

Wizdom graf webdele

Version 1.8.6

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1. Introduktion

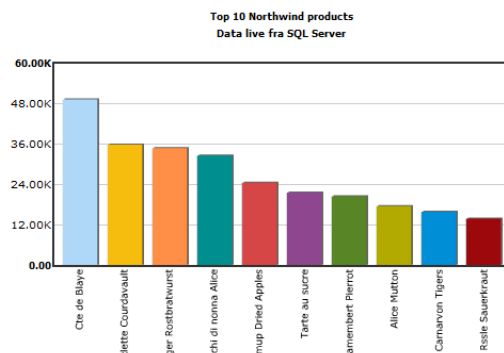
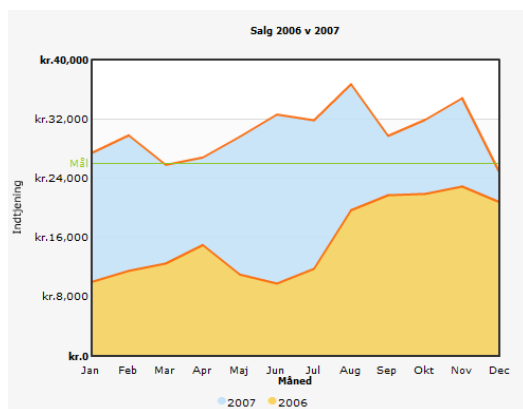
Wizdom indeholder en række graf webdele, der er designet til at gøre det enkelt at præsentere data grafisk. Graf webdelene omfatter fire forskellige webdele, der hver for sig er designet til at præsentere data fra følgende typer datakilder:

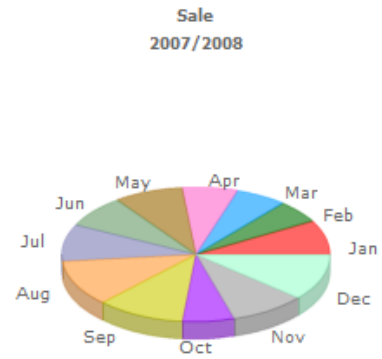
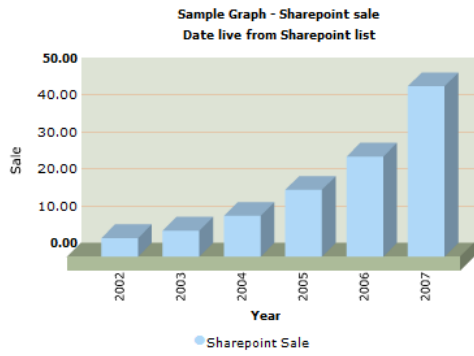
- SQL baserede databaser
- SharePoint listedata
- Data indtastet direkte via Webdele'ens egenskaber
- Andre datakilder

I dette tilfælde skal der udvikles en aspx-side der henter data og returnere disse i et XML-format.

Graf webdelene anvender Adobe Flash som underliggende teknologi, der sammen med 3. Parts produktet *FusionCharts Free* gør det enkelt at fremstille avancerede grafer.

Fire eksempler er vist nedenfor:





2. Fælles konfigurationsindstillinger

En række af konfigurationsindstillingerne er fælles for alle varianter af graf webdele. De beskrives enkeltvis nedenfor:

Graf type

Denne konfigurationsindstilling anvendes til at vælge, hvilken type graf der ønskes. Der er følgende valgmuligheder:

- Column3D
- Doughnut2D
- Line
- Column2D
- Pie3D
- Pie2D
- Bar2D
- Area2D
- Multi Set Line
- Multi Set Area2D
- MultiSet Bar2D
- Multi Set Column2D
- Multi Set Column2DLineDY
- Multi Set Column3D
- Multi Set Column3DLineDY
- Stacked Area
- Stacked Column 2D
- Stacked Column 3D

Hvis datakilden leverer mere end et sæt dataværdier skal man vælge en "Multi set" eller "Stacked" graf type.

Højde og Bredde

Disse felter angiver højde og bredde – i pixels - på det område hvor grafen vises.

Grafegenskaber

Dette felt kan benyttes til at styre layout for grafen idet der er mulighed for at angive egenskaber der understøttes af *FusionCharts*. En oversigt over disse findes som appendix til dette dokument (oversigten er kopieret fra dokumentationen til *FusionCharts*). Et eksempel på indholdet af "Grafegenskaber" er vist nedenfor:

```
caption='Webtops månedlige salg'  
  
subcaption='for året 2007/2008'  
  
xAxisName='Måned'  
  
yAxisMinValue='0'  
  
yAxisMaxValue='100000'  
  
yAxisName='Salg'  
  
numberPrefix='kr.'  
  
showNames='1'  
  
showValues='0'  
  
rotateNames='0'  
  
showColumnShadow='1'  
  
animation='0'  
  
showAlternateHGridColor='1'  
  
AlternateHGridColor='885904'  
  
divLineColor='ff5904'  
  
divLineAlpha='20'  
  
alternateHGridAlpha='5'  
  
canvasBorderColor='666666'  
  
baseFontColor='666666'
```

```
lineThickness='3'  
  
limitsDecimalPrecision='0'  
  
divLineDecimalPrecision='0'  
  
areaBgColor='b0b0d0'  
  
bgColor='f1f1f1'
```

Cache Timeout

Her kan angives, hvor længe data skal caches. Tiden angives i sekunder. Egenskaber er særlig velegnet, hvis det kræver betydelig tid og ressourcer at hente de data grafen skal vise.

Optional HTML Skabelon

Denne egenskab kan anvendes til at placere grafen sammen med yderligere HTML. Pladsholderen "`__GRAPH__`" angiver hvor i denne skabelon-HTML grafen skal indsættes.

3. Konfigurationsindstillinger – SQL data

Denne variant af graf webdelene har udover de fælles indstillinger, følgende konfigurationsindstillinger:

Connection string

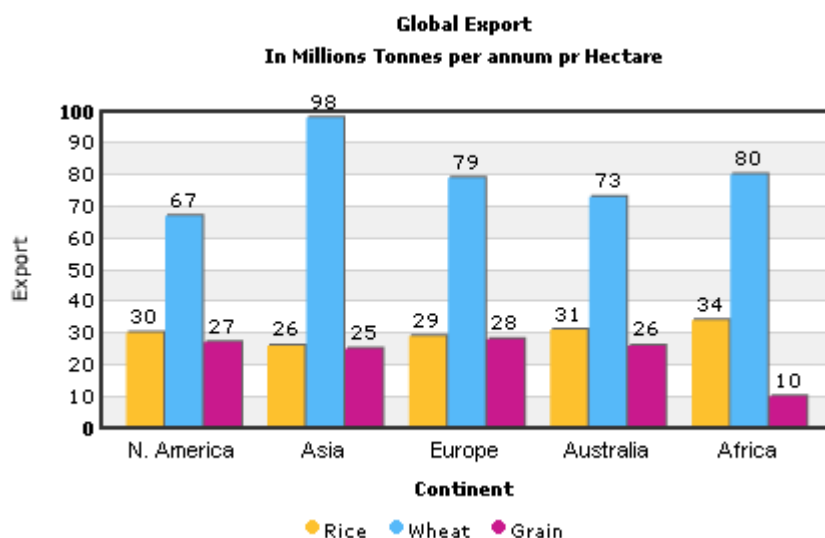
En "Connection String" til SQL data kilden, eksempelvis:

```
DATA SOURCE=(local);DATABASE=Northwind;USER ID=dbreader;PASSWORD=secret123;
```

SQL sætning

En SQL sætning der udvælger de ønskede data. Første udvalgte kolonne skal angive navnet på datakategorien (f.eks: "Jan", "Feb", "Mar", "Apr",...). Anden kolonne skal angive de tilhørende dataværdier. De følgende kolonner kan angive flere sæt dataværdier hvis der er behov for dette. Eksempel: Nedenstående resultatsæt kan generere nedenstående graf:

"N. America"	30	67	27
"Asia"	26	98	25
"Europa"	29	79	28
"Australia"	31	73	26
"Africa"	34	80	10



4. Konfigurationsindstillinger – Sharepoint list view

Denne variant af graf webdelene har udover de fælles indstillinger, følgende konfigurationsindstillinger:

Site URL

Den fulde URL til det Sharepoint site der indeholder den aktuelle liste.

Liste navn

Listen der indeholder de data der ønskes præsenteret som en graf.

View navn

Navnet på et "liste view", der udvælger de data der skal vises. Data benyttes på samme måde som beskrevet ovenfor for indstillingsparameteren "SQL sætning" .

5. Konfigurationsindstillinger – Direkte data

I denne variant af graf webdelene indtastes data direkte i en af webdelens indstillinger **Inline XML Data**. Formatet er det format, der er beskrevet i dokumentationen til FusionCharts Free: <http://www.fusioncharts.com/free/docs/>

Der kan benyttes enten *Single Series XML* eller *Multi Series XML*.

Note: Bemærk brugen af enkelt-qoute(') frem for anførselstegn("), dette er obligatorisk.

Eksempel Single Series ('color' er optionel):

```
<graph>

  <set name='Jan' value='27400' color='AFD8F8' />
  <set name='Feb' value='29800' color='F6BD0F' />
  <set name='Mar' value='25800' color='8BBA00' />
  <set name='Apr' value='26800' color='FF8E46' />
  <set name='May' value='29600' color='008E8E' />
  <set name='Jun' value='32600' color='D64646' />
  <set name='Jul' value='31800' color='8E468E' />
  <set name='Aug' value='36700' color='588526' />
  <set name='Sep' value='29700' color='B3AA00' />
  <set name='Oct' value='31900' color='008ED6' />
  <set name='Nov' value='34800' color='9D080D' />
  <set name='Dec' value='24800' color='A186BE' />

</graph>
```

Eksempel Multi Series:

```
<graph>

  <categories>
    <category name='Jan' />
    <category name='Feb' />
    <category name='Mar' />
    <category name='Apr' />
    <category name='May' />
    <category name='Jun' />
    <category name='Jul' />
  </categories>

</graph>
```

```
<category name='Aug' />
<category name='Sep' />
<category name='Oct' />
<category name='Nov' />
<category name='Dec' />
</categories>

<dataset seriesName='2006' color='c4e3f7' >
  <set value='27400' />
  <set value='29800' />
  <set value='25800' />
  <set value='26800' />
  <set value='29600' />
  <set value='32600' />
  <set value='31800' />
  <set value='36700' />
  <set value='29700' />
  <set value='31900' />
  <set value='34800' />
  <set value='24800' />
</dataset>

<dataset seriesName='2005' color='Fad35e' >
  <set value='10000' />
  <set value='11500' />
  <set value='12500' />
  <set value='15000' />
  <set value='11000' />
  <set value='9800' />
  <set value='11800' />
  <set value='19700' />
  <set value='21700' />
  <set value='21900' />
  <set value='22900' />
  <set value='20800' />
</dataset>

</graph>
```

6. Konfigurationsindstillinger – andre datakilder

Denne variant af graf webdelene henter data i XML-format via en specificeret URL. Disse data vil ofte være dynamisk genererede via en ASP.NET side eller lignende.

Ud over de fælles konfigurationsindstillinger findes indstillingsværdien:

URL til XML Data

Som navnet antyder, skal URL'en til de XML Data, der skal præsenteres, angives.

Dataformatet er *Multi series XML* som det er defineret i dokumentationen til *FusionCharts Free*, se forrige afsnit for et eksempel. Der findes yderligere to eksempler i kataloget `../aspx/misc/FusionCharts`:

- SimpleMonthDayDemo.aspx
- demochart.xml

Appendix: FusionCharts "<graph> properties"

Nedenstående er kopieret fra dokumentationen til FusionCharts Free:

Background Properties

- `bgColor="HexColorCode"` : This attribute sets the background color for the chart. You can set any hex color code as the value of this attribute. Remember that you DO NOT need to assign a "#" at the beginning of the hex color code. In fact, whenever you need to provide any hex color code in FusionCharts XML data document, you do not have to assign the # at the beginning.
- `bgAlpha="NumericalValue(0-100)"` : This attribute helps you set the alpha (transparency) of the graph. This is particularly useful when you need to load the chart in one of your Flash movies or when you want to set a background image (.swf) for the chart.
- `bgSWF="Path of SWF File"` : This attribute helps you load an external .swf file as a background for the chart.

Canvas Properties

- `canvasBgColor="HexColorCode"` : This attribute helps you set the background color of the canvas.
- `canvasBgAlpha="NumericalValue(0-100)"` : This attribute helps you set the alpha (transparency) of the canvas.
- `canvasBorderColor="HexColorCode"` : This attribute helps you set the border color of the canvas.
- `canvasBorderThickness="NumericalValue(0-100)"` : This attribute helps you set the border thickness (in pixels) of the canvas.

Chart and Axis Titles

- `caption="String"` : This attribute determines the caption of the chart that would appear at the top of the chart.
- `subCaption="String"` : Sub-caption of the chart
- `xAxisName="String"` : x-Axis text title (if the chart supports axis)
- `yAxisName="String"` : y-Axis text title (if the chart supports axis)

Chart Numerical Limits

- `yAxisMinValue="value"`: This attribute determines the lower limit of y-axis.
 - `yAxisMaxValue="value"` : This attribute determines the upper limit of y-axis.
- If you don't specify any of the above values, it is automatically calculated by FusionCharts based on the data provided by you.

Generic Properties

- `shownames="1/0"` : This attribute can have either of the two possible values: 1,0. It sets the configuration whether the x-axis values (for the data sets) will be displayed or not. By default, this attribute assumes the value 1, which means that the x-axis names will be displayed.
- `showValues="1/0"` : This attribute can have either of the two possible values: 1,0. It sets the configuration whether the data numerical values will be displayed along with the columns, bars, lines and the pies. By default, this attribute assumes the value 1, which means that the values will be displayed.
- `showLimits="1/0"` : Option whether to show/hide the chart limit textboxes.
- `rotateNames="1/0"` : Configuration that sets whether the category name text boxes would be rotated or not.
- `animation="1/0"` : This attribute sets whether the animation is to be played or whether the entire chart would be rendered at one go.
- `showLegend="1/0"` : This attribute sets whether the legend would be displayed at the bottom of the chart.
- `showColumnShadow="1/0"`: Whether the 2D shadow for the columns would be shown or not.

Font Properties

- `baseFont="FontName"` : This attribute sets the base font family of the chart font which lies on the canvas i.e., all the values and the names in the chart which lie on the canvas will be displayed using the font name provided here.
- `baseFontSize="FontSize"` : This attribute sets the base font size of the chart i.e., all the values and the names in the chart which lie on the canvas will be displayed using the font size provided here.
- `baseFontColor="HexColorCode"` : This attribute sets the base font color of the chart i.e., all the values and the names in the chart which lie on the canvas will be displayed using the font color provided here.
- `outCnvBaseFont = "FontName"` : This attribute sets the base font family of the chart font which lies outside the canvas i.e., all the values and the names in the chart which lie outside the canvas will be displayed using the font name provided here.
- `outCnvBaseFontSize="FontSize"` : This attribute sets the base font size of the chart i.e., all the values and the names in the chart which lie outside the canvas will be displayed using the font size provided here.
- `outCnvBaseFontColor="HexColorCode"`: This attribute sets the base font color of the chart i.e., all the values and the names in the chart which lie outside the canvas will be displayed using the font color provided here.

Number Formatting Options

- `numberPrefix="$"` : Using this attribute, you could add prefix to all the numbers visible on the graph. For example, to represent all dollars figure on the chart, you could specify this attribute to '\$' to show like \$40000, \$50000.

- `numberSuffix="p.a"` : Using this attribute, you could add prefix to all the numbers visible on the graph. For example, to represent all figure quantified as per annum on the chart, you could specify this attribute to `'/a'` to show like 40000/a, 50000/a.

To use special characters for `numberPrefix` or `numberSuffix`, you'll need to URL Encode them. That is, suppose you wish to have `numberSuffix` as `%` (like 30%), you'll need to specify it as under:

`numberSuffix='%25'`

- `formatNumber="1/0"` : This configuration determines whether the numbers displayed on the chart will be formatted using commas, e.g., 40,000 if `formatNumber='1'` and 40000 if `formatNumber='0'`
- `formatNumberScale="1/0"` : Configuration whether to add K (thousands) and M (millions) to a number after truncating and rounding it - e.g., if `formatNumberScale` is set to 1, 10434 would become 1.04K (with `decimalPrecision` set to 2 places). Same with numbers in millions - a M will added at the end.
- `decimalSeparator="."` : This option helps you specify the character to be used as the decimal separator in a number.
- `thousandSeparator=","` : This option helps you specify the character to be used as the thousands separator in a number.
- `decimalPrecision="2"` : Number of decimal places to which all numbers on the chart would be rounded to.
- `divLineDecimalPrecision="2"` : Number of decimal places to which all divisional line (horizontal) values on the chart would be rounded to.
- `limitsDecimalPrecision="2"` : Number of decimal places to which upper and lower limit values on the chart would be rounded to.

Zero Plane

The zero plane is a simple plane (line) that signifies the 0 position on the chart. If there are no negative numbers on the chart, you won't see a visible zero plane.

- `zeroPlaneThickness="Numeric Value"` : Thickness (in pixels) of the line indicating the zero plane.
- `zeroPlaneColor="Hex Code"` : The intended color for the zero plane.
- `zeroPlaneAlpha="Numerical Value 0-100"` : The intended transparency for the zero plane.

Divisional Lines (Horizontal)

Divisional Lines are horizontal or vertical lines running through the canvas. Each divisional line signifies a smaller unit of the entire axis thus aiding the users in interpreting the chart.

- `numdivlines="NumericalValue"` : This attribute sets the number of divisional lines to be drawn.
- `divlinecolor="HexColorCode"` : The color of grid divisional line.
- `divLineThickness="NumericalValue"` : Thickness (in pixels) of the grid divisional line.
- `divLineAlpha="NumericalValue0-100"` : Alpha (transparency) of the grid divisional line.
- `showDivLineValue="1/0"` : Option to show/hide the textual value of the divisional line.
- `showAlternateHGridColor="1/0"` : Option on whether to show alternate colored horizontal grid bands.
- `alternateHGridColor="HexColorCode"` : Color of the alternate horizontal grid bands.
- `alternateHGridAlpha="NumericalValue0-100"` : Alpha (transparency) of the alternate horizontal grid bands.

Divisional Lines (Vertical)

- `numVDivLines="NumericalValue"` : Sets the number of vertical divisional lines to be drawn.
- `VDivlinecolor="HexColorCode"` : Color of vertical grid divisional line.
- `VDivLineThickness="NumericalValue"` : Thickness (in pixels) of the line
- `VDivLineAlpha="NumericalValue0-100"` : Alpha (transparency) of the line.
- `showAlternateVGridColor="1/0"` : Option on whether to show alternate colored vertical grid bands.
- `alternateVGridColor="HexColorCode"` : Color of the alternate vertical grid bands.
- `alternateVGridAlpha="NumericalValue0-100"` : Alpha (transparency) of the alternate vertical grid bands.

Hover Caption Properties

The hover caption is the tool tip which shows up when the user moves his mouse over a particular data item (column, line, pie, bar etc.).

- `showhovercap="1/0"` : Option whether to show/hide hover caption box.
- `hoverCapBgColor="HexColorCode"` : Background color of the hover caption box.
- `hoverCapBorderColor="HexColorCode"` : Border color of the hover caption box.
- `hoverCapSepChar="Char"` : The character specified as the value of this attribute separates the name and value displayed in the hover caption box.

Chart Margins

Chart Margins refers to the empty space left on the top, bottom, left and right of the chart. That means, FusionCharts would leave that much amount of empty space on the chart, before it starts plotting.

- `chartLeftMargin="Numerical Value (in pixels)"` : Space to be left unplotted on the left side of the chart.
- `chartRightMargin="Numerical Value (in pixels)"` : Empty space to be left on the right side of the chart
- `chartTopMargin="Numerical Value (in pixels)"` : Empty space to be left on the top of the chart.
- `chartBottomMargin="Numerical Value (in pixels)"` : Empty space to be left at the bottom of the chart.