Modul:Chart/Doku

Dies ist die Dokumentationsseite für Modul:Chart

Mobile View Problem: Bar charts behave unpredictably, causing problems with the axes and legend. Use Template:Graph:Chart instead. Pie charts aren't too bad. Module Chart exports two functions: bar chart and pie chart

Note - Template:Graph:Chart is an alternative template, that may be more suitable for your use case.

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Drawing Bar charts: "bar chart"

Parameters

parameter name	what it does
delimiter	string to delimit multiple values when given. default to colon (:). normally you do not want to touch this, it's provided for the off-chance you'll want to use colon as part of one of the parameters.
width	number. if provided, must be at least 200. default: 500
height	number. if provided, must be at least 200. default: 350
groupn	(where "n" is a number. use "group 1", "group 2" etc. for as many groups as there are in the graph) the values to be charted. see below.

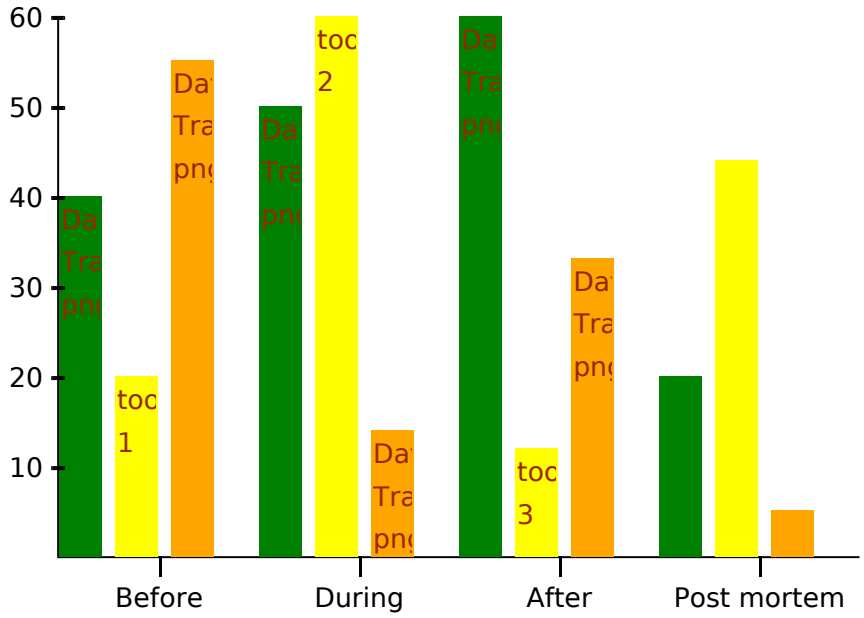
parameter name	what it does
tooltip n	tooltip to be associated with specific bar. If no tooltip for a specific bar is defined, and this bar has a link, then this link will be used as tooltip. Otherwise, the tooltip will be combined from the group name and the value, optionally with "units prefix" and "units suffix".
links n	links to articles to be associated with specific bar
stack	whether to stack the different groups on top of each other. do not specify to show bars side by side. Any non-empty value means "yes". To say "no", simply do not supply this parameter at all, or leave the value blank.
Vorlage: Nowrap	useful only with stack: when set to true, tooltip will show accumulated value of all blocks up to current one
colors	the colors used to denote the various groups. should have exactly as many values as # of groups. can be given as standard html-recognized color names, or using #xxx or #xxxxxx notation.
x legends	The legends for the X values. Wikicode, such as internal links or templates can be used.
Vorlage: Nowrap	if set to true, group legends will not be shown below chart. Any non-empty value means "yes". To say "no", simply do not supply this parameter at all, or leave the value blank.
Vorlage: Nowrap	set to use separate Y- scale for each group. leave empty to use one scale for all groups. incompatible with "stack". Note that even if some of the scales are exactly the same, they will be drawn separately when this setting is on. Any non-empty value means "yes". To say "no", simply do not supply this parameter at all, or leave the value blank.
Vorlage	

parameter name	what it does
: Nowrap	used in tooltip. e.g., $, so values will show as "$500" instead of "500" in the tooltip
Vorlage: Nowrap	ditto for units suffix. use, e.g. "Kg" so values will show as 88Kg instead of 88 in tooltip. underscore ("_") are replaced by spaces, to allow a space between the value and the suffix.
Vorlage: Nowrap	names of different groups
Vorlage: Nowrap	number of tick marks on the y axis. if the value is negative or omitted, the module will attempt to automatically calculate a sensible number of tick marks.

Examples

Basic

```
{{ #invoke:Chart | bar chart
| group 1 = 40 : 50 : 60 : 20
| group 2 = 20 : 60 : 12 : 44
| group 3 = 55 : 14 : 33 : 5
| links 1 = Apple : McCintosh : Golden delicious
| links 2 = Banana : Apricot : Peach
| links 3 = Orange : Pear : Bear
| tooltip 2 = tooltip 1 : tooltip 2 : tooltip 3 : tooltip 4
| colors = green : yellow : orange
| group names = Apple : Banana : Orange
| x legends = Before : During : After : Post mortem
}}
```

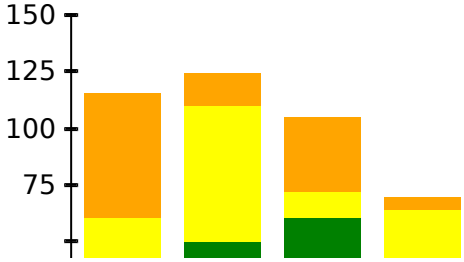


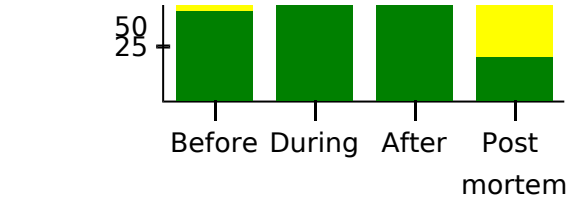


Stacked

Here is the same graph, with more modest height and width, using "stack", and adding "units suffix" for good measure:

```
{{ #invoke:Chart | bar chart
| height = 250
| width = 300
| stack = 1
| group 1 = 40 : 50 : 60 : 20
| group 2 = 20 : 60 : 12 : 44
| group 3 = 55 : 14 : 33 : 5
| colors = green : yellow : orange
| group names = Apple : Banana : Orange
| units suffix = Kg
| x legends = Before : During : After : Post mortem
}}
```



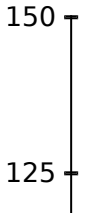


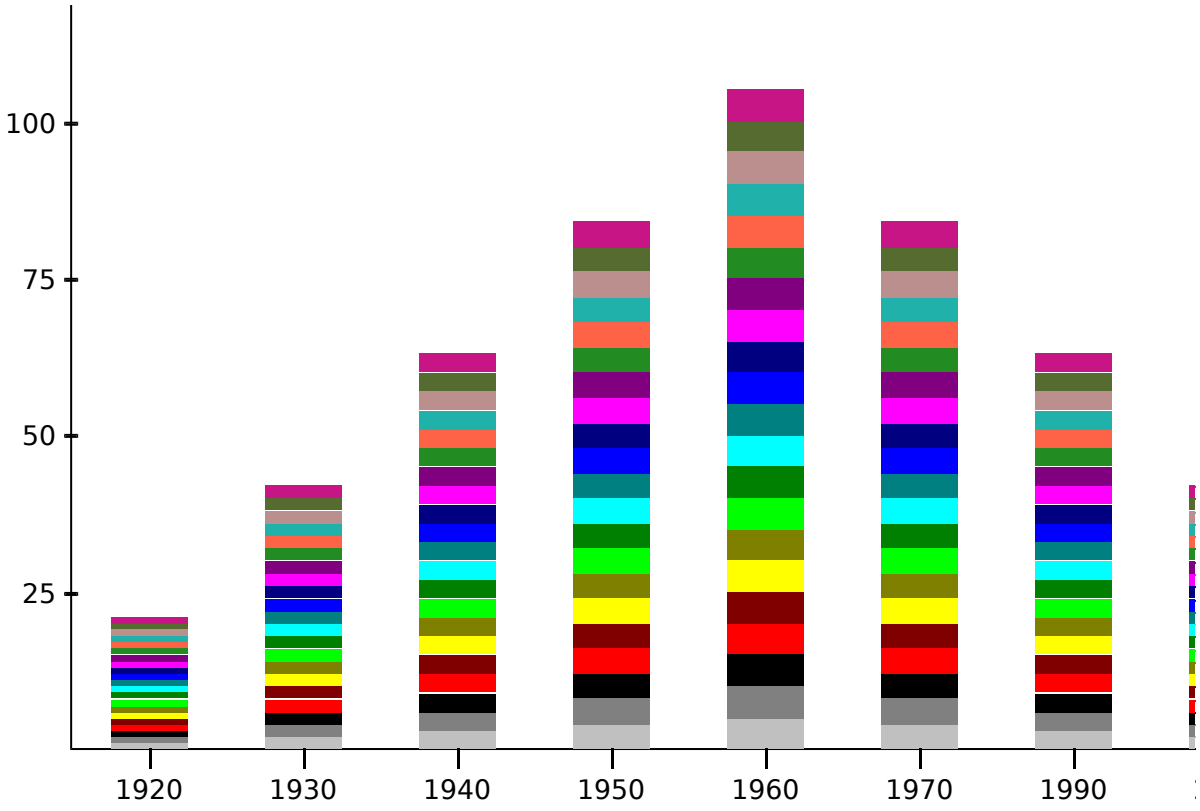


Scale per group

This option has been disabled. It was rarely used and broke in the last code update. Here is an example with large number of groups - mainly to test how it looks with large number of legends:

```
{{ #invoke:Chart | bar chart
| width = 800
| height = 550
| group 1 = 1:2:3:4:5:4:3:2:1
| group 2 = 1:2:3:4:5:4:3:2:1
| group 3 = 1:2:3:4:5:4:3:2:1
| group 4 = 1:2:3:4:5:4:3:2:1
| group 5 = 1:2:3:4:5:4:3:2:1
| group 6 = 1:2:3:4:5:4:3:2:1
| group 7 = 1:2:3:4:5:4:3:2:1
| group 8 = 1:2:3:4:5:4:3:2:1
| group 9 = 1:2:3:4:5:4:3:2:1
| group 10 = 1:2:3:4:5:4:3:2:1
| group 11 = 1:2:3:4:5:4:3:2:1
| group 12 = 1:2:3:4:5:4:3:2:1
| group 13 = 1:2:3:4:5:4:3:2:1
| group 14 = 1:2:3:4:5:4:3:2:1
| group 15 = 1:2:3:4:5:4:3:2:1
| group 16 = 1:2:3:4:5:4:3:2:1
| group 17 = 1:2:3:4:5:4:3:2:1
| group 18 = 1:2:3:4:5:4:3:2:1
| group 19 = 1:2:3:4:5:4:3:2:1
| group 20 = 1:2:3:4:5:4:3:2:1
| group 21 = 1:2:3:4:5:4:3:2:1
| colors = Silver:Gray:Black:Red:Maroon:Yellow:Olive:Lime:Green:Aqua:Teal:Blue:Na
| group names = Alabama:Alaska:Arizona:Arkansas:California:Colorado:Connecticut:D
| x legends = 1920 : 1930 : 1940: 1950 : 1960 : 1970 : 1990 : 2000 : 2010
| units prefix = $
| units suffix = _billion
| stack = 1
}}
```

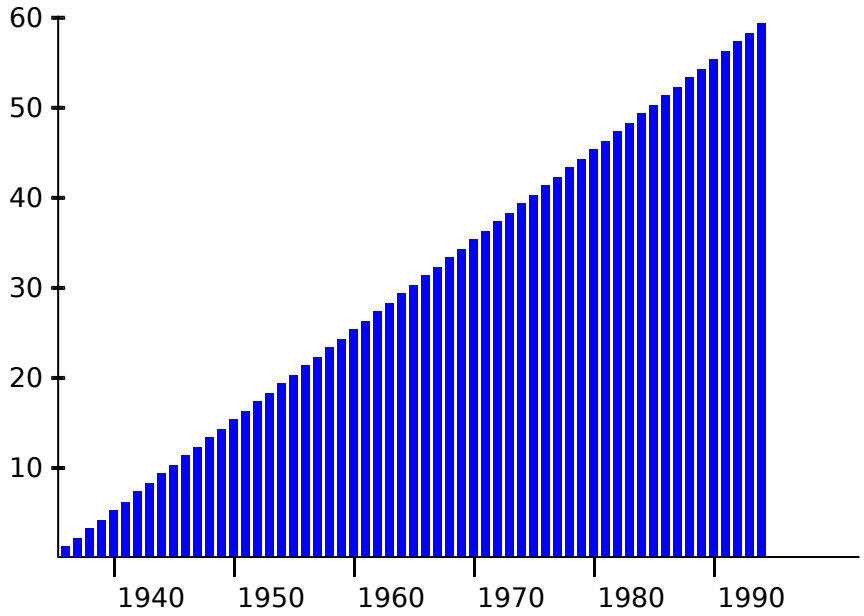



100
75
50
25
1920
1930
1940
1950
1960
1970
1990


Alabama
Alaska
Arizona
Arkansas
California
Colorado
Connecticut
Delaware
Florida
Georgia
Hawaii
Idaho
Illinois
Indiana
Iowa
Kansas
Kentucky
Louisiana
Maine
Maryland
Massachusetts

If there are many values, x legends can be diluted by using delimiters with nothing in between:

```
{{ #invoke:Chart | bar chart
| group 1 = 1:2:3:4:5:6:7:8:9:10:11:12:13:14:15:16:17:18:19:20:21:22:23:24:25:26:
:31:32:33:34:35:36:37:38:39:40:41:42:43:44:45:46:47:48:49:50:51:52:53:54:55:56:57
| units suffix = _Things
| group names = Some
| x legends = ::::1940:::::::::1950:::::::::1960:::::::::1970:::::::::1980:::
}}
```



Vorlage:-

Drawing Pie charts: "pie chart"

Parameters

parametername	what it does
delimiter	string to delimit multiple values when given. default to colon (:). normally you do not want to touch this, it's provided for the off-chance you'll want to use colon as part of one of the parameters.
radius	number. The radius of the pie in pixels
	Tuples, in parenthesis. Use delimiter inside the tuple: `( Value1 : Name1 : Color1 : Link1 ) ( Value2 : Name2 : Color2 : Link2 ) ...` The values are numbers. The numbers can be integers or decimal fractions, or using the scientific notation: 7.24e6, 7,240,000, or 7240000.00 are all acceptable for 7 Million and 240 thousands.

parametername	what it does
slices	Names are strings. Colors are optional. you can use any Web colors, such as "red" or "#FF0000". Up to 26 default colors are defined, but if your pie has more than 26 slices, you must define the colors of slice #27 and up. Links can be external or internal links, including linking to internal anchors and paragraphs in the same article, like so: [[Article|Tooltip]] for internal link, [[#Paragraph name|Tooltip]] for linking to an anchor in same article, or [http://example.org Tooltip] for external link.

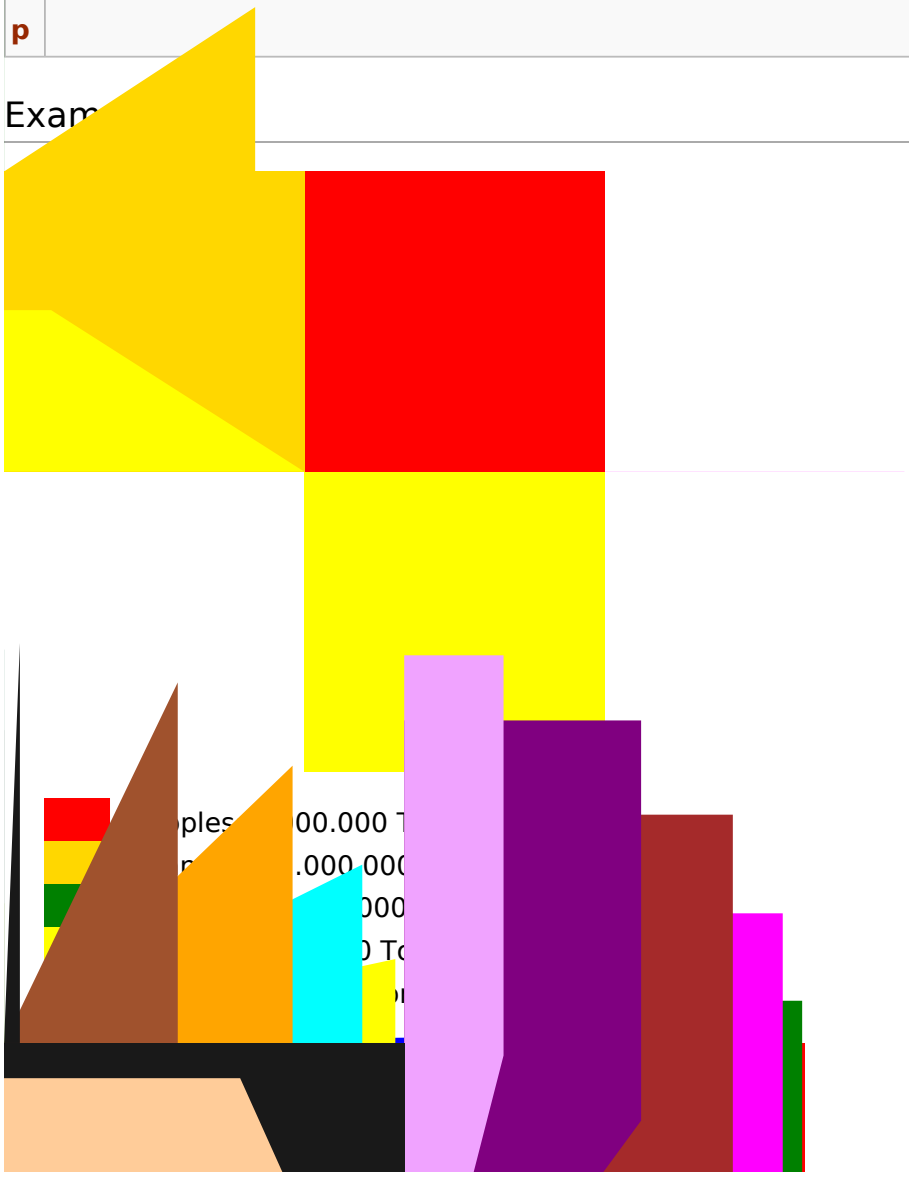
Vorlage:Nowrap	alternative syntax to "slices". n is the slice number, beginning with 1. make sure not to skip: if you define "slice 1", "slice 2", "slice 4", "slice 5"..., skipping slice 3, only the first two slices will be shown. this syntax is incompatible with "slices", i.e., they should not be used in conjunction in the same invocation. Using both "slices" and "slice n" in the same invocation will cause unpredictable results. The value is like a single "tuple" as explained above, but without the parenthesis:
	`| slice 1 = Value1 : Name1 : Color1 : Link1`
	`| slice 2 = Value2 : Name2 : Color2 : Link2`
	`| ...`
	This syntax allows you to use parenthesis in names, links, and colors.

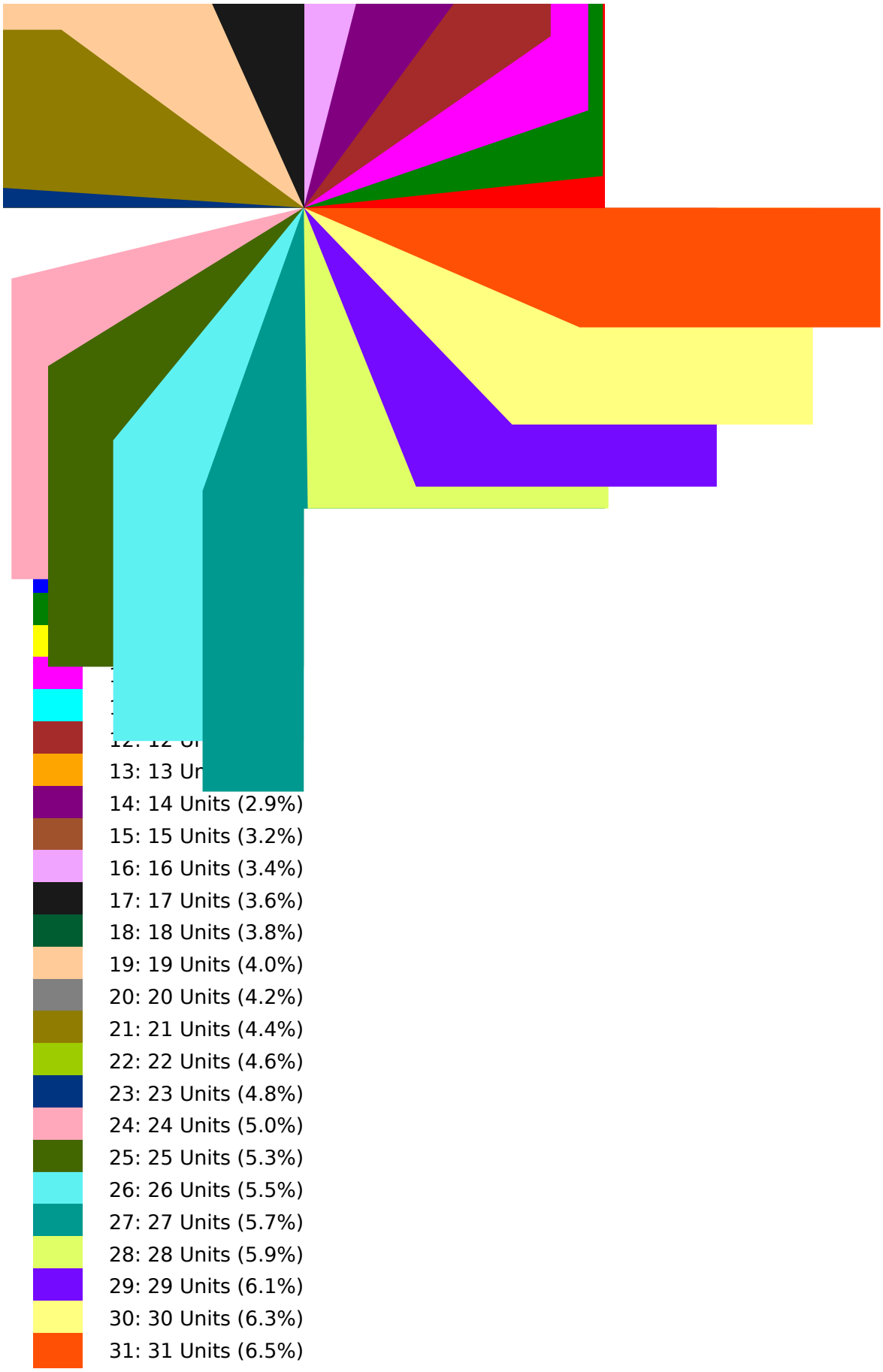
percent	if used, the percentage of each slice will be calculated and added to the legend: so if you have two slices, like so: (1 : Younglings) (3 : elders), and use define "percent", the legends will become "Younglings: 1 (25%)" and "Elders: 3 (75%)", instead of simply "Younglings: 1" and "Elders: 3". Any non-empty value means "yes". To say "no", simply do not supply this parameter at all, or leave the value blank.
Vorla	

parametername	what it does
ge:Nowrap	used in the legend. e.g., defining "units prefix=$", values will show as "$500" instead of "500" in the legends
Vorlage:Nowrap	ditto for units suffix. use, e.g. "Kg" so values will show as 88Kg instead of 88 in legend. underscore ("_") are replaced by spaces, to allow a space between the value and the suffix.
Vorlage:N	

parametername	what it does
owrap	Setting to true prevents displaying of the group legends under the chart. Any non-empty value means "yes". To say "no", simply do not supply this parameter at all, or leave the value blank.

Exam




13: 13 Un
14: 14 Units (2.9%)
15: 15 Units (3.2%)
16: 16 Units (3.4%)
17: 17 Units (3.6%)
18: 18 Units (3.8%)
19: 19 Units (4.0%)
20: 20 Units (4.2%)
21: 21 Units (4.4%)
22: 22 Units (4.6%)
23: 23 Units (4.8%)
24: 24 Units (5.0%)
25: 25 Units (5.3%)
26: 26 Units (5.5%)
27: 27 Units (5.7%)
28: 28 Units (5.9%)
29: 29 Units (6.1%)
30: 30 Units (6.3%)
31: 31 Units (6.5%)