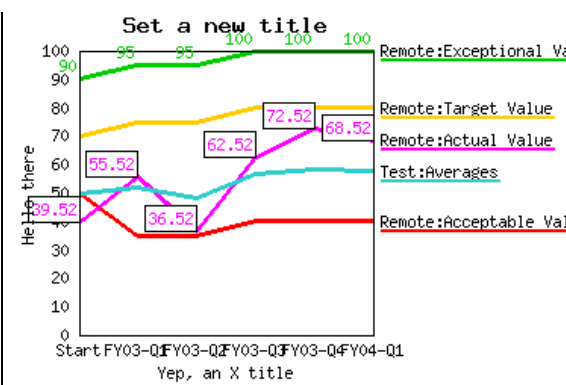
```
%CHART{data="R4:C2..R8:C7" datalabel="off off  
on box" legend="R4:C1..R8:C1" name="line_28"  
table="2" title="Set a new title"  
topic="ChartPluginTestsRemote" type="line"  
xaxis="R2:C2..R2:C7" xgrid="off" xlabel="Yep,  
an X title" yaxis="on" ygrid="off"  
ylabel="Hello there" ymax="100" ymin="0"}%
```



Same as above except add the alt tag = This is the alt tag

```
%CHART{alt="This is the alt tag"  
data="R4:C2..R8:C7" datalabel="off off on box"  
legend="R4:C1..R8:C1" name="line_29" table="2"  
title="Set a new title"  
topic="ChartPluginTestsRemote" type="line"  
xaxis="R2:C2..R2:C7" xgrid="off" xlabel="Yep,
```

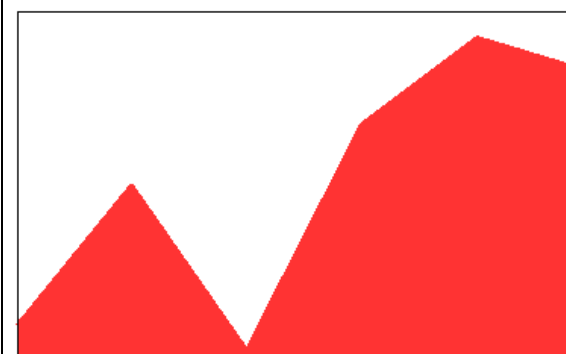
```
an X title" yaxis="on" ygrid="off"
ylabel="Hello there" ymax="100" ymin="0"}%
```



## area tests

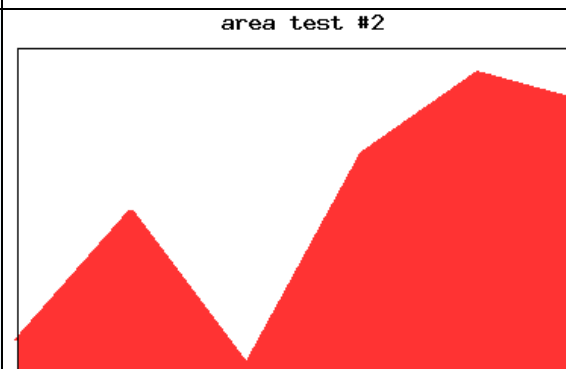
Simple single area. No other markings at all

```
%CHART{data="R2:C7..R7:C7" name="area_1"
table="table1" type="area" ygrid="off"}%
```



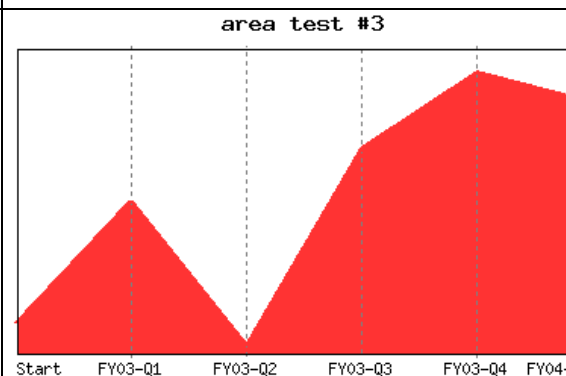
Simple single area, add title.

```
%CHART{data="R2:C7..R7:C7" name="area_2"
table="table1" title="area test #2" type="area"
ygrid="off"}%
```



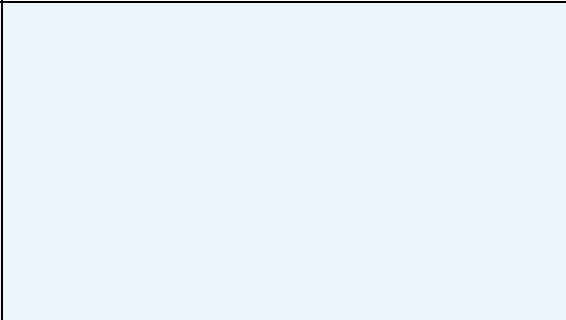
Add X axis to above

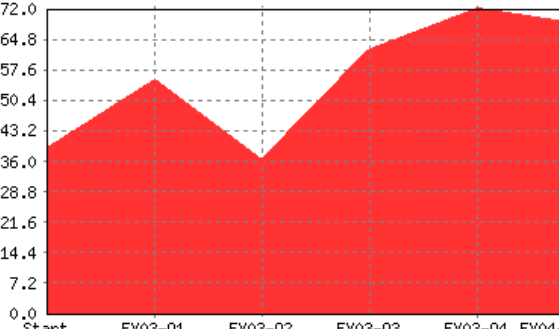
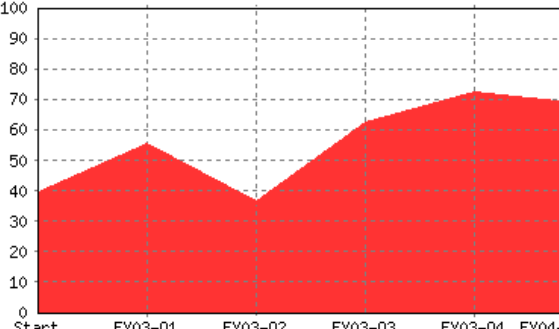
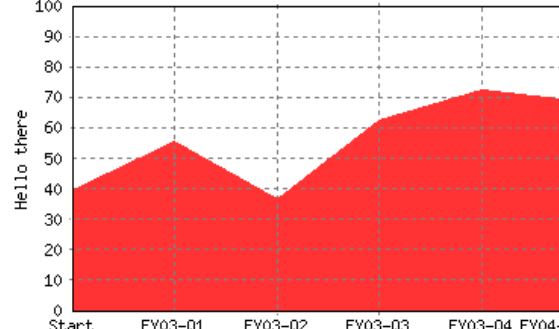
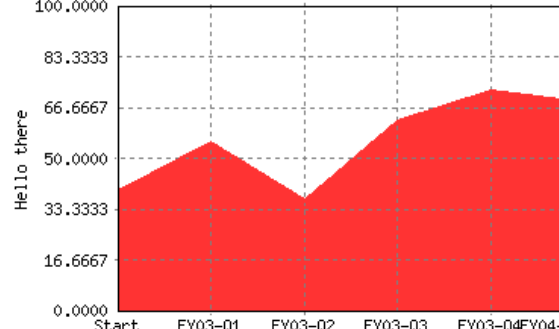
```
%CHART{data="R2:C7..R7:C7" name="area_3"
table="table1" title="area test #3" type="area"
xaxis="R2:C2..R7:C2" ygrid="off"}%
```



Add Y axis to above

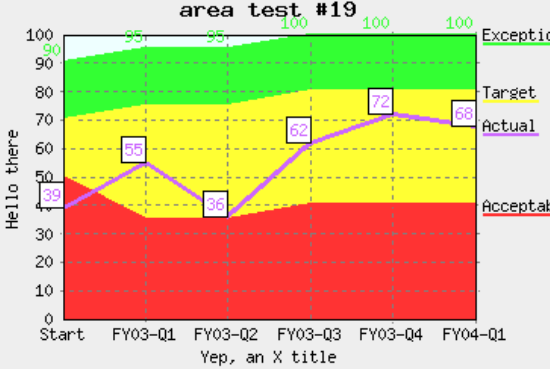
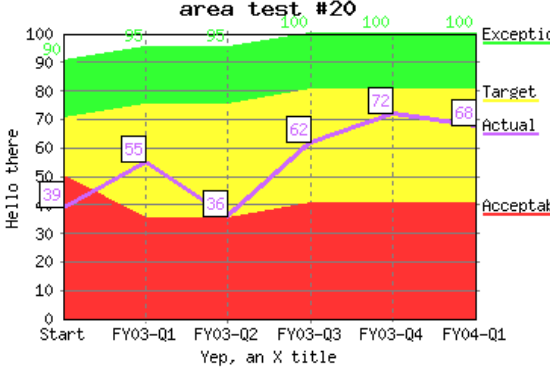
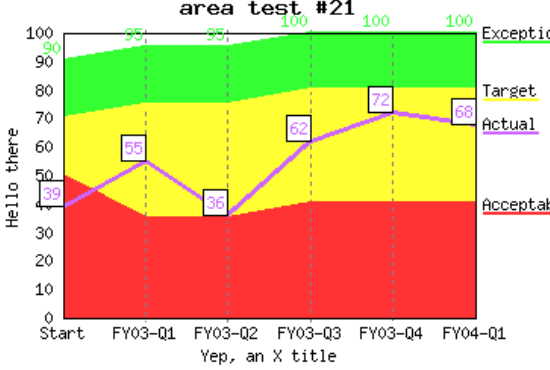
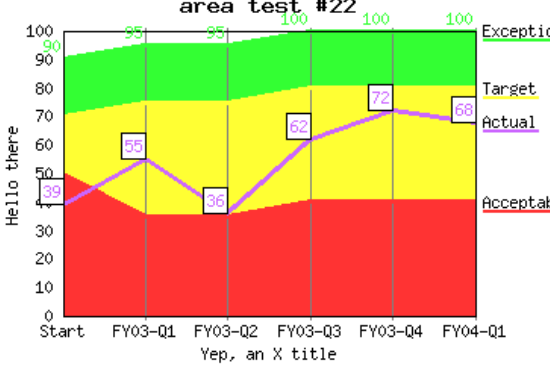
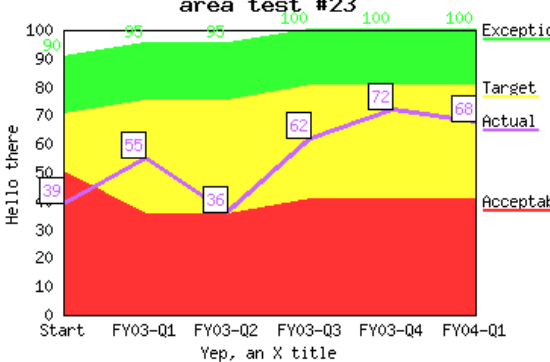
```
%CHART{data="R2:C7..R7:C7" name="area_4"
table="table1" title="area test #4" type="area"
xaxis="R2:C2..R7:C2" yaxis="on"}%
```



	<p><b>area test #4</b></p> 
<p>Add ymin = 0 to above</p> <pre>%CHART{data="R2:C7..R7:C7" name="area_5" table="table1" title="area test #5" type="area" xaxis="R2:C2..R7:C2" yaxis="on" ymin="0"}%</pre>	<p><b>area test #5</b></p> 
<p>Add ymax = 100 to above</p> <pre>%CHART{data="R2:C7..R7:C7" name="area_6" table="table1" title="area test #6" type="area" xaxis="R2:C2..R7:C2" yaxis="on" ymax="100" ymin="0"}%</pre>	<p><b>area test #6</b></p> 
<p>Add ylabel "Hello there" to above</p> <pre>%CHART{data="R2:C7..R7:C7" name="area_7" table="table1" title="area test #7" type="area" xaxis="R2:C2..R7:C2" yaxis="on" ylabel="Hello there" ymax="100" ymin="0"}%</pre>	<p><b>area test #7</b></p> 
<p>Add numygrids="5" above</p> <pre>%CHART{data="R2:C7..R7:C7" name="area_8" numygrids="5" table="table1" title="area test #8" type="area" xaxis="R2:C2..R7:C2" yaxis="on" ylabel="Hello there" ymax="100" ymin="0"}%</pre>	<p><b>area test #8</b></p> 

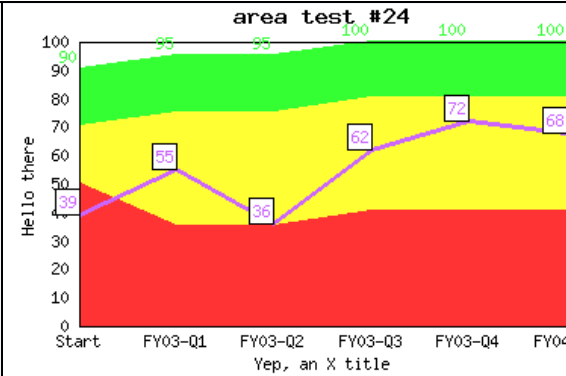
<p>Change numygrids="2" above</p> <pre>%CHART{data="R2:C7..R7:C7" name="area_9" numygrids="2" table="table1" title="area test #9" type="area" xaxis="R2:C2..R7:C2" yaxis="on" ylabel="Hello there" ymax="100" ymin="0"}%</pre>	
<p>Remove numygrids from above and add xlabel "Yep, an X title" to above</p> <pre>%CHART{data="R2:C7..R7:C7" name="area_10" table="table1" title="area test #10" type="area" xaxis="R2:C2..R7:C2" xlabel="Yep, an X title" yaxis="on" ylabel="Hello there" ymax="100" ymin="0"}%</pre>	
<p>Add datalabel = on to above</p> <pre>%CHART{data="R2:C7..R7:C7" datalabel="on" name="area_11" table="table1" title="area test #11" type="area" xaxis="R2:C2..R7:C2" xlabel="Yep, an X title" yaxis="on" ylabel="Hello there" ymax="100" ymin="0"}%</pre>	
<p>Add datalabel = box to above</p> <pre>%CHART{data="R2:C7..R7:C7" datalabel="box" name="area_12" table="table1" title="area test #12" type="area" xaxis="R2:C2..R7:C2" xlabel="Yep, an X title" yaxis="on" ylabel="Hello there" ymax="100" ymin="0"}%</pre>	
<p>Add legend to above</p> <pre>%CHART{data="R2:C7..R7:C7" datalabel="box" legend="R1:C7..R1:C7" name="area_13" table="table1" title="area test #13" type="area" xaxis="R2:C2..R7:C2" xlabel="Yep, an X title" yaxis="on" ylabel="Hello there" ymax="100" ymin="0"}%</pre>	

<p>Add additional data areas to above and update legend</p> <pre>%CHART{data="R2:C4..R7:C7" datalabel="box" legend="R1:C4..R1:C7" name="area_14" table="table1" title="area test #14" type="area" xaxis="R2:C2..R7:C2" xlabel="Yep, an X title" yaxis="on" ylabel="Hello there" ymax="100" ymin="0"}%</pre>	
<p>Specify different colors to above. Now are lite red, lite green, lite blue, gray instead of defaults</p> <pre>%CHART{colors="#ffAAAA, #AAffAA, #AAAAff, #AAAAAA" data="R2:C4..R7:C7" datalabel="box" legend="R1:C4..R1:C7" name="area_15" table="table1" title="area test #15" type="area" xaxis="R2:C2..R7:C2" xlabel="Yep, an X title" yaxis="on" ylabel="Hello there" ymax="100" ymin="0"}%</pre>	
<p>Restore default colors and change datalabel such that only the last area has values in boxes and the 2nd to last has values (no box) to above</p> <pre>%CHART{data="R2:C4..R7:C7" datalabel="off off on box" legend="R1:C4..R1:C7" name="area_16" table="table1" title="area test #16" type="area" xaxis="R2:C2..R7:C2" xlabel="Yep, an X title" yaxis="on" ylabel="Hello there" ymax="100" ymin="0"}%</pre>	
<p>Same as above except specify bgcolor="#EEEEEE"</p> <pre>=%CHART{bgcolor="#EEEEFF" data="R2:C4..R7:C7" datalabel="off off on box" legend="R1:C4..R1:C7" name="area_17" table="table1" title="area test #17" type="area" xaxis="R2:C2..R7:C2" xlabel="Yep, an X title" yaxis="on" ylabel="Hello there" ymax="100" ymin="0"}%</pre>	
<p>Change bgcolor="#FFFFFF #EEEEEE"</p> <pre>=%CHART{bgcolor="#FFFFFF #EEEEFF" data="R2:C4..R7:C7" datalabel="off off on box" legend="R1:C4..R1:C7" name="area_18" table="table1" title="area test #18" type="area" xaxis="R2:C2..R7:C2" xlabel="Yep, an X title" yaxis="on" ylabel="Hello there" ymax="100" ymin="0"}%</pre>	

<p>Change bgcolor="#EEEEEE #EEFFEE"</p> <pre>%CHART{bgcolor="#EEEEEE #EEFFEE" data="R2:C4..R7:C7" datalabel="off off on box" legend="R1:C4..R1:C7" name="area_19" table="table1" title="area test #19" type="area" xaxis="R2:C2..R7:C2" xlabel="Yep, an X title" yaxis="on" ylabel="Hello there" ymax="100" ymin="0"}%</pre>	
<p>Restore bgcolor and change ygrid = on to above</p> <pre>%CHART{data="R2:C4..R7:C7" datalabel="off off on box" legend="R1:C4..R1:C7" name="area_20" table="table1" title="area test #20" type="area" xaxis="R2:C2..R7:C2" xlabel="Yep, an X title" yaxis="on" ygrid="on" ylabel="Hello there" ymax="100" ymin="0"}%</pre>	
<p>Change ygrid = off to above</p> <pre>%CHART{data="R2:C4..R7:C7" datalabel="off off on box" legend="R1:C4..R1:C7" name="area_21" table="table1" title="area test #21" type="area" xaxis="R2:C2..R7:C2" xlabel="Yep, an X title" yaxis="on" ygrid="off" ylabel="Hello there" ymax="100" ymin="0"}%</pre>	
<p>Change xgrid = on to above</p> <pre>%CHART{data="R2:C4..R7:C7" datalabel="off off on box" legend="R1:C4..R1:C7" name="area_22" table="table1" title="area test #22" type="area" xaxis="R2:C2..R7:C2" xgrid="on" xlabel="Yep, an X title" yaxis="on" ygrid="off" ylabel="Hello there" ymax="100" ymin="0"}%</pre>	
<p>Change xgrid = off to above</p> <pre>%CHART{data="R2:C4..R7:C7" datalabel="off off on box" legend="R1:C4..R1:C7" name="area_23" table="table1" title="area test #23" type="area" xaxis="R2:C2..R7:C2" xgrid="off" xlabel="Yep, an X title" yaxis="on" ygrid="off" ylabel="Hello there" ymax="100" ymin="0"}%</pre>	

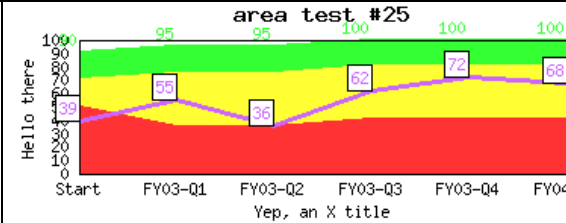
Change width = 450

```
%CHART{data="R2:C4..R7:C7" datalabel="off off
on box" legend="R1:C4..R1:C7" name="area_24"
table="table1" title="area test #24"
type="area" width="450" xaxis="R2:C2..R7:C2"
xgrid="off" xlabel="Yep, an X title" yaxis="on"
ygrid="off" ylabel="Hello there" ymax="100"
ymin="0"}%
```



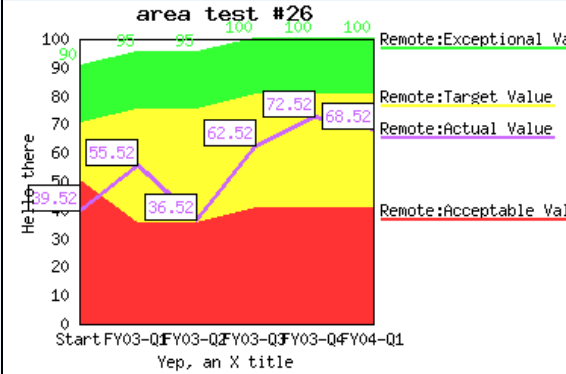
Change height = 150

```
%CHART{data="R2:C4..R7:C7" datalabel="off off
on box" height="150" legend="R1:C4..R1:C7"
name="area_25" table="table1" title="area test
#25" type="area" width="450"
xaxis="R2:C2..R7:C2" xgrid="off" xlabel="Yep,
an X title" yaxis="on" ygrid="off"
ylabel="Hello there" ymax="100" ymin="0"}%
```



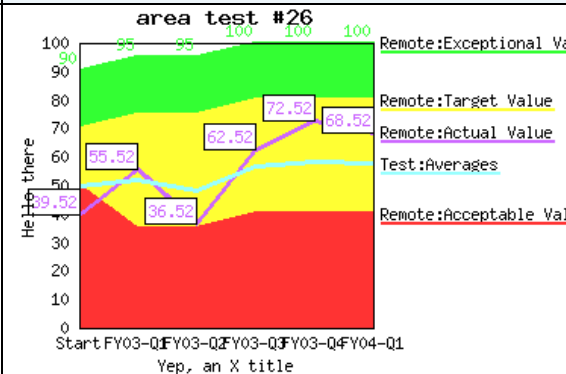
Default width/height. Get data from ChartPluginTestsRemote. Specify table="2" on new topic = ChartPluginTestsRemote. Actual values should show up incremented by 0.52 since data is from a different topic page and the 0.02 denotes the data is from the 2nd table. Legend should show up with Remote since the data on the remote page was set up to include Remote in the legends

```
%CHART{data="R4:C2..R7:C7" datalabel="off off
on box" legend="R4:C1..R7:C1" name="area_26"
table="2" title="area test #26"
topic="ChartPluginTestsRemote" type="area"
xaxis="R2:C2..R2:C7" xgrid="off" xlabel="Yep,
an X title" yaxis="on" ygrid="off"
ylabel="Hello there" ymax="100" ymin="0"}%
```



Same as above except add an additional data set (**averages**) that is calculated by %CALC%. Also shows that since only 4 default area colors are specified, the 5th area reuses the 1st default area color.

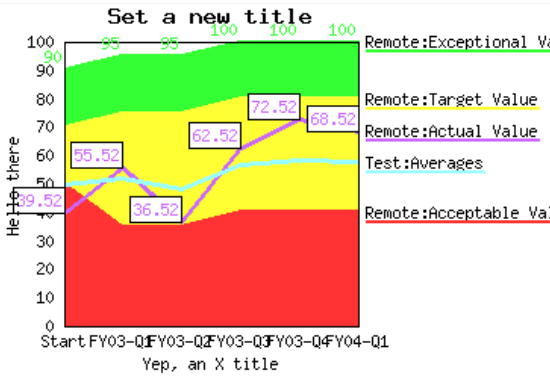
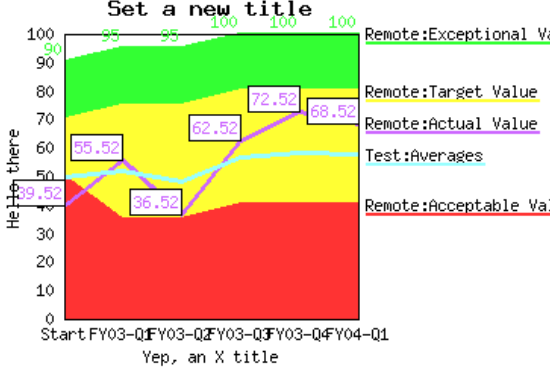
```
%CHART{data="R4:C2..R8:C7" datalabel="off off
on box" legend="R4:C1..R8:C1" name="area_27"
table="2" title="area test #26"
topic="ChartPluginTestsRemote" type="area"
xaxis="R2:C2..R2:C7" xgrid="off" xlabel="Yep,
an X title" yaxis="on" ygrid="off"
ylabel="Hello there" ymax="100" ymin="0"}%
```



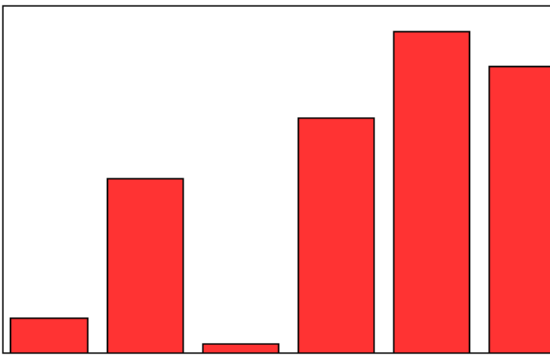
Set title = "Set a new title" to above

```
%CHART{data="R4:C2..R8:C7" datalabel="off off
on box" legend="R4:C1..R8:C1" name="area_28"
table="2" title="Set a new title"
topic="ChartPluginTestsRemote" type="area"
xaxis="R2:C2..R2:C7" xgrid="off" xlabel="Yep,
an X title" yaxis="on" ygrid="off"
ylabel="Hello there" ymax="100" ymin="0"}%
```



<pre>ylabel="Hello there" ymax="100" ymin="0"}%</pre>	
<p>Same as above except add the alt tag = This is the alt tag</p> <pre>%CHART{alt="This is the alt tag" data="R4:C2..R8:C7" datalabel="off off on box" legend="R4:C1..R8:C1" name="area_29" table="2" title="Set a new title" topic="ChartPluginTestsRemote" type="area" xaxis="R2:C2..R2:C7" xgrid="off" xlabel="Yep, an X title" yaxis="on" ygrid="off" ylabel="Hello there" ymax="100" ymin="0"}%</pre>	

## bar tests

<p>Simple single bar. No other markings at all</p> <pre>%CHART{data="R2:C7..R7:C7" name="bar_1" table="table1" type="bar" ygrid="off"}%</pre>	
<p>Simple single bar, add title.</p> <pre>%CHART{data="R2:C7..R7:C7" name="bar_2" table="table1" title="bar test #2" type="bar" ygrid="off"}%</pre>	<p>bar test #2</p> 
<p>Add X axis to above</p> <pre>%CHART{data="R2:C7..R7:C7" name="bar_3" table="table1" title="bar test #3" type="bar" xaxis="R2:C2..R7:C2" ygrid="off"}%</pre>	



	<p><b>bar test #3</b></p>  <table border="1"> <caption>Data for bar test #3</caption> <thead> <tr> <th>Category</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Start</td> <td>10</td> </tr> <tr> <td>FY03-Q1</td> <td>40</td> </tr> <tr> <td>FY03-Q2</td> <td>5</td> </tr> <tr> <td>FY03-Q3</td> <td>50</td> </tr> <tr> <td>FY03-Q4</td> <td>60</td> </tr> <tr> <td>FY04-Q1</td> <td>55</td> </tr> </tbody> </table>	Category	Value	Start	10	FY03-Q1	40	FY03-Q2	5	FY03-Q3	50	FY03-Q4	60	FY04-Q1	55
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FY03-Q1	40														
FY03-Q2	5														
FY03-Q3	50														
FY03-Q4	60														
FY04-Q1	55														
<p>Add Y axis to above</p> <pre>%CHART{data="R2:C7..R7:C7" name="bar_4" table="table1" title="bar test #4" type="bar" xaxis="R2:C2..R7:C2" yaxis="on"}%</pre>	<p><b>bar test #4</b></p>  <table border="1"> <caption>Data for bar test #4</caption> <thead> <tr> <th>Category</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Start</td> <td>10</td> </tr> <tr> <td>FY03-Q1</td> <td>40</td> </tr> <tr> <td>FY03-Q2</td> <td>5</td> </tr> <tr> <td>FY03-Q3</td> <td>50</td> </tr> <tr> <td>FY03-Q4</td> <td>60</td> </tr> <tr> <td>FY04-Q1</td> <td>55</td> </tr> </tbody> </table>	Category	Value	Start	10	FY03-Q1	40	FY03-Q2	5	FY03-Q3	50	FY03-Q4	60	FY04-Q1	55
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<p>Add ymin = 0 to above</p> <pre>%CHART{data="R2:C7..R7:C7" name="bar_5" table="table1" title="bar test #5" type="bar" xaxis="R2:C2..R7:C2" yaxis="on" ymin="0"}%</pre>	<p><b>bar test #5</b></p>  <table border="1"> <caption>Data for bar test #5</caption> <thead> <tr> <th>Category</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Start</td> <td>10</td> </tr> <tr> <td>FY03-Q1</td> <td>40</td> </tr> <tr> <td>FY03-Q2</td> <td>5</td> </tr> <tr> <td>FY03-Q3</td> <td>50</td> </tr> <tr> <td>FY03-Q4</td> <td>60</td> </tr> <tr> <td>FY04-Q1</td> <td>55</td> </tr> </tbody> </table>	Category	Value	Start	10	FY03-Q1	40	FY03-Q2	5	FY03-Q3	50	FY03-Q4	60	FY04-Q1	55
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FY03-Q3	50														
FY03-Q4	60														
FY04-Q1	55														
<p>Add ymax = 100 to above</p> <pre>%CHART{data="R2:C7..R7:C7" name="bar_6" table="table1" title="bar test #6" type="bar" xaxis="R2:C2..R7:C2" yaxis="on" ymax="100" ymin="0"}%</pre>	<p><b>bar test #6</b></p>  <table border="1"> <caption>Data for bar test #6</caption> <thead> <tr> <th>Category</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Start</td> <td>10</td> </tr> <tr> <td>FY03-Q1</td> <td>40</td> </tr> <tr> <td>FY03-Q2</td> <td>5</td> </tr> <tr> <td>FY03-Q3</td> <td>50</td> </tr> <tr> <td>FY03-Q4</td> <td>60</td> </tr> <tr> <td>FY04-Q1</td> <td>55</td> </tr> </tbody> </table>	Category	Value	Start	10	FY03-Q1	40	FY03-Q2	5	FY03-Q3	50	FY03-Q4	60	FY04-Q1	55
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FY03-Q4	60														
FY04-Q1	55														
<p>Add ylabel "Hello there" to above</p> <pre>%CHART{data="R2:C7..R7:C7" name="bar_7" table="table1" title="bar test #7" type="bar" xaxis="R2:C2..R7:C2" yaxis="on" ylabel="Hello there" ymax="100" ymin="0"}%</pre>	<p><b>bar test #7</b></p>  <table border="1"> <caption>Data for bar test #7</caption> <thead> <tr> <th>Category</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Start</td> <td>10</td> </tr> <tr> <td>FY03-Q1</td> <td>40</td> </tr> <tr> <td>FY03-Q2</td> <td>5</td> </tr> <tr> <td>FY03-Q3</td> <td>50</td> </tr> <tr> <td>FY03-Q4</td> <td>60</td> </tr> <tr> <td>FY04-Q1</td> <td>55</td> </tr> </tbody> </table>	Category	Value	Start	10	FY03-Q1	40	FY03-Q2	5	FY03-Q3	50	FY03-Q4	60	FY04-Q1	55
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<p>Add numygrids="5" above</p> <pre>%CHART{data="R2:C7..R7:C7" name="bar_8" numygrids="5" table="table1" title="bar test #8" type="bar" xaxis="R2:C2..R7:C2" yaxis="on" ylabel="Hello there" ymax="100" ymin="0"}%</pre>	<p>bar test #8</p>  <table border="1"> <thead> <tr> <th>Category</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Start</td> <td>40</td> </tr> <tr> <td>FY03-Q1</td> <td>55</td> </tr> <tr> <td>FY03-Q2</td> <td>36</td> </tr> <tr> <td>FY03-Q3</td> <td>62</td> </tr> <tr> <td>FY03-Q4</td> <td>72</td> </tr> <tr> <td>FY04-Q1</td> <td>68</td> </tr> </tbody> </table>	Category	Value	Start	40	FY03-Q1	55	FY03-Q2	36	FY03-Q3	62	FY03-Q4	72	FY04-Q1	68
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<p>Change numygrids="2" above</p> <pre>%CHART{data="R2:C7..R7:C7" name="bar_9" numygrids="2" table="table1" title="bar test #9" type="bar" xaxis="R2:C2..R7:C2" yaxis="on" ylabel="Hello there" ymax="100" ymin="0"}%</pre>	<p>bar test #9</p>  <table border="1"> <thead> <tr> <th>Category</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Start</td> <td>40</td> </tr> <tr> <td>FY03-Q1</td> <td>55</td> </tr> <tr> <td>FY03-Q2</td> <td>36</td> </tr> <tr> <td>FY03-Q3</td> <td>62</td> </tr> <tr> <td>FY03-Q4</td> <td>72</td> </tr> <tr> <td>FY04-Q1</td> <td>68</td> </tr> </tbody> </table>	Category	Value	Start	40	FY03-Q1	55	FY03-Q2	36	FY03-Q3	62	FY03-Q4	72	FY04-Q1	68
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<p>Remove numygrids from above and add xlabel "Yep, an X title" to above</p> <pre>%CHART{data="R2:C7..R7:C7" name="bar_10" table="table1" title="bar test #10" type="bar" xaxis="R2:C2..R7:C2" xlabel="Yep, an X title" yaxis="on" ylabel="Hello there" ymax="100" ymin="0"}%</pre>	<p>bar test #10</p>  <table border="1"> <thead> <tr> <th>Category</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Start</td> <td>40</td> </tr> <tr> <td>FY03-Q1</td> <td>55</td> </tr> <tr> <td>FY03-Q2</td> <td>36</td> </tr> <tr> <td>FY03-Q3</td> <td>62</td> </tr> <tr> <td>FY03-Q4</td> <td>72</td> </tr> <tr> <td>FY04-Q1</td> <td>68</td> </tr> </tbody> </table>	Category	Value	Start	40	FY03-Q1	55	FY03-Q2	36	FY03-Q3	62	FY03-Q4	72	FY04-Q1	68
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<p>Add datalabel = on to above</p> <pre>%CHART{data="R2:C7..R7:C7" datalabel="on" name="bar_11" table="table1" title="bar test #11" type="bar" xaxis="R2:C2..R7:C2" xlabel="Yep, an X title" yaxis="on" ylabel="Hello there" ymax="100" ymin="0"}%</pre>	<p>bar test #11</p>  <table border="1"> <thead> <tr> <th>Category</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Start</td> <td>39</td> </tr> <tr> <td>FY03-Q1</td> <td>55</td> </tr> <tr> <td>FY03-Q2</td> <td>36</td> </tr> <tr> <td>FY03-Q3</td> <td>62</td> </tr> <tr> <td>FY03-Q4</td> <td>72</td> </tr> <tr> <td>FY04-Q1</td> <td>68</td> </tr> </tbody> </table>	Category	Value	Start	39	FY03-Q1	55	FY03-Q2	36	FY03-Q3	62	FY03-Q4	72	FY04-Q1	68
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<p>Add datalabel = box to above</p> <pre>%CHART{data="R2:C7..R7:C7" datalabel="box" name="bar_12" table="table1" title="bar test #12" type="bar" xaxis="R2:C2..R7:C2" xlabel="Yep, an X title" yaxis="on" ylabel="Hello there" ymax="100" ymin="0"}%</pre>	<p>bar test #12</p>  <table border="1"> <thead> <tr> <th>Category</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Start</td> <td>39</td> </tr> <tr> <td>FY03-Q1</td> <td>55</td> </tr> <tr> <td>FY03-Q2</td> <td>36</td> </tr> <tr> <td>FY03-Q3</td> <td>62</td> </tr> <tr> <td>FY03-Q4</td> <td>72</td> </tr> <tr> <td>FY04-Q1</td> <td>68</td> </tr> </tbody> </table>	Category	Value	Start	39	FY03-Q1	55	FY03-Q2	36	FY03-Q3	62	FY03-Q4	72	FY04-Q1	68
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Add legend to above

```
%CHART{data="R2:C7..R7:C7" datalabel="box"
legend="R1:C7..R1:C7" name="bar_13"
table="table1" title="bar test #13" type="bar"
xaxis="R2:C2..R7:C2" xlabel="Yep, an X title"
yaxis="on" ylabel="Hello there" ymax="100"
ymin="0"}%
```



Add additional data bars to above and update legend

```
%CHART{data="R2:C4..R7:C7" datalabel="box"
legend="R1:C4..R1:C7" name="bar_14"
table="table1" title="bar test #14" type="bar"
xaxis="R2:C2..R7:C2" xlabel="Yep, an X title"
yaxis="on" ylabel="Hello there" ymax="100"
ymin="0"}%
```



Specify different colors to above. Now are lite red, lite green, lite blue, gray instead of defaults

```
%CHART{colors="#ffAAAA,#AAffAA,#AAAAff,#AAAAAA"
data="R2:C4..R7:C7" datalabel="box"
legend="R1:C4..R1:C7" name="bar_15"
table="table1" title="bar test #15" type="bar"
xaxis="R2:C2..R7:C2" xlabel="Yep, an X title"
yaxis="on" ylabel="Hello there" ymax="100"
ymin="0"}%
```



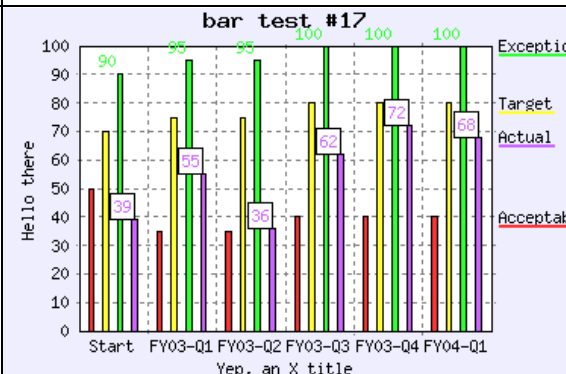
Restore default colors and change datalabel such that only the last bar has values in boxes and the 2nd to last has values (no box) to above

```
%CHART{data="R2:C4..R7:C7" datalabel="off off
on box" legend="R1:C4..R1:C7" name="bar_16"
table="table1" title="bar test #16" type="bar"
xaxis="R2:C2..R7:C2" xlabel="Yep, an X title"
yaxis="on" ylabel="Hello there" ymax="100"
ymin="0"}%
```



Same as above except specify bgcolor="#EEEEFF"

```
=%CHART{bgcolor="#EEEEFF" data="R2:C4..R7:C7"
datalabel="off off on box" legend="R1:C4..R1:C7" name="bar_17"
table="table1" title="bar test #17" type="bar" xaxis="R2:C2..R7:C2"
xlabel="Yep, an X title" yaxis="on" ylabel="Hello there"
ymax="100" ymin="0"}%
```



```
Change bgcolor="#FFFFFF #EEEEEE"

=%CHART{bgcolor="#FFFFFF #EEEEFF" data="R2:C4..R7:C7"
datalabel="off off on box" legend="R1:C4..R1:C7" name="bar_18"
table="table1" title="bar test #18" type="bar" xaxis="R2:C2..R7:C2"
xlabel="Yep, an X title" yaxis="on" ylabel="Hello there"
ymax="100" ymin="0"}%
```



```
Change bgcolor="#EEEEEE #EEFFEE"

=%CHART{bgcolor="#EEEEEE #EEFFFF" data="R2:C4..R7:C7"
datalabel="off off on box" legend="R1:C4..R1:C7" name="bar_19"
table="table1" title="bar test #19" type="bar" xaxis="R2:C2..R7:C2"
xlabel="Yep, an X title" yaxis="on" ylabel="Hello there"
ymax="100" ymin="0"}%
```



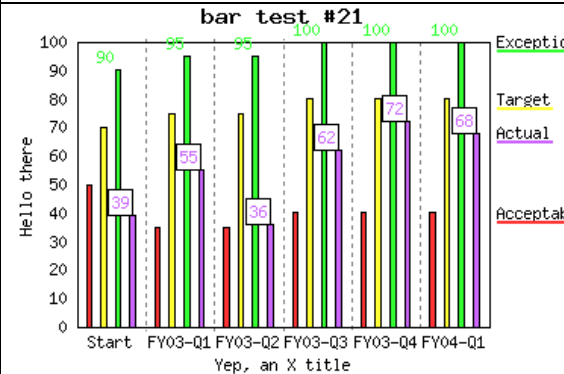
```
Restore bgcolor and change ygrid = on to above

%CHART{data="R2:C4..R7:C7" datalabel="off off
on box" legend="R1:C4..R1:C7" name="bar_20"
table="table1" title="bar test #20" type="bar"
xaxis="R2:C2..R7:C2" xlabel="Yep, an X title"
yaxis="on" ygrid="on" ylabel="Hello there"
ymax="100" ymin="0"}%
```



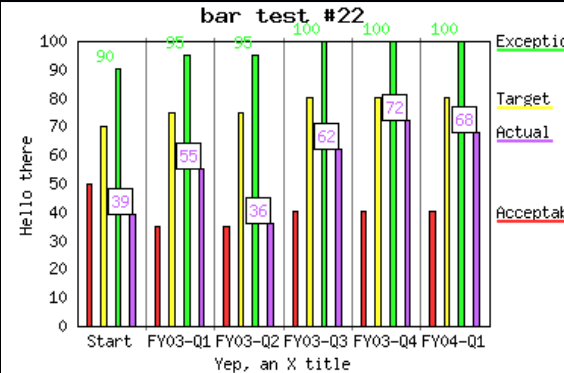
```
Change ygrid = off to above

%CHART{data="R2:C4..R7:C7" datalabel="off off
on box" legend="R1:C4..R1:C7" name="bar_21"
table="table1" title="bar test #21" type="bar"
xaxis="R2:C2..R7:C2" xlabel="Yep, an X title"
yaxis="on" ygrid="off" ylabel="Hello there"
ymax="100" ymin="0"}%
```



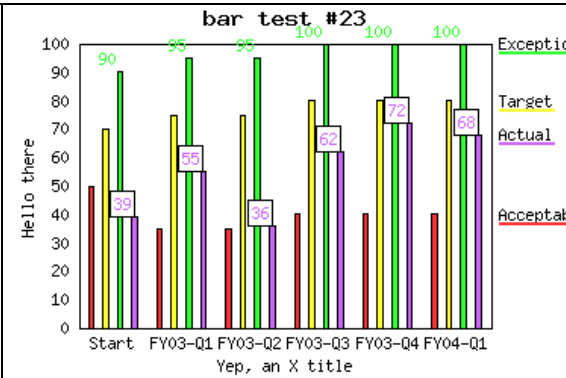
```
Change xgrid = on to above

%CHART{data="R2:C4..R7:C7" datalabel="off off
on box" legend="R1:C4..R1:C7" name="bar_22"
table="table1" title="bar test #22" type="bar"
xaxis="R2:C2..R7:C2" xgrid="on" xlabel="Yep, an
X title" yaxis="on" ygrid="off" ylabel="Hello
there" ymax="100" ymin="0"}%
```



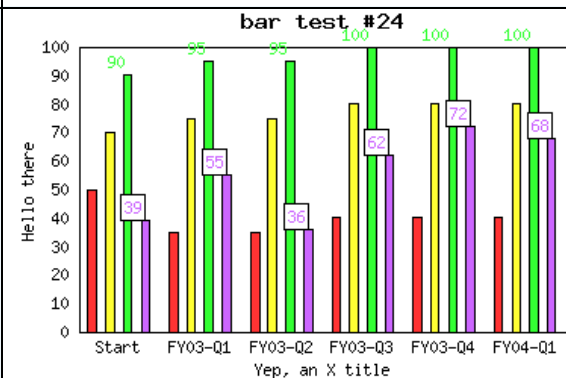
Change xgrid = off to above

```
%CHART{data="R2:C4..R7:C7" datalabel="off off
on box" legend="R1:C4..R1:C7" name="bar_23"
table="table1" title="bar test #23" type="bar"
xaxis="R2:C2..R7:C2" xgrid="off" xlabel="Yep,
an X title" yaxis="on" ygrid="off"
ylabel="Hello there" ymax="100" ymin="0"}%
```



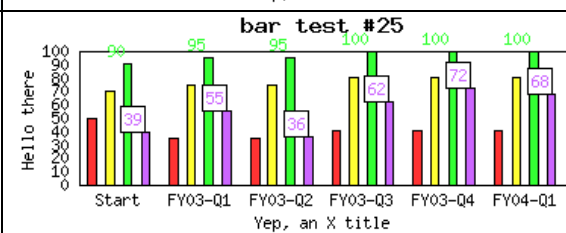
Change width = 450

```
%CHART{data="R2:C4..R7:C7" datalabel="off off
on box" legend="R1:C4..R1:C7" name="bar_24"
table="table1" title="bar test #24" type="bar"
width="450" xaxis="R2:C2..R7:C2" xgrid="off"
xlabel="Yep, an X title" yaxis="on"
ygrid="off" ylabel="Hello there" ymax="100"
ymin="0"}%
```



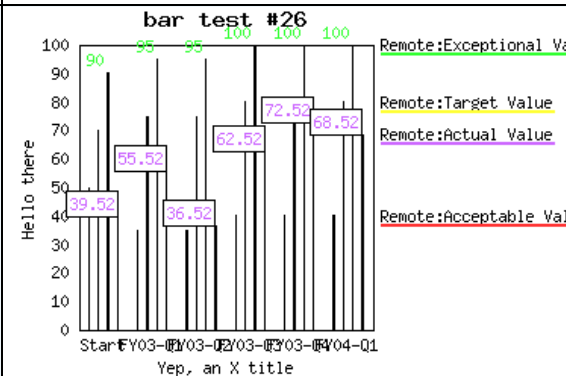
Change height = 150

```
%CHART{data="R2:C4..R7:C7" datalabel="off off
on box" height="150" legend="R1:C4..R1:C7"
name="bar_25" table="table1" title="bar test
#25" type="bar" width="450"
xaxis="R2:C2..R7:C2" xgrid="off" xlabel="Yep,
an X title" yaxis="on" ygrid="off"
ylabel="Hello there" ymax="100" ymin="0"}%
```



Default width/height. Get data from ChartPluginTestsRemote. Specify table="2" on new topic = ChartPluginTestsRemote. Actual values should show up incremented by 0.52 since data is from a different topic page and the 0.02 denotes the data is from the 2nd table. Legend should show up with Remote since the data on the remote page was set up to include Remote in the legends

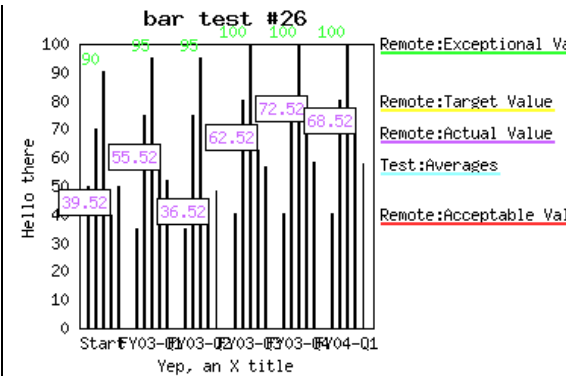
```
%CHART{data="R4:C2..R7:C7" datalabel="off off
on box" legend="R4:C1..R7:C1" name="bar_26"
table="2" title="bar test #26"
topic="ChartPluginTestsRemote" type="bar"
xaxis="R2:C2..R2:C7" xgrid="off" xlabel="Yep,
an X title" yaxis="on" ygrid="off"
ylabel="Hello there" ymax="100" ymin="0"}%
```



Same as above except add an additional data set (**averages**) that is calculated by %CALC%. Also shows that since only 4 default bar colors are specified, the 5th bar reuses the 1st default bar color.

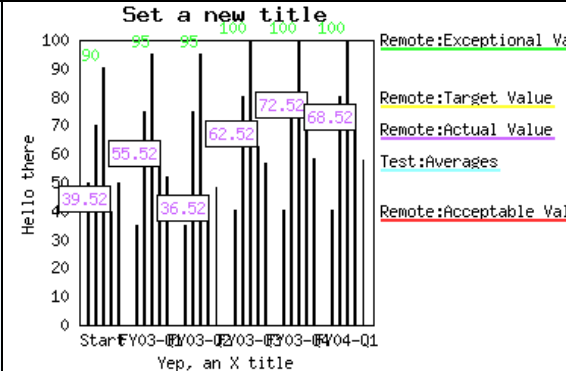
```
%CHART{data="R4:C2..R8:C7" datalabel="off off
on box" legend="R4:C1..R8:C1" name="bar_27"
table="2" title="bar test #26"
topic="ChartPluginTestsRemote" type="bar"
xaxis="R2:C2..R2:C7" xgrid="off" xlabel="Yep,
```

```
an X title" yaxis="on" ygrid="off"
ylabel="Hello there" ymax="100" ymin="0"}%
```



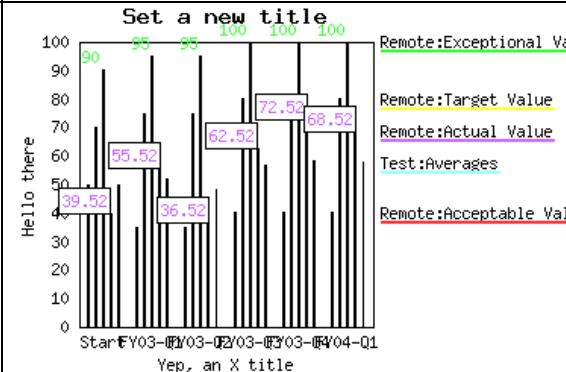
Set title = "Set a new title" to above

```
%CHART{data="R4:C2..R8:C7" datalabel="off off
on box" legend="R4:C1..R8:C1" name="bar_28"
table="2" title="Set a new title"
topic="ChartPluginTestsRemote" type="bar"
xaxis="R2:C2..R2:C7" xgrid="off" xlabel="Yep,
an X title" yaxis="on" ygrid="off"
ylabel="Hello there" ymax="100" ymin="0"}%
```



Same as above except add the alt tag = This is the alt tag

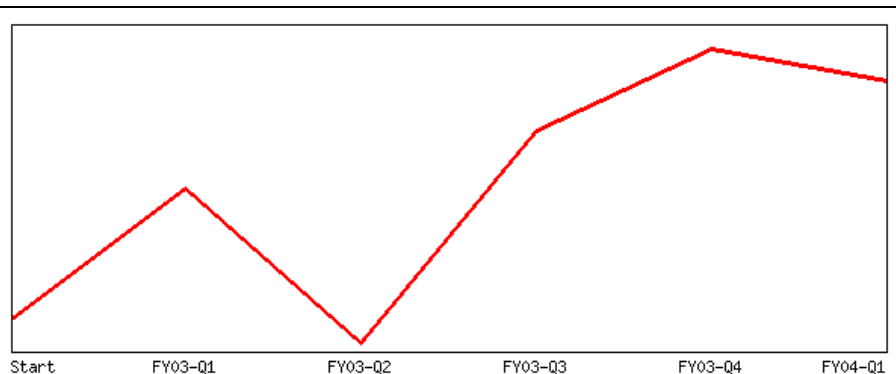
```
%CHART{alt="This is the alt tag"
data="R4:C2..R8:C7" datalabel="off off on box"
legend="R4:C1..R8:C1" name="bar_29" table="2"
title="Set a new title"
topic="ChartPluginTestsRemote" type="bar"
xaxis="R2:C2..R2:C7" xgrid="off" xlabel="Yep,
an X title" yaxis="on" ygrid="off"
ylabel="Hello there" ymax="100" ymin="0"}%
```



## combo tests

Simple combo graph using table #2. Since no datatype is defined and only a single data set, combo defaults to a single line.

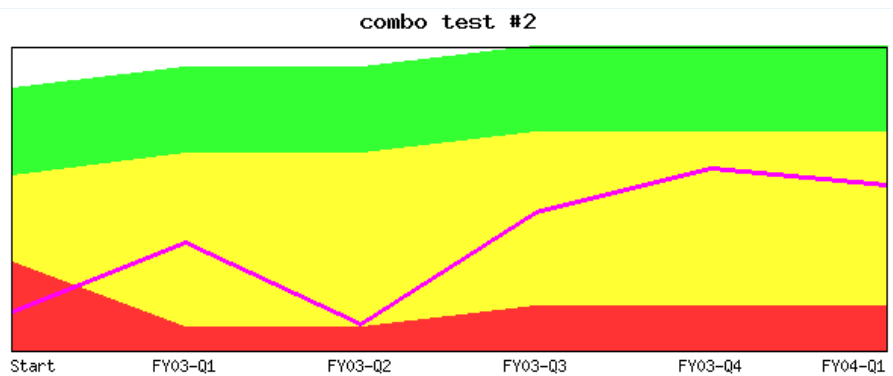
```
%CHART{data="R7:C2..R7:C7"
name="combo_1"
table="table2"
type="combo" width="600"
xaxis="R2:C2..R2:C7"
xgrid="off" ygrid="off"}%
```



Change so 3 data sets are drawn as areas and the last drawn as a line

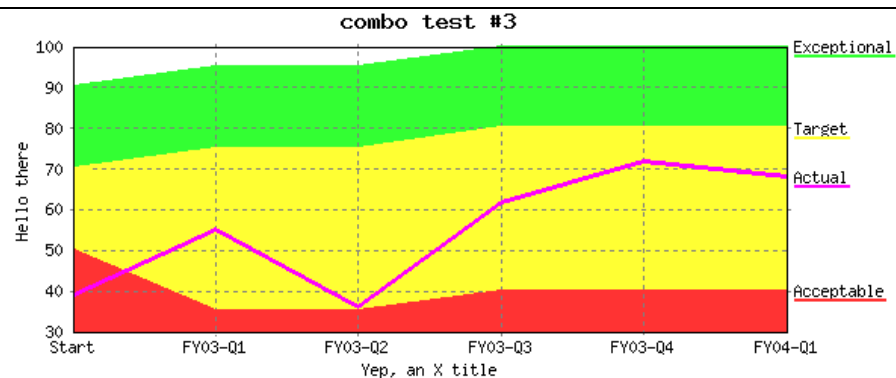
```
%CHART{data="R4:C2..R7:C7"
name="combo_2"
table="table2"
title="combo test #2"
type="combo" width="600"
xaxis="R2:C2..R2:C7"
xgrid="off" ygrid="off"}%
```

```
xaxis="R2:C2..R2:C7"
xgrid="off" ygrid="off"}%
```



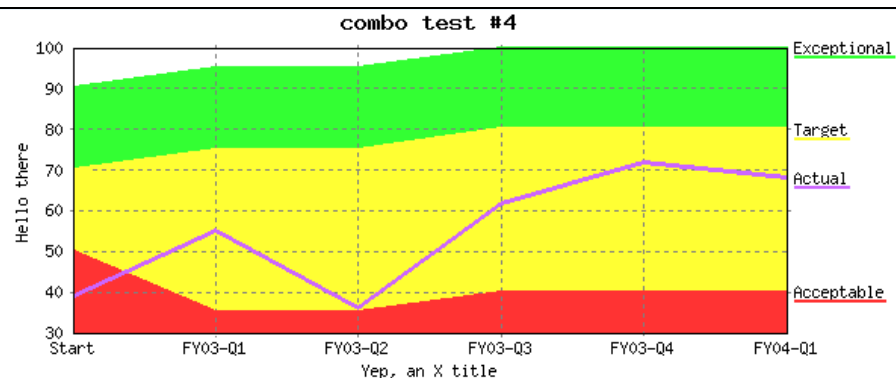
Same as above, adding grid lines and both X and Y axis labels and titles

```
%CHART{data="R4:C2..R7:C7"
legend="R4:C1..R7:C1"
name="combo_3"
table="table2"
title="combo test #3"
type="combo" width="600"
xaxis="R2:C2..R2:C7"
xlabel="Yep, an X title"
yaxis="on" ylabel="Hello there"}%
```



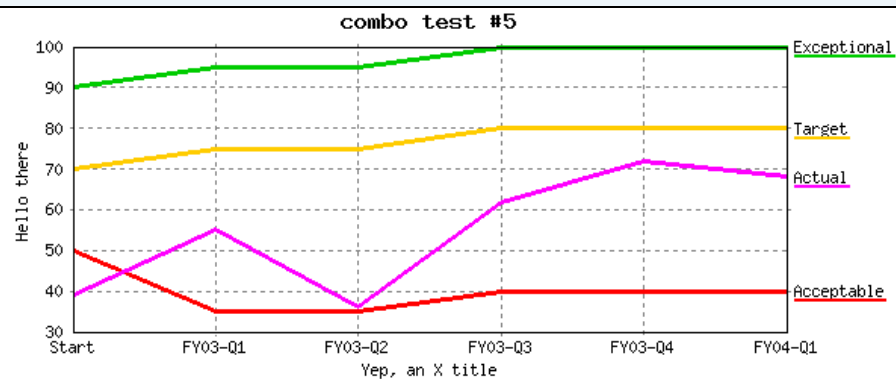
Same as above adding subtype="area" which should force all data sets to be drawn as area. Since the last data set would fall behind the previously drawn areas, it is drawn as a line

```
%CHART{data="R4:C2..R7:C7"
legend="R4:C1..R7:C1"
name="combo_4"
subtype="area"
table="table2"
title="combo test #4"
type="combo" width="600"
xaxis="R2:C2..R2:C7"
xlabel="Yep, an X title"
yaxis="on" ylabel="Hello there"}%
```



Same as above changing subtype="line" which should force all data sets to be drawn as line

```
%CHART{data="R4:C2..R7:C7"
legend="R4:C1..R7:C1"
name="combo_5"
subtype="line"
table="table2"
title="combo test #5"
type="combo" width="600"
xaxis="R2:C2..R2:C7"
xlabel="Yep, an X title"
yaxis="on" ylabel="Hello there"}%
```

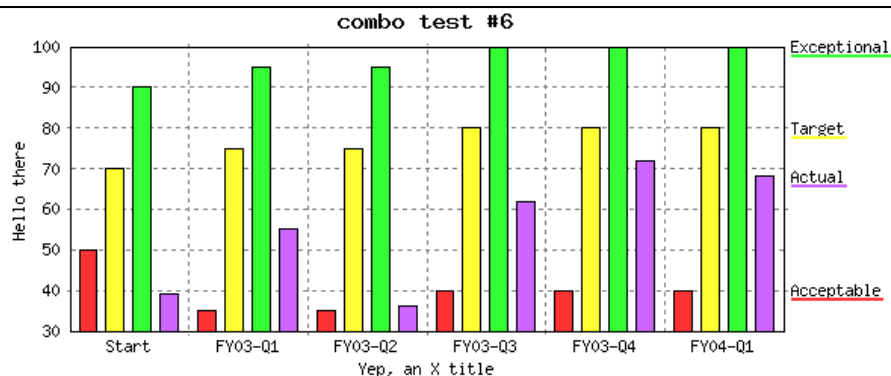




```
xaxis="R2:C2..R2:C7"
xlabel="Yep, an X title"
yaxis="on" ylabel="Hello
there"}%
```

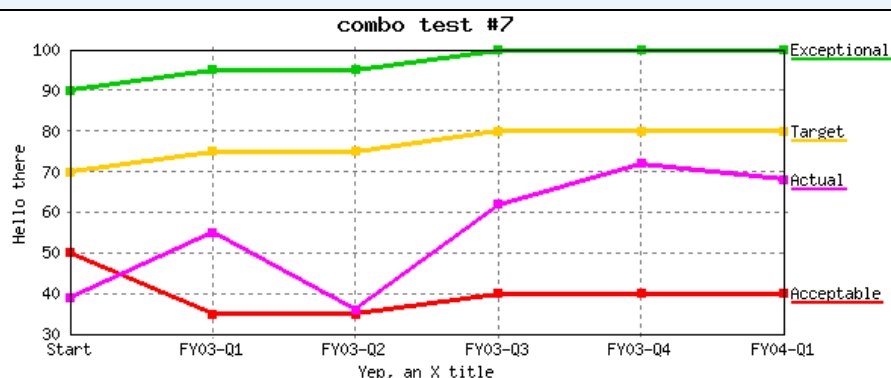
Same as above changing  
subtype="bar" which should  
force all data sets to be drawn as bar

```
%CHART{data="R4:C2..R7:C7"
legend="R4:C1..R7:C1"
name="combo_6"
subtype="bar"
table="table2"
title="combo test #6"
type="combo" width="600"
xaxis="R2:C2..R2:C7"
xlabel="Yep, an X title"
yaxis="on" ylabel="Hello
there"}%
```



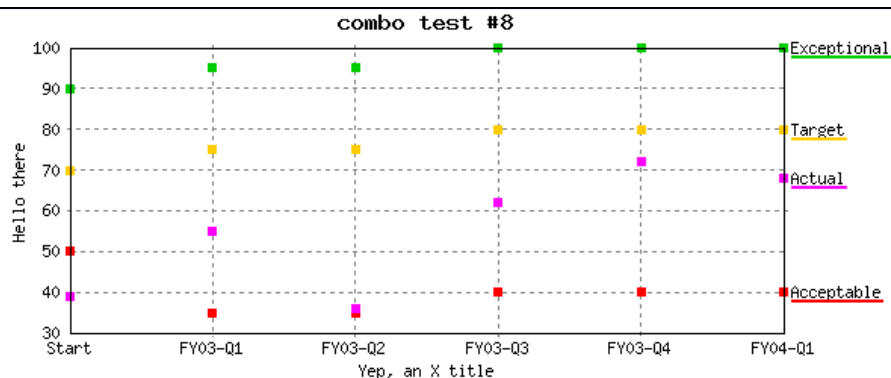
Same as above changing  
subtype="pline" which should  
force all data sets to be drawn as  
pline

```
%CHART{data="R4:C2..R7:C7"
legend="R4:C1..R7:C1"
name="combo_7"
subtype="pline"
table="table2"
title="combo test #7"
type="combo" width="600"
xaxis="R2:C2..R2:C7"
xlabel="Yep, an X title"
yaxis="on" ylabel="Hello
there"}%
```



Same as above changing  
subtype="point" which should  
force all data sets to be drawn as  
point

```
%CHART{data="R4:C2..R7:C7"
legend="R4:C1..R7:C1"
name="combo_8"
subtype="point"
table="table2"
title="combo test #8"
type="combo" width="600"
xaxis="R2:C2..R2:C7"
xlabel="Yep, an X title"
yaxis="on" ylabel="Hello
there"}%
```





<p>Same as above changing subtype="area line pline point"</p> <pre>%CHART{data="R4:C2..R7:C7" legend="R4:C1..R7:C1" name="combo_9" subtype="area line pline point" table="table2" title="combo test #9" type="combo" width="600" xaxis="R2:C2..R2:C7" xlabel="Yep, an X title" yaxis="on" ylabel="Hello there"}%</pre>	
<p>Same as above changing subtype="line pline point area"</p> <pre>%CHART{data="R4:C2..R7:C7" legend="R4:C1..R7:C1" name="combo_10" subtype="line pline point area" table="table2" title="combo test #10" type="combo" width="600" xaxis="R2:C2..R2:C7" xlabel="Yep, an X title" yaxis="on" ylabel="Hello there"}%</pre>	
<p>Same as above changing subtype="pline pline point bar"</p> <pre>%CHART{data="R4:C2..R7:C7" legend="R4:C1..R7:C1" name="combo_11" subtype="pline pline point bar" table="table2" title="combo test #11" type="combo" width="600" xaxis="R2:C2..R2:C7" xlabel="Yep, an X title" yaxis="on" ylabel="Hello there"}%</pre>	
<p>Same as above changing subtype="area pline point bar". This should produce an error as you can't combine area and bar subtypes</p> <pre>%CHART{data="R4:C2..R7:C7" legend="R4:C1..R7:C1" name="combo_12" subtype="area pline point bar" table="table2" title="combo test #12" type="combo" width="600" xaxis="R2:C2..R2:C7" xlabel="Yep, an X title" yaxis="on" ylabel="Hello there"}%</pre>	<p>ChartPlugin error: chart error: name=combo_12: Error: Can't mix 'area' and 'bar' subtypes on the same chart</p>

```

subtype="area pline point
bar" table="table2"
title="combo test #12"
type="combo" width="600"
xaxis="R2:C2..R2:C7"
xlabel="Yep, an X title"
yaxis="on" ylabel="Hello
there"}%

```

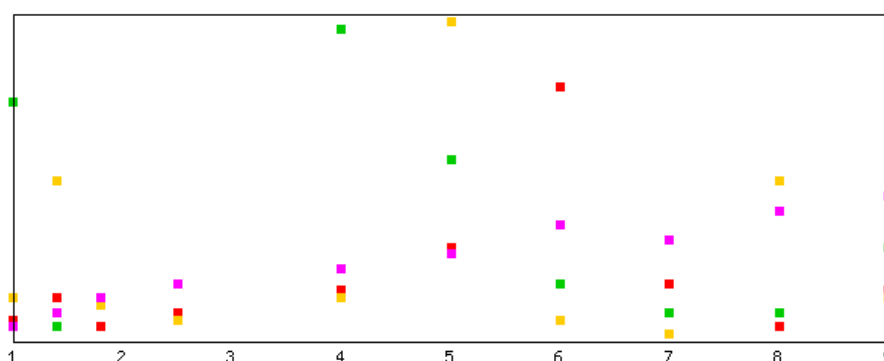
## scatter tests

Simple scatter graph using table #3.  
Defaults to all data sets drawn as point

```

%CHART{data="R2:C2..R99:C99"
name="scatter_1"
table="table3"
type="scatter" width="600"
xaxis="R2:C1..R99:C1"
xgrid="off" ygrid="off"}%

```

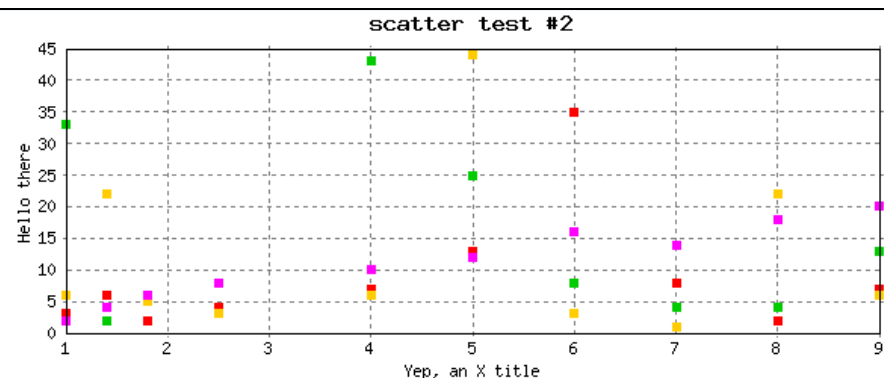


Same as above, adding title, grid lines  
and both X and Y axis labels and titles

```

%CHART{data="R2:C2..R99:C99"
legend="R1:C2..R1:C99"
name="scatter_2"
table="table3"
title="scatter test #2"
type="scatter" width="600"
xaxis="R2:C1..R99:C1"
xlabel="Yep, an X title"
yaxis="on" ylabel="Hello
there"}%

```

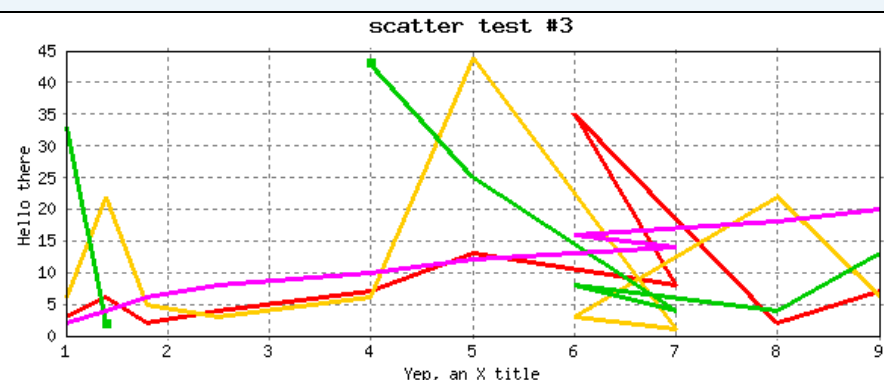


Same as above adding  
subtype="line"

```

%CHART{data="R2:C2..R99:C99"
legend="R1:C2..R1:C99"
name="scatter_3"
subtype="line"
table="table3"
title="scatter test #3"
type="scatter" width="600"
xaxis="R2:C1..R99:C1"
xlabel="Yep, an X title"
yaxis="on" ylabel="Hello
there"}%

```



Same as above changing  
subtype="pline"

```
%CHART{data="R2:C2..R99:C99"
legend="R1:C2..R1:C99"
name="scatter_4"
subtype="pline"
table="table3"
title="scatter test #4"
type="scatter" width="600"
xaxis="R2:C1..R99:C1"
xlabel="Yep, an X title"
yaxis="on" ylabel="Hello
there"}%
```



Same as above changing  
subtype="point"

```
%CHART{data="R2:C2..R99:C99"
legend="R1:C2..R1:C99"
name="scatter_5"
subtype="point"
table="table3"
title="scatter test #5"
type="scatter" width="600"
xaxis="R2:C1..R99:C1"
xlabel="Yep, an X title"
yaxis="on" ylabel="Hello
there"}%
```



Same as above changing  
subtype="bar"

```
%CHART{data="R2:C2..R99:C99"
legend="R1:C2..R1:C99"
name="scatter_6"
subtype="bar" table="table3"
title="scatter test #6"
type="scatter" width="600"
xaxis="R2:C1..R99:C1"
xlabel="Yep, an X title"
yaxis="on" ylabel="Hello
there"}%
```



Same as above changing  
subtype="point bar line  
pline"

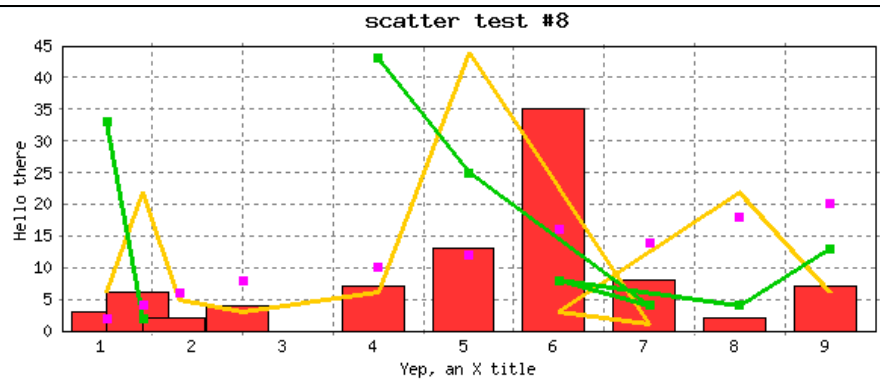
```
%CHART{data="R2:C2..R99:C99"
legend="R1:C2..R1:C99"
name="scatter_7"
subtype="point bar line
pline" table="table3"
title="scatter test #7"
type="scatter" width="600"
xaxis="R2:C1..R99:C1"
xlabel="Yep, an X title"
yaxis="on" ylabel="Hello
there"}%
```



```
yaxis="on" ylabel="Hello there"}%
```

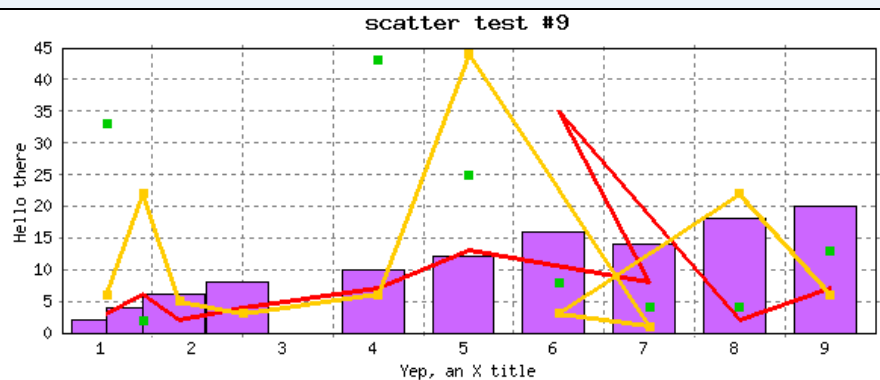
Same as above changing  
subtype="bar line pline point"

```
%CHART{data="R2:C2..R99:C99"
legend="R1:C2..R1:C99"
name="scatter_8"
subtype="bar line pline point" table="table3"
title="scatter test #8"
type="scatter" width="600"
xaxis="R2:C1..R99:C1"
xlabel="Yep, an X title"
yaxis="on" ylabel="Hello there"}%
```



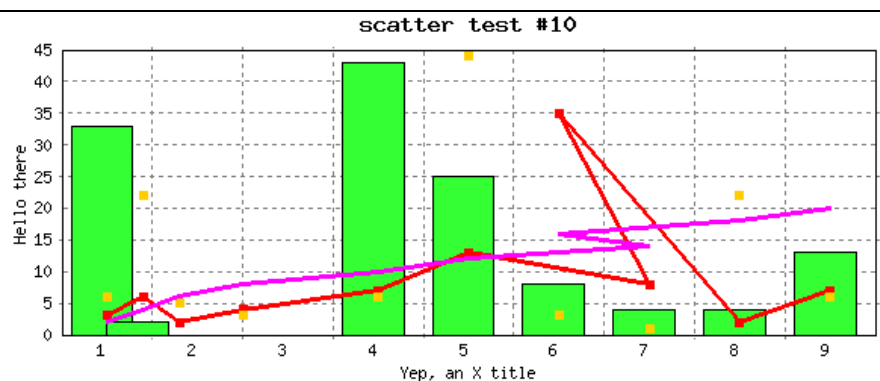
Same as above changing  
subtype="line pline point bar"

```
%CHART{data="R2:C2..R99:C99"
legend="R1:C2..R1:C99"
name="scatter_9"
subtype="line pline point bar" table="table3"
title="scatter test #9"
type="scatter" width="600"
xaxis="R2:C1..R99:C1"
xlabel="Yep, an X title"
yaxis="on" ylabel="Hello there"}%
```



Same as above changing  
subtype="pline point bar line"

```
%CHART{data="R2:C2..R99:C99"
legend="R1:C2..R1:C99"
name="scatter_10"
subtype="pline point bar line" table="table3"
title="scatter test #10"
type="scatter" width="600"
xaxis="R2:C1..R99:C1"
xlabel="Yep, an X title"
yaxis="on" ylabel="Hello there"}%
```



Same as above changing  
 subtype="bar bar bar pline"  
 %CHART{data="R2:C2..R99:C99"  
 legend="R1:C2..R1:C99"  
 name="scatter\_11"  
 subtype="bar bar bar pline"  
 table="table3"  
 title="scatter test #11"  
 type="scatter" width="600"  
 xaxis="R2:C1..R99:C1"  
 xlabel="Yep, an X title"  
 yaxis="on" ylabel="Hello  
 there"}%



Same as above changing  
 subtype="area pline point  
 bar". This should produce an error as  
 you can't combine area and bar  
 subtypes

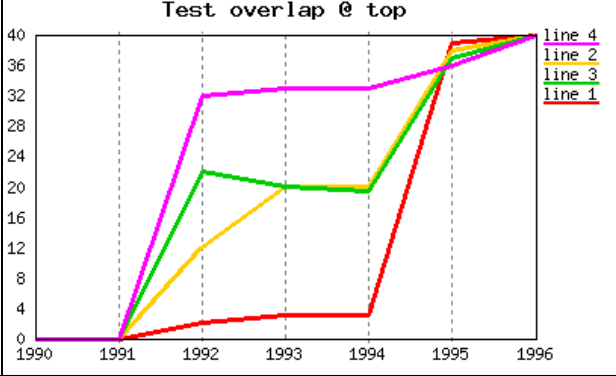
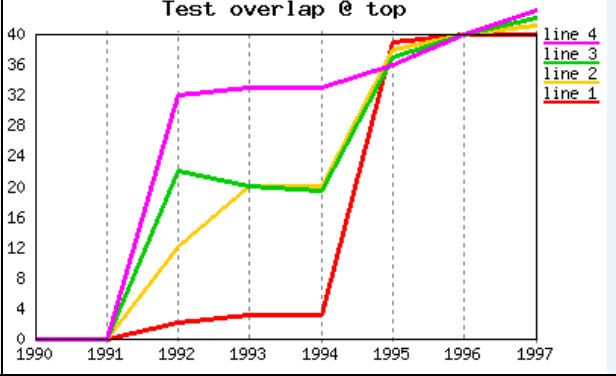
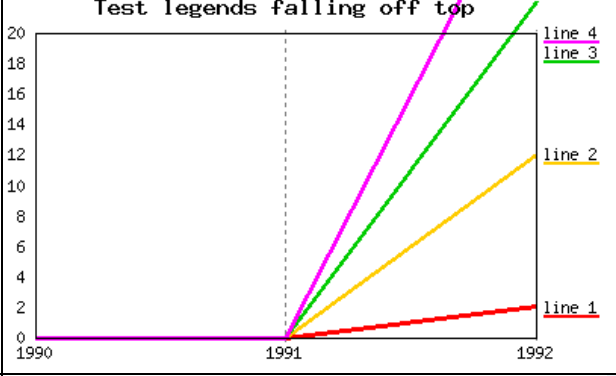
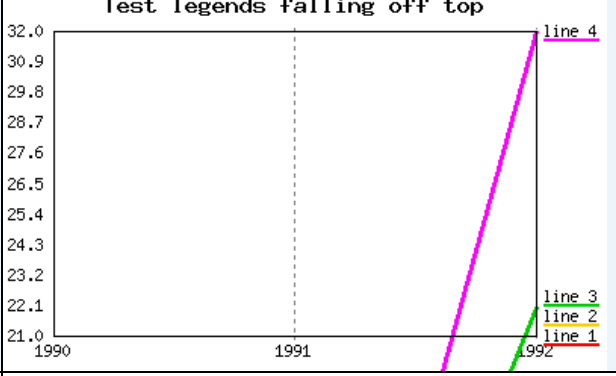
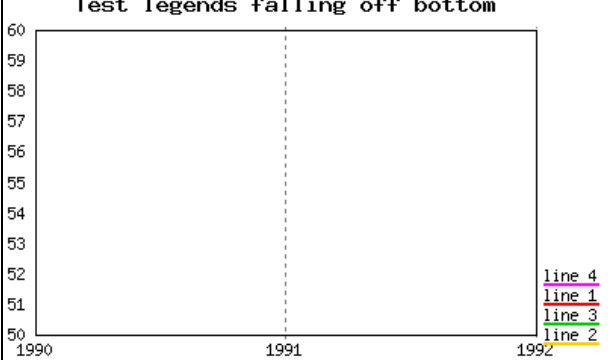
%CHART{data="R2:C2..R99:C99"  
 legend="R1:C2..R1:C99"  
 name="scatter\_12"  
 subtype="area pline point  
 bar" table="table3"  
 title="scatter test #12"  
 type="scatter" width="600"  
 xaxis="R2:C1..R99:C1"  
 xlabel="Yep, an X title"  
 yaxis="on" ylabel="Hello  
 there"}%

ChartPlugin error: chart error: name=scatter\_12: Error: Can't mix 'area' and  
 'bar' subtypes on the same chart

# New functionality tests

## Test various legend placement situations

<p>Test that when all lines overlap on the very bottom of the chart, the legends all show up non-overlapped</p> <pre>%CHART{data="R2:C2..R3:C5" legend="R1:C2..R1:C5" name="line_30" table="table4" title="Test overlap @ bottom" type="line" xaxis="R2:C1..R9:C1" yaxis="on" ygrid="off" ymax="1" ymin="0"}%</pre>	<p>Test overlap @ bottom</p>
<p>Test that when two lines overlap in the middle of the chart, the legends get correctly placed</p> <pre>%CHART{data="R2:C2..R5:C5" legend="R1:C2..R1:C5" name="line_31" table="table4" title="Test overlap @ middle" type="line" xaxis="R2:C1..R9:C1" yaxis="on" ygrid="off"}%</pre>	<p>Test overlap @ middle</p>
<p>Similar to the test above, except the data is changed such that the placement of the legends for the two middle lines should be reversed</p> <pre>%CHART{data="R2:C2..R6:C5" legend="R1:C2..R1:C5" name="line_32" table="table4" title="Test overlap @ middle" type="line" xaxis="R2:C1..R9:C1" yaxis="on" ygrid="off"}%</pre>	<p>Test overlap @ middle</p>
<p>Test that when 4 lines are close to overlapping and are all located at the top of the chart, the legends get correctly placed.</p> <pre>%CHART{data="R2:C2..R7:C5" legend="R1:C2..R1:C5" name="line_33" table="table4" title="Test overlap @ top" type="line" xaxis="R2:C1..R9:C1" yaxis="on" ygrid="off" ymax="40"}%</pre>	<p>Test overlap @ top</p>

<p>Test that when 4 lines do exactly overlap at the top of the chart, the legends get correctly placed.</p> <pre>%CHART{data="R2:C2..R8:C5" legend="R1:C2..R1:C5" name="line_34" table="table4" title="Test overlap @ top" type="line" xaxis="R2:C1..R9:C1" yaxis="on" ygrid="off" ymax="40"}%</pre>	
<p>Test that the arrangement of legends of 4 lines located at the top of a chart is correct.</p> <pre>%CHART{data="R2:C2..R9:C5" legend="R1:C2..R1:C5" name="line_35" table="table4" title="Test overlap @ top" type="line" xaxis="R2:C1..R9:C1" yaxis="on" ygrid="off" ymax="40"}%</pre>	
<p>Test that even with a ymax set too low such that the lines go off the top of the chart, the legends still stay on the chart.</p> <pre>%CHART{data="R2:C2..R4:C5" legend="R1:C2..R1:C5" name="line_36" table="table4" title="Test legends falling off top" type="line" xaxis="R2:C1..R9:C1" yaxis="on" ygrid="off" ymax="20"}%</pre>	
<p>Test that even with a ymin set too high such that some lines do not even show up on the chart because they fall below the chart, the legends still stay on the chart.</p> <pre>%CHART{data="R2:C2..R4:C5" legend="R1:C2..R1:C5" name="line_37" table="table4" title="Test legends falling off top" type="line" xaxis="R2:C1..R9:C1" yaxis="on" ygrid="off" ymin="21"}%</pre>	
<p>Test extremes that even when ymin is set higher than all data, that the legends still get drawn on the chart.</p> <pre>%CHART{data="R2:C2..R4:C5" legend="R1:C2..R1:C5" name="line_38" table="table4" title="Test legends falling off bottom" type="line" xaxis="R2:C1..R9:C1" yaxis="on" ygrid="off" ymax="60" ymin="50"}%</pre>	

Test extremes that even when ymax is set lower than all data, that the legends still get drawn on the chart.

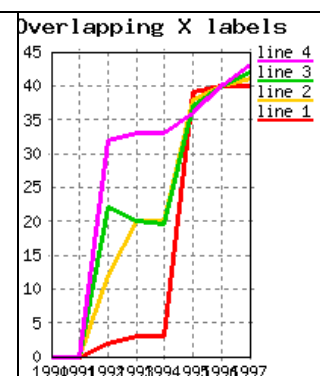
```
%CHART{data="R2:C2..R4:C5"
legend="R1:C2..R1:C5" name="line_39"
table="table4" title="Test legends
falling off top" type="line"
xaxis="R2:C1..R9:C1" yaxis="on"
ygrid="off" ymax="-10" ymin="-50"}%
```



## Test *numxgrids* and *xaxisangle* options

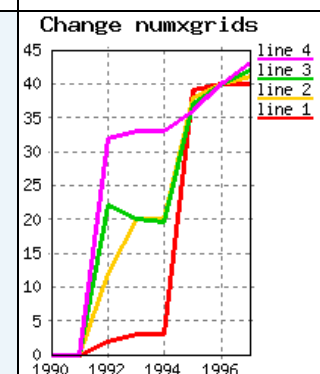
Show what happens when there is so much data that the X axis labels overlap

```
%CHART{data="R2:C2..R99:C5" legend="R1:C2..R1:C5"
name="line_40" table="table4" title="Overlapping X
labels" type="line" width="200" xaxis="R2:C1..R99:C1"
yaxis="on"}%
```



Take the above graph and specify *numxgrids* = "3" making the X axis labels more readable

```
%CHART{data="R2:C2..R99:C5" legend="R1:C2..R1:C5"
name="line_41" numxgrids="3" table="table4"
title="Change numxgrids" type="line" width="200"
xaxis="R2:C1..R99:C1" yaxis="on"}%
```



Take the first graph and specify *xaxisangle* = 90, changing the X axis label angle = 90 degrees

```
%CHART{data="R2:C2..R99:C5" legend="R1:C2..R1:C5"
name="line_42" numxgrids="9" table="table4"
title="Change xaxisangle" type="line" width="200"
xaxis="R2:C1..R99:C1" xaxisangle="90" yaxis="on"}%
```



## Test *scale* and *ytics* options



Show how scale=semilog makes the chart easier to read. Since ytics is NOT specified, it defaults to 8.

```
%CHART{data="R2:C8..R99:C8"
legend="R1:C8..R1:C8" name="line_43"
scale="semilog" table="table4"
title="semilogarithmic scale"
type="line" xaxis="R2:C1..R99:C1"
yaxis="on"}%
```



Show the above plotted data on a linear scale with ytics=1

```
%CHART{data="R2:C8..R99:C8"
legend="R1:C8..R1:C8" name="line_44"
table="table4" title="base10 scale
with ytics set to 1" type="line"
xaxis="R2:C1..R99:C1" yaxis="on"
ytics="1"}%
```



## Test defaultdata option

Show what happens when there is sparse data.

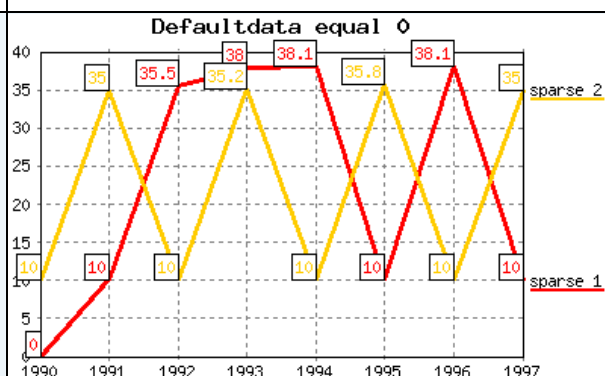
defaultdata = 0

```
%CHART{data="R2:C6..R99:C7"
datalabel="box" defaultdata="0"
legend="R1:C6..R1:C7" name="line_45"
table="table4" title="Defaultdata
equal 0" type="line"
xaxis="R2:C1..R99:C1" yaxis="on"}%
```



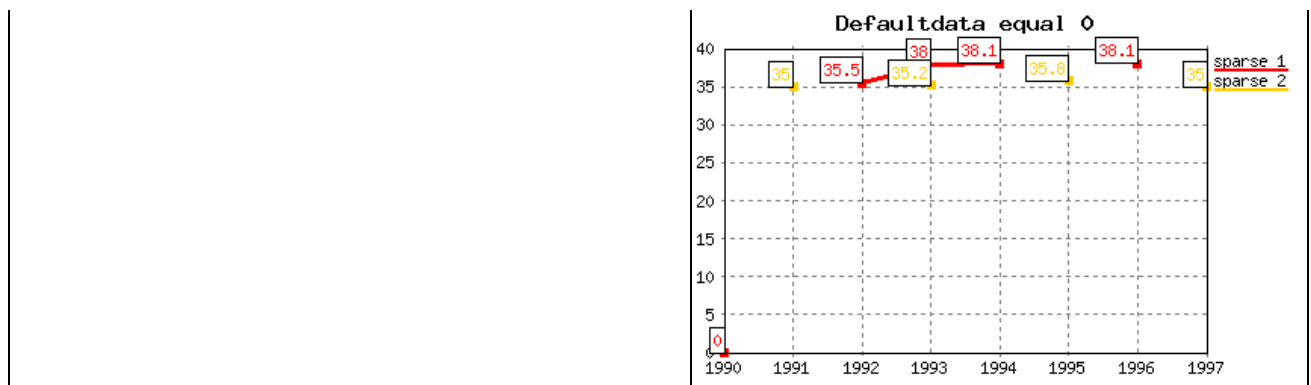
Same as above, but now defaultdata = 10

```
%CHART{data="R2:C6..R99:C7"
datalabel="box" defaultdata="10"
legend="R1:C6..R1:C7" name="line_46"
table="table4" title="Defaultdata
equal 0" type="line"
xaxis="R2:C1..R99:C1" yaxis="on"}%
```



Same as above, but now defaultdata = "none" (empty)

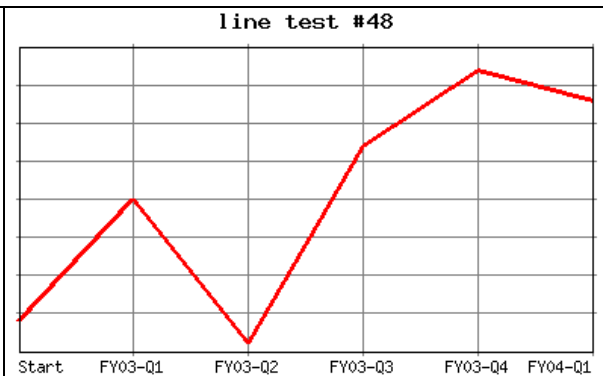
```
%CHART{data="R2:C6..R99:C7"
datalabel="box" defaultdata="none"
legend="R1:C6..R1:C7" name="line_47"
table="table4" title="Defaultdata
equal 0" type="line"
xaxis="R2:C1..R99:C1" yaxis="on"}%
```



## Test *gridcolor* option

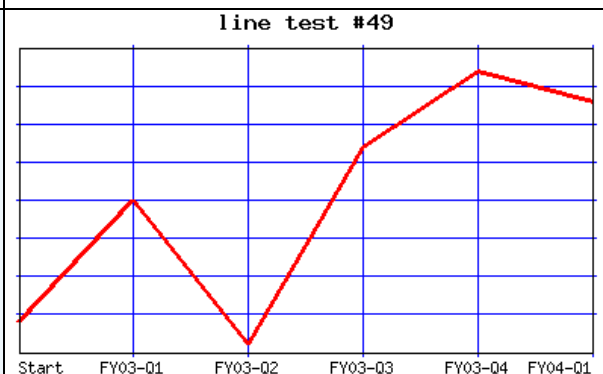
Show default grid color with solid grid lines.

```
%CHART{data="R2:C7..R7:C7"
name="line_48" table="table1"
title="line test #48" type="line"
xaxis="R2:C2..R7:C2" xgrid="on"
ygrid="on"}%
```



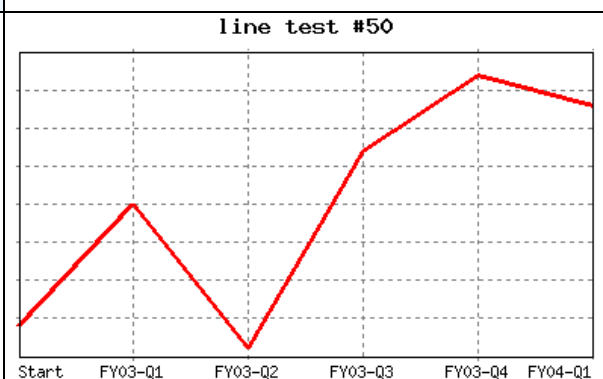
Change the grid color to blue.

```
%CHART{data="R2:C7..R7:C7"
gridcolor="#0000FF" name="line_49"
table="table1" title="line test #49"
type="line" xaxis="R2:C2..R7:C2"
xgrid="on" ygrid="on"}%
```



Change the grid color back to the default but make them dotted

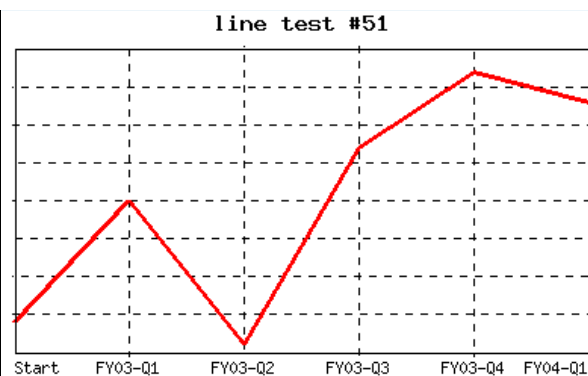
```
%CHART{data="R2:C7..R7:C7"
name="line_50" table="table1"
title="line test #50" type="line"
xaxis="R2:C2..R7:C2" xgrid="dot"
ygrid="dot"}%
```



Change the grid style to be 5 black dots and 5 transparent dots.

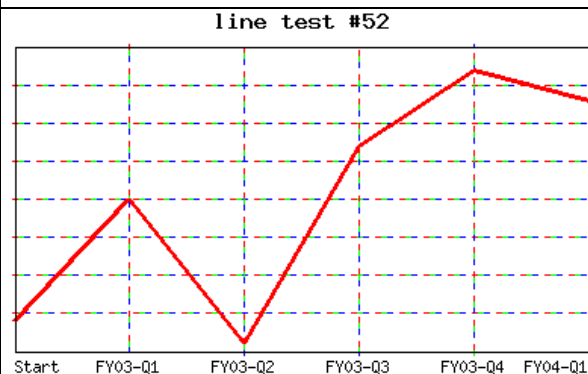
```
%CHART{data="R2:C7..R7:C7"
gridcolor="#000000, #000000, #000000,
#000000, #000000, transparent,
transparent, transparent, transparent,
transparent," name="line_51"
table="table1" title="line test #51"
}
```

```
type="line" xaxis="R2:C2..R7:C2"
xgrid="dot" ygrid="dot"}%
```



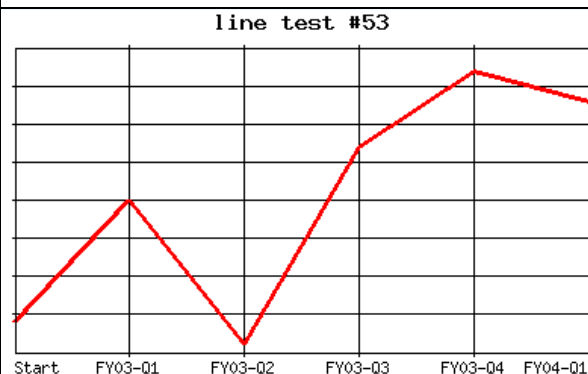
Change the grid style to be 4 red dots, 4 green dots, 4 blue dots and 4 transparent dots.

```
%CHART{data="R2:C7..R7:C7"
gridcolor="#FF0000, #FF0000, #FF0000,
#FF0000, #00FF00, #00FF00, #00FF00,
#00FF00, #0000FF, #0000FF, #0000FF,
#0000FF, transparent, transparent,
transparent, transparent,"
name="line_52" table="table1"
title="line test #52" type="line"
xaxis="R2:C2..R7:C2" xgrid="dot"
ygrid="dot"}%
```



Change the grid style to be 1 black dot which basically makes a solid line

```
%CHART{data="R2:C7..R7:C7"
gridcolor="#000000" name="line_53"
table="table1" title="line test #53"
type="line" xaxis="R2:C2..R7:C2"
xgrid="dot" ygrid="dot"}%
```







# Error handling tests

Description	Expected Output	Output
no parameters passed to CHART <code>%CHART{}%</code>	ChartPlugin error: parameter <b>name</b> must be specified </ p>	ChartPlugin error: parameter <b>name</b> must be specified
Define type but name not specified <code>%CHART{type="bar"}%</code>	ChartPlugin error: parameter <b>name</b> must be specified </ p>	ChartPlugin error: parameter <b>name</b> must be specified
Invalid type of badtype <code>%CHART{type="badtype"}%</code>	ChartPlugin error: Invalid value of <b>badtype</b> for parameter <b>type</b> </ p>	ChartPlugin error: Invalid value of <b>badtype</b> for parameter <b>type</b>
Missing topic page <code>%CHART{name="err1" topic="DoesNotExist" type="line"}%</code>	ChartPlugin error: Error retrieving Foswiki topic DoesNotExist? </ p>	ChartPlugin error: Error retrieving Foswiki topic System.DoesNotExist
Missing web <code>%CHART{name="err1" type="line" web="DoesNotExist"}%</code>	ChartPlugin error: Error retrieving Foswiki topic ChartPluginTests? </ p>	ChartPlugin error: Error retrieving Foswiki topic DoesNotExist?.ChartPluginTests
Invalid table number <code>%CHART{name="err1" table="999" type="line"}%</code>	ChartPlugin error: parameter <b>table</b> is not valid table; the specified table '999' does not exist. </ p>	ChartPlugin error: parameter <b>table</b> is not valid table; the specified table '999' does not exist.
No data specified <code>%CHART{name="err1" type="line"}%</code>	ChartPlugin error: parameter <b>data</b> must be specified </ p>	ChartPlugin error: parameter <b>data</b> must be specified
invalid xaxis value <code>%CHART{data="R2:C4..R7:C7" name="err1" type="line" xaxis="R2:C4..R7:C7"}%</code>	ChartPlugin error: parameter <b>xaxis</b> specifies multiple rows and columns. </ p>	ChartPlugin error: parameter <b>xaxis</b> specifies multiple (6X4) rows and columns.
invalid legend <code>%CHART{data="R1:C1..R2:C2" legend="R1:C1..R2:C2" name="err1" type="line" xaxis="R1:C1..R2:C2"}%</code>	ChartPlugin error: parameter <b>legend</b> specifies multiple rows and columns. </ p>	ChartPlugin error: parameter <b>legend</b> specifies multiple (2) rows.

Description	Expected Output	Output
<p>ymin = ymax such that there is no chart height</p> <pre>%CHART{data="R1:C1..R2:C2" name="err1" type="line" xaxis="R1:C1..R1:C2" ymax="10" ymin="10"}%</pre>	<p>ChartPlugin error: chart error: name=err1: Chart height = 0 (ymin(10) == ymax(10))</p>	<p>ChartPlugin error: chart error: name=err1: Chart height = 0 (ymin(10) == ymax(10))</p>
<p>xmin = xmax such that there is no chart width</p> <pre>%CHART{data="R2:C4..R7:C4" name="err1" type="scatter" xaxis="R2:C3..R7:C3"}%</pre>	<p>ChartPlugin error: chart error: name=err1: Chart width = 0 (xmin(0) == xmax(0))</p>	<p>ChartPlugin error: chart error: name=err1: Chart width = 0 (xmin(0) == xmax(0))</p>
<p>Use an invalid xaxis range</p> <pre>%CHART{data="R2:C4..R7:C7" name="err1" xaxis="R2:C2"}%</pre>	<p>ChartPlugin error: parameter <b>xaxis</b> value of 'R2:C2' is not valid</p>	
<p>Use an invalid data range</p> <pre>%CHART{data="R2:C4" name="err1"}%</pre>	<p>ChartPlugin error: parameter <b>data</b> value of 'R2:C4' is not valid</p>	<p>ChartPlugin error: chart error: name=err1: Error: Number of data points needs to be &gt; 1</p>
<p>Use an invalid legend range</p> <pre>%CHART{data="R2:C4..R7:C7" legend="R1:C4" name="err1"}%</pre>	<p>ChartPlugin error: parameter <b>legend</b> contains an invalid value 'R1:C4'.</p>	<p>ChartPlugin error: parameter <b>legend</b> contains an invalid value 'R1:C4' since it specifies 1 legends and there are 4 data sets.</p>
<p>scale=semilog and data &lt;= 0</p> <pre>%CHART{data="R2:C3..R7:C7" name="err1" scale="semilog"}%</pre>	<p>ChartPlugin error: data (0) &lt;= 0 not valid when scale=semilog</p>	<p>ChartPlugin error: data (0) &lt;= 0 not valid when scale=semilog</p>

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