HIGHCHARTS

LINE CHARTS

Monthly Average Temperature
Source: WorldClimate.com

30
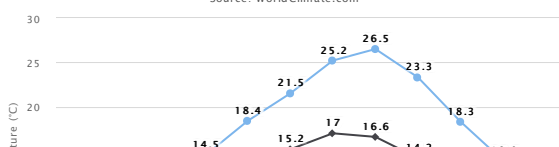
25

20

● Tokyo

(°C)

Basic line
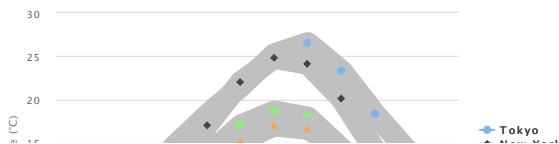
Daily visits at www.highcharts.com
■ Visits ◆ Unique Visitors Source: Google Analytics

20 000

20 000

15 000

15 000

Ajax loaded data, clickable points

Monthly Average Temperature
Source: WorldClimate.com

30

26.5

25.2

23.3

21.5

18.4

18.3

17

16.6

14.5

15.2

ture (°C)

With data labels

USD to EUR exchange rate over time
Pinch the chart to zoom in

1

0.9

0.9

0.9

rate

Time series, zoomable
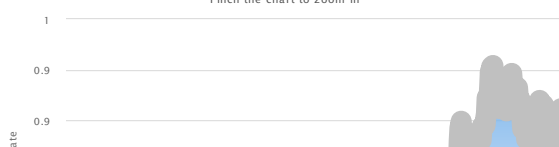
Atmosphere Temperature by Altitude
According to the Standard Atmosphere Model

75km

50km

le

Spline with inverted axes

Monthly Average Temperature
Source: WorldClimate.com

30°

25°

20°

rature

Spline with symbols
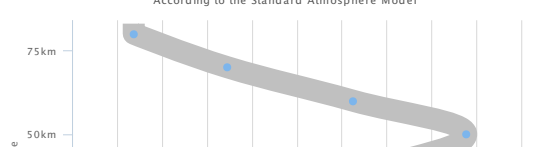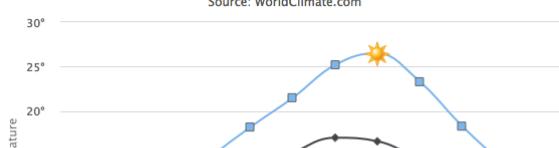
Wind speed during two days
May 31 and and June 1, 2015 at two locations in Vik i Sogn, Norway

15   High wind

12.5   Strong breeze

10   Fresh breeze

Wind speed (m/s)

7.5   Moderate breeze

5   Gentle breeze

2.5   Light bre

0
31. May   08:00   16:00   1. Jun   08:00   16:00   2. Jun

■ Hestavollane ■ Vik

Spline with plot bands

Snow depth at Vikjafjellet, Norway
Irregular time data in Highcharts JS

3

2

epth (m)
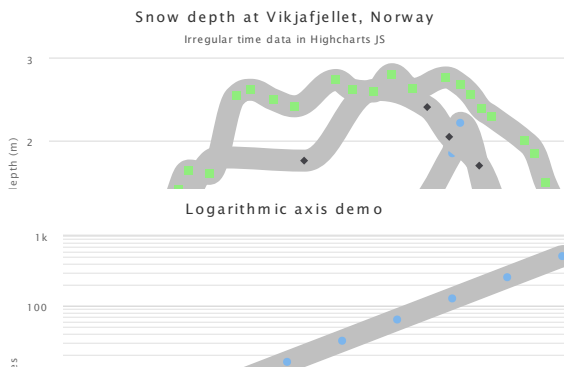
Time data with irregular intervals

Logarithmic axis demo

1k

100

Logarithmic axis

AREA CHARTS

US and USSR nuclear stockpiles
Source: thebulletin.metapress.com

50k

40k

30k

pon states

Basic area

Area chart with negative values

7.5

5

2.5

lues

Area with negative values

Historic and Estimated Worldwide Population Growth by Region
Source: Wikipedia.org

10

7.5

s

Stacked area

Historic and Estimated Worldwide Population Distribution by Region
Source: Wikipedia.org

100

75

t

Percentage area

Fruit consumption *

8

6

4

-Axis

John
Jane

Area with missing points

Average fruit consumption during one week

Monday

Tuesday

Wednesday

John
Jane

Inverted axes

Average fruit consumption during one week

15

12.5

10

7.5

5

2.5

0

Fruit units

John
Jane

Monday Tuesday Wednesday Thursday Friday Saturday Sunday

Area-spline

Temperature variation by day

Area range

July temperatures

Area range and line

State	Income	Income per quarter	Costs	Costs per quarter	Result	Result per quarter
Alabama	254		296		-42	
Alaska	246		181		65	
Arizona	101		191		-90	
Arkansas	303		76		227	
California	300		317		17	

Sparkline charts

COLUMN AND BAR CHARTS

| Delaware | 161 | | 298 | | 137 | |

Historic World Population by Region
Source: Wikipedia.org

Africa 133 | 1 052
America 156 | 954

Year 1800
Year 1900
Year 2012

Basic bar
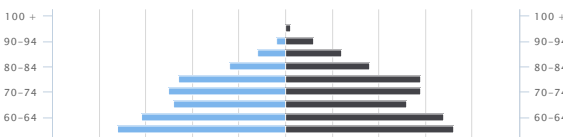
Stacked bar chart

Apples
Oranges
Pears
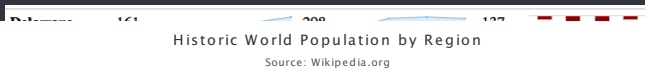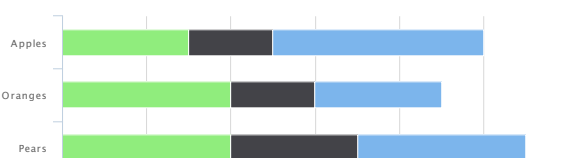
Stacked bar

Population pyramid for Germany, 2015
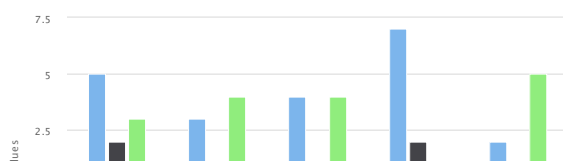Source: Population Pyramids of the World from 1950 to 2100

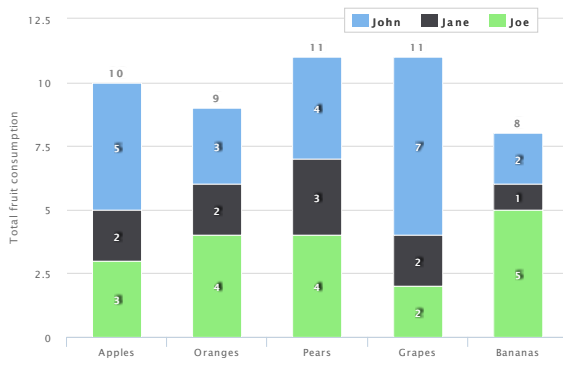**Bar with negative stack**

Monthly Average Rainfall
Source: WorldClimate.com
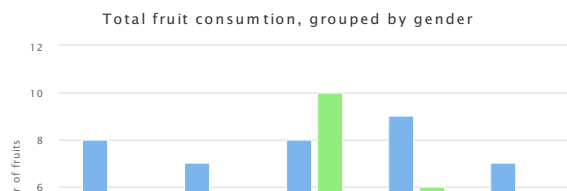
(mm)

Basic column

Column chart with negative values

lues

Column with negative values

Stacked column chart

John Jane Joe

Total fruit consumption

Apples Oranges Pears Grapes Bananas

Stacked column

Total fruit consumtion, grouped by gender

Stacked and grouped column

Stacked column chart
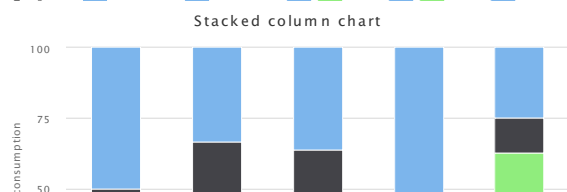
Stacked percentage column

World's largest cities per 2014
Source: Wikipedia

23.7
16.1
2
0

Column with rotated labels

Browser market shares. January, 2015 to May, 2015
Click the columns to view versions. Source: netmarketshare.com.

56.3%

Column with drilldown

Efficiency Optimization by Branch
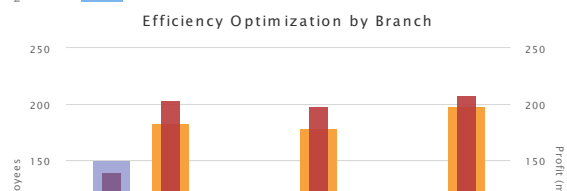
Fixed placement columns

Data extracted from a HTML table in the page
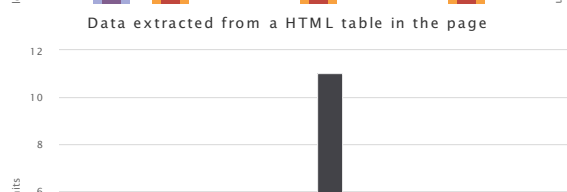
Data defined in a HTML table

Temperature variation by month
Observed in Vik i Sogn, Norway

Column range

Jan	-9.7°C	9.4°C
Feb	-8.7°C	6.5°C
Mar	-3.5°C	9.4°C
Apr	-1.4°C	19.9°C
May	0°C	22.6°C

PIE CHARTS

Sep | 4.4°C | 18°C

Browser market shares January, 2015 to May, 2015

Pie chart

Proprietary or Undetectable: 0.2 %
Opera: 0.9 %
Safari: 4.9 %
Firefox: 10.7 %

Browser market shares January, 2015 to May, 2015

Pie with legend

■ Microsoft Internet Explorer ■ Chrome ■ Firefox ■ Safari ■ Opera
■ Proprietary or Undetectable
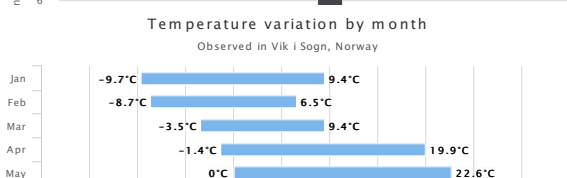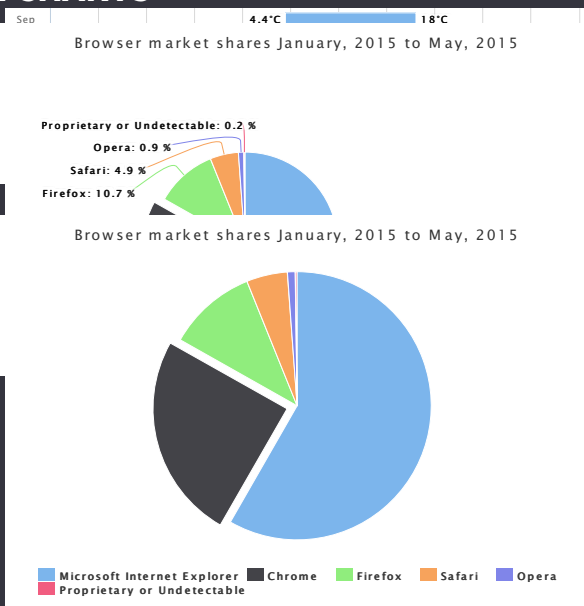
Browser market share, January, 2015 to May, 2015

Safari v8.0: 2.5%   **MSIE 6.0: 1.0%**
Chrome v43.0: 1.4%
Chrome v42.0: 3.6%   **MSIE 8.0: 17.2%**
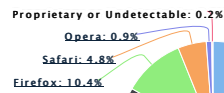**Chrome v41.0: 4.3%**
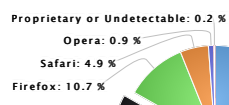**Chrome v40.0: 5%**
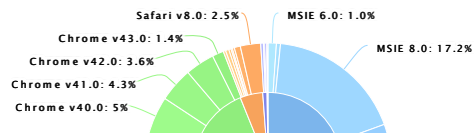
Donut chart

Semi circle donut

IE

Browser market shares. January, 2015 to May, 2015

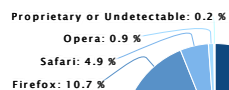Click the slices to view versions. Source: netmarketshare.com.

Pie with drilldown

Proprietary or Undetectable: 0.2%
Opera: 0.9%
Safari: 4.8%
Firefox: 10.4%

Browser market shares. January, 2015 to May, 2015

Pie with gradient fill

Proprietary or Undetectable: 0.2 %
Opera: 0.9 %
Safari: 4.9 %
Firefox: 10.7 %

Browser market shares at a specific website, 2014

Pie with monochrome fill

Proprietary or Undetectable: 0.2 %
Opera: 0.9 %
Safari: 4.9 %
Firefox: 10.7 %

SCATTER AND BUBBLE CHARTS

Chrome: 24.9 %   **Microsoft Internet Explorer: 58.3**

Height Versus Weight of 507 Individuals by Gender
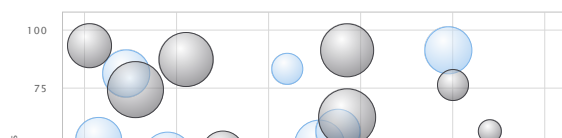
Source: Heinz 2003

140
120
100

● **Female**
◆ **Male**

(kg)

Scatter plot

Highcharts Bubbles

125
100
75
50

lues
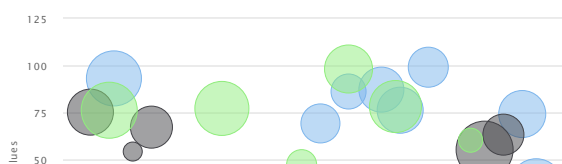
Bubble chart

Highcharts bubbles with radial gradient fill

100
75

3D bubbles

COMBINATIONS

Speed
15
10
5

0 km   1 km   2 km   3 km   4 km   5 km   6 km

Synchronized charts

Elevation
750
500
250

0 km   1 km   2 km   3 km   4 km   5 km   6 km

Heart rate
200

100

0 km   1 km   2 km   3 km   4 km   5 km   6 km

Combination chart

Column, line and pie

Total fruit consumption

Average Monthly Temperature and Rainfall in Tokyo

Source: WorldClimate.com
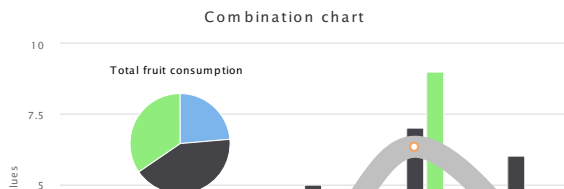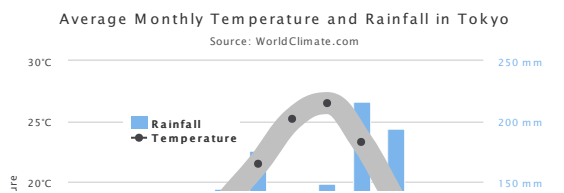
Dual axes, line and column

30℃
250 mm

25℃
200 mm

Rainfall
Temperature

20℃
150 mm

Average Monthly Weather Data for Tokyo

Source: WorldClimate.com

Multiple axes

250 mm
30℃
1028 mb

Rainfall
Sea-Level Pressure
Temperature

200 mm
25℃
1024 mb

150 mm
20℃
1020 mb

Scatter plot with regression line
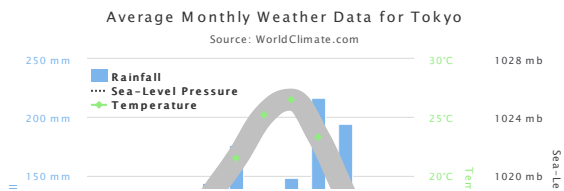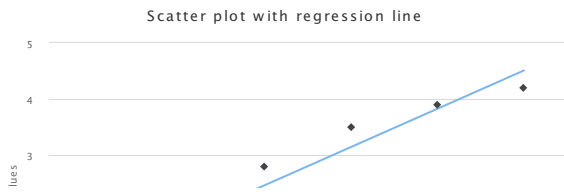
Scatter with regression line

5

4

3

Meteogram for London, United Kingdom

Meteogram

Fri Jul 3
Sat Jul 4
hPa

40°
2.7
2.8

32°
1.5

24°
0.6

0.2

Highcharts and Highsoft timeline

Advanced timeline

5

Offices:
Tomtebu

Highcharts Anniversary
2009-2014

25

20

Award

Award

Award

15

DYNAMIC CHARTS

Cloud

Live random data
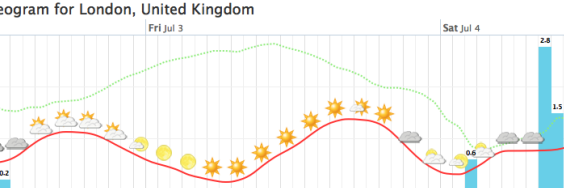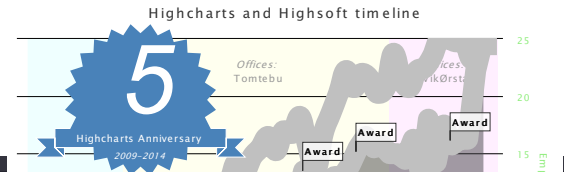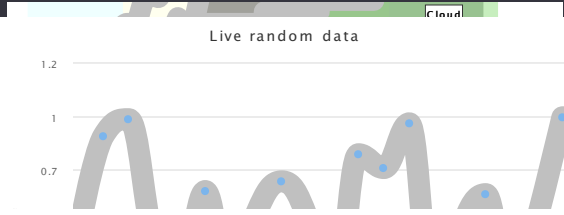
Spline updating each second

1.2

1

0.7

User supplied data

Click the plot area to add a point. Click a point to remove it.

Click to add a point

100

75

Historical USD to EUR Exchange Rate

Select an area by dragging across the lower chart

Master-detail chart

1

0.9

3D CHARTS

0.7

Sep '13   Jan '14   May '14   Sep '14   Jan '15

Chart rotation demo
Test options by dragging the sliders below

3D column

3D chart with null values
Notice the difference between a 0 value and a null point
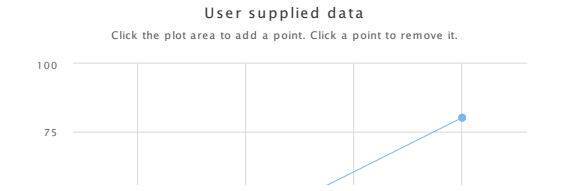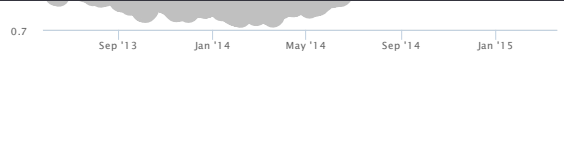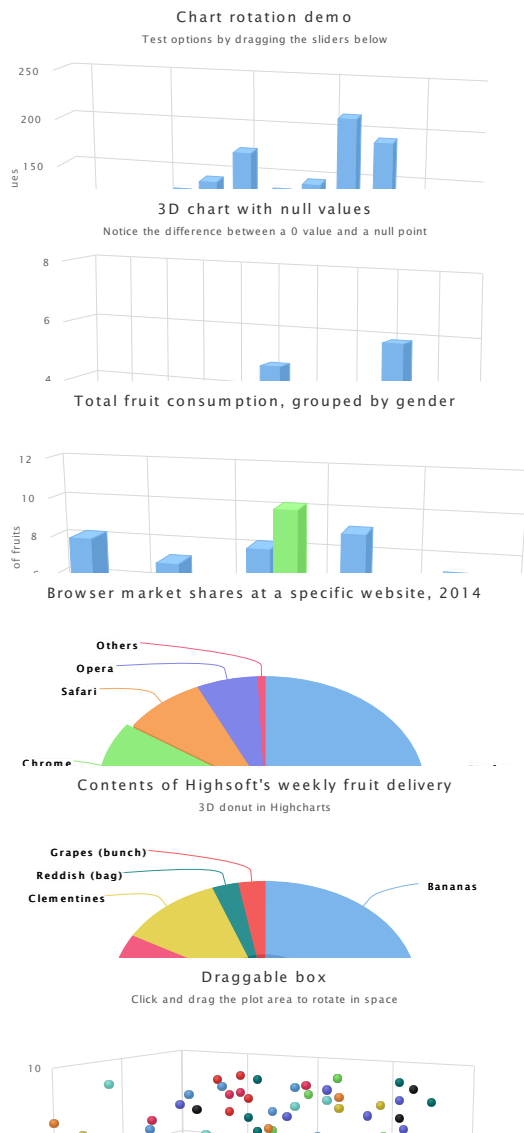
3D column with null and 0 values

Total fruit consumption, grouped by gender

3D column with stacking and grouping

Browser market shares at a specific website, 2014

Others
Opera
Safari
Chrome

3D pie

Contents of Highsoft's weekly fruit delivery
3D donut in Highcharts

Grapes (bunch)
Reddish (bag)
Clementines
Bananas

3D donut

Draggable box
Click and drag the plot area to rotate in space

3D scatter chart

GAUGES

Speedometer

100
80 120
km/h
60 140

Angular gauge

Speed
RPM

80
km/h

1.0
* 1000 / min

0 200 0 5

Solid gauge

The Highcharts clock

11 12 1
10 2
9 3
8 4
7 6 5
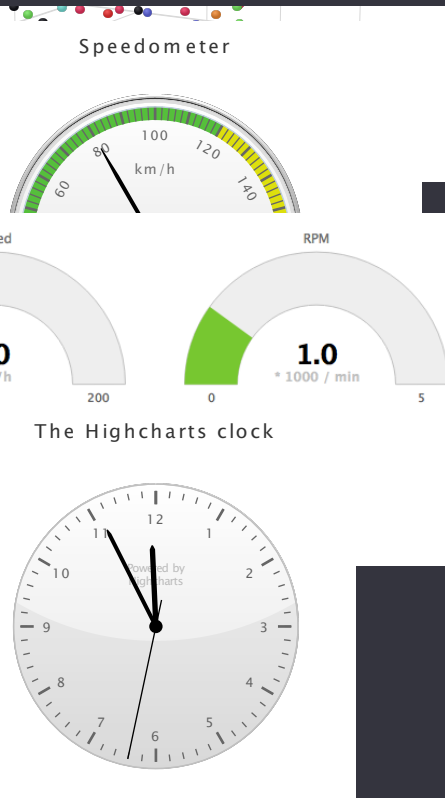
Clock

Gauge with dual axes

Speedometer with dual axes

VU meter

VU meter

-10 0
-20
VU
Channel A

-10 0
-20
VU
Channel B
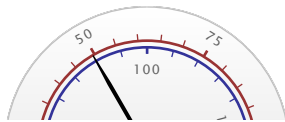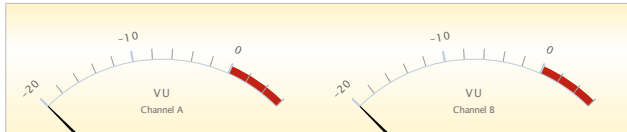
HEAT AND TREE MAPS

Heat map

Sales per employee per weekday

Friday	67	48	52	16	115	120	96	30	84	91
Thursday	24	117	64	19	117	6	98	32	64	48
Wednesday	8	78	123	114	8	12	88	82	123	31

0
25
50
75
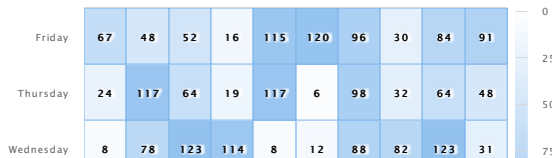
Large heat map

Highcharts extended heat map
Temperature variation by day and hour through 2013

0:00
6:00
12:00
18:00

January February March April May June July August September October November December

−10℃ 0℃ 10℃ 20℃

Tree map with color axis

Highcharts Treemap

B   C

A

Tree map with levels

Fruit consumption

Bananas   Apples
                        Anne

Rick   Peter
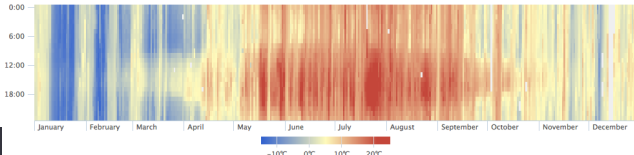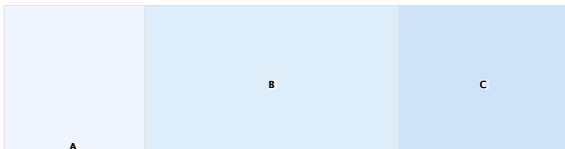
Large tree map

Global Mortality Rate 2012, per 100 000 population
Click points to drill down. Source: WHO.

Africa   South-East Asia   Western Pacific

MORE CHART TYPES

Polar chart

Highcharts Polar Chart

0°
315°   45°
5

Spiderweb

Budget vs spending

Sales

Administration   Marketing

Information
Technology   Development

Customer
Support

Allocated Budget
Actual Spending

50k
25k
0k
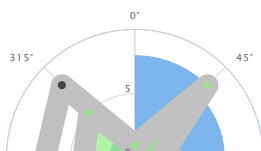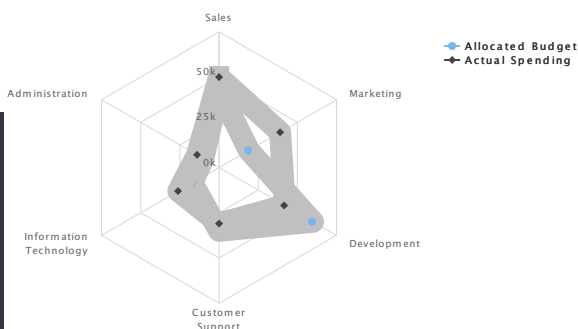
Wind rose for South Shore Met Station, Oregon
Source: or.water.usgs.gov

Wind rose

Legend:
- < 0.5 m/s
- 0.5–2 m/s
- 2–4 m/s
- 4–6 m/s
- 6–8 m/s

Highcharts Box Plot Example

Theoretical mean: 932
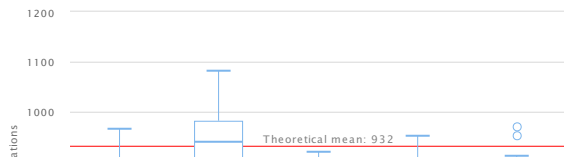
Box plot

Temperature vs Rainfall
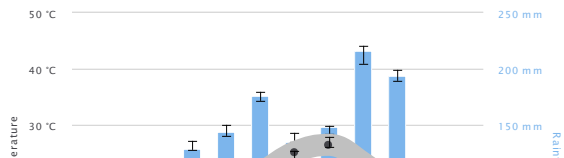
Error bar

Highcharts Waterfall

231k
920k
−342k
−233k
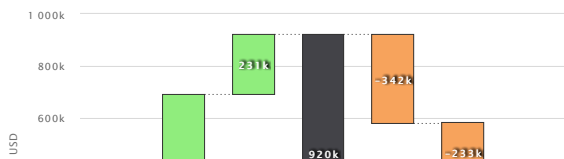
Waterfall

Sales funnel

Website visits (15 654)

Funnel chart

Sales pyramid

Finalized (846)
Invoice sent (976)
Requested price list (1 987)
Downloads (4 064)
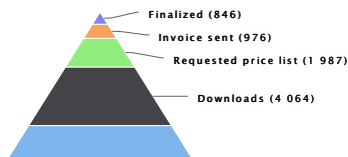
Pyramid chart

Height vs Weight
Polygon series in Highcharts

Target

Polygon series

Highcharts export server overview

Web client — **Web service / CLI** — **Command line client**

SaaS client (browser or script)
POST options in JSON
Rasterized image
PhantomJS
Command
Rasterized image
Script
SVG
Browser running Highcharts
POST SVG
Rasterized image
Batik

General drawing