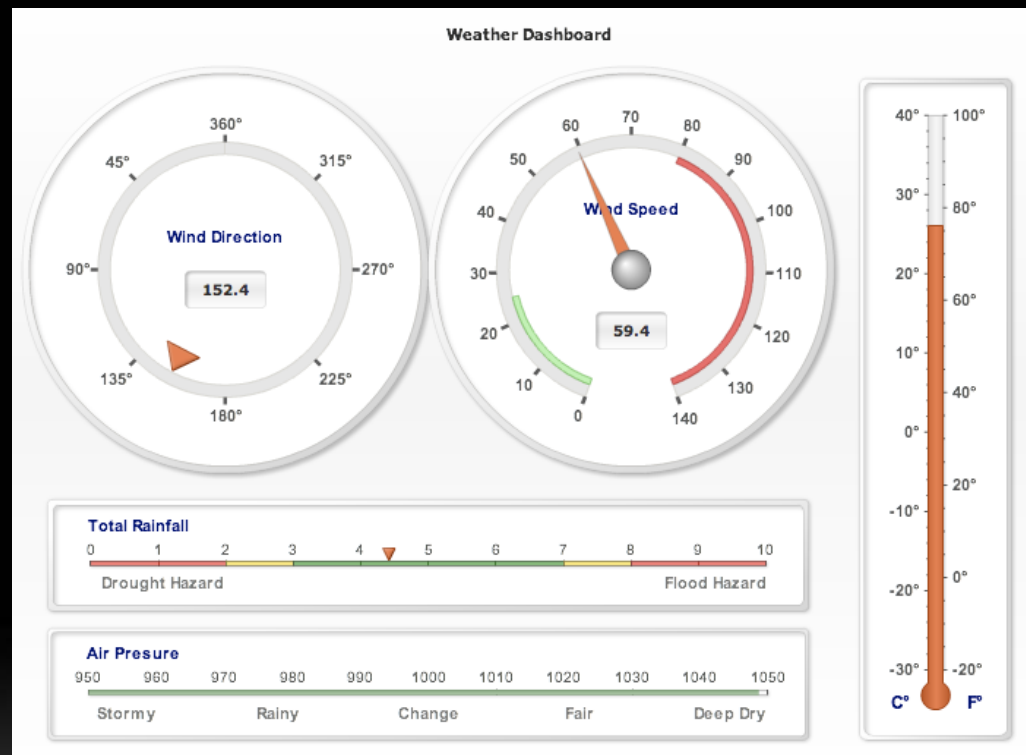


Oracle Open World 2008

Advanced Charting in Application Express



- Co-founder of Apex Evangelists
- Used Oracle since version 7
- Oracle Consultant for over 4 years
- Vice President of the IOUG APEX SIG
- Creator of the 'famous' WC 2006 app and DG Tournament
- 'Dimitri.Gielis@AE' in the Application Express forums
- Presenter at IOUG, ODTUG, OOW, UKOUG, ...
- OCP 8i/9i/10g





DG Tournament

This is the follow-up application of the famous WC 2006 application.

In May 2006 I created the World Cup 2006 application. The goal was to make an application entirely in [APEX](#) (Oracle Application Express). In the beginning the application only gave an overview of the scores and the ranking of the teams. Soon the application got interactive: it allowed betting on the games and having discussions through the shoutbox. An other feature was the utilization of Webservices to show some more info about the World Cup. More than 400 people played with us. At "peak"-moments we had over 10.000 hits an hour (after the mention on [Tom Kyte's Blog](#))!

I got a lot of positive reactions, even the APEX development team of Oracle contacted me. It kept me motivated to make this follow-up application...

In May 2008 I updated the application to work with the latest version of Oracle Application Express. The site is now ready to bet on the games of Euro 2008.

You may put your suggestions and remarks in the ShoutBox or on my [Blog](#).

Enjoy this application,
[Dimitri Giellis](#)

Provided for you by



Games due to play	
	World Cup 2010

Games in progress	
	UEFA Euro 2008

Games played	
	Roland Garros 2006
	World Cup 2006
	UEFA Champions League 2006-2007

Video of the day



Euro 2008 news



APEX BLOG AGGREGATOR

by Apex Evangelists

[Blog Posts](#)[Statistics](#)[Feedback](#)[About](#)[Login](#)

Quick Message: If you get an error by clicking on the tab from this page, please click [here](#).

It will bring you to the About page from which you can navigate to all other pages. I'm currently looking into the problem, but for now this is the workaround.

Search Interactive ☐ Between and Apex-only ☐ [GO](#)

Blog Selection [➔](#)

Michaels first post from Collab 08

★★★★★

[Apex Blog](#)

16-APR-2008 15:45

I'm passionate about APEX and also want to start some blog posts.

[Show Comments \(0\)](#)

Oracle Database 11g Release 2 is coming

★★★★★

[Pawel Barut](#)

15-APR-2008 22:52

Written by [Pawel Barut](#)

I've just received Oracle Partner Network newsletter with invitation to Oracle Database 11g Release 2 Roadshow. On this Roadshow Oracle is also going to find partners for beta testing. My guess: This year Oracle 11g R2 will be the main topic on Oracle Open World.

Schedule of Roadshow in Europe:

- May 12, 2008: UK, Reading
- May 13, 2008: Benelux, De Meern
- May 14, 2008: Germany, Muenchen
- May 15, 2008: Italy, Milan
- May 16, 2008: Turkey, Istanbul
- May 19, 2008: Czech Republic, Prague

Advertisement Space



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- Who's using APEX 3.1?
- Who knows charts in APEX?
- Goals
 - Explanation of Charts in APEX
- Non-Goals
 - Know all types of charts



- Why do charting
- How to create and customize a chart in APEX
- Insights into APEX charts
- Live demos
- Charting beyond APEX

Apex Evangelists

Oracle Specialists

PRICES			
Date	Open	High	Lo
15-Apr-08	19.95	20.24	1
14-Apr-08	19.83	20.15	1
11-Apr-08	20.09	20.14	1
10-Apr-08	20.19	20.80	2
9-Apr-08	19.92	20.26	1
8-Apr-08	20.03	20.15	1
7-Apr-08	20.45	20.56	2
4-Apr-08	20.61	20.69	2
3-Apr-08	20.40	20.70	2
2-Apr-08	20.41	20.76	2
1-Apr-08	19.91	20.42	1
31-Mar-08	19.48	19.63	1
28-Mar-08	19.55	19.86	1
27-Mar-08	19.45	19.70	1
26-Mar-08	21.29	21.30	2
25-Mar-08	21.03	21.16	2
24-Mar-08	20.42	20.91	2
20-Mar-08	19.86	20.17	1
19-Mar-08	20.26	20.49	1
18-Mar-08	19.64	20.05	1
17-Mar-08	18.93	19.49	1
14-Mar-08	20.01	20.05	1
13-Mar-08	19.57	19.99	1
12-Mar-08	19.58	20.17	1

www.CartoonStock.com

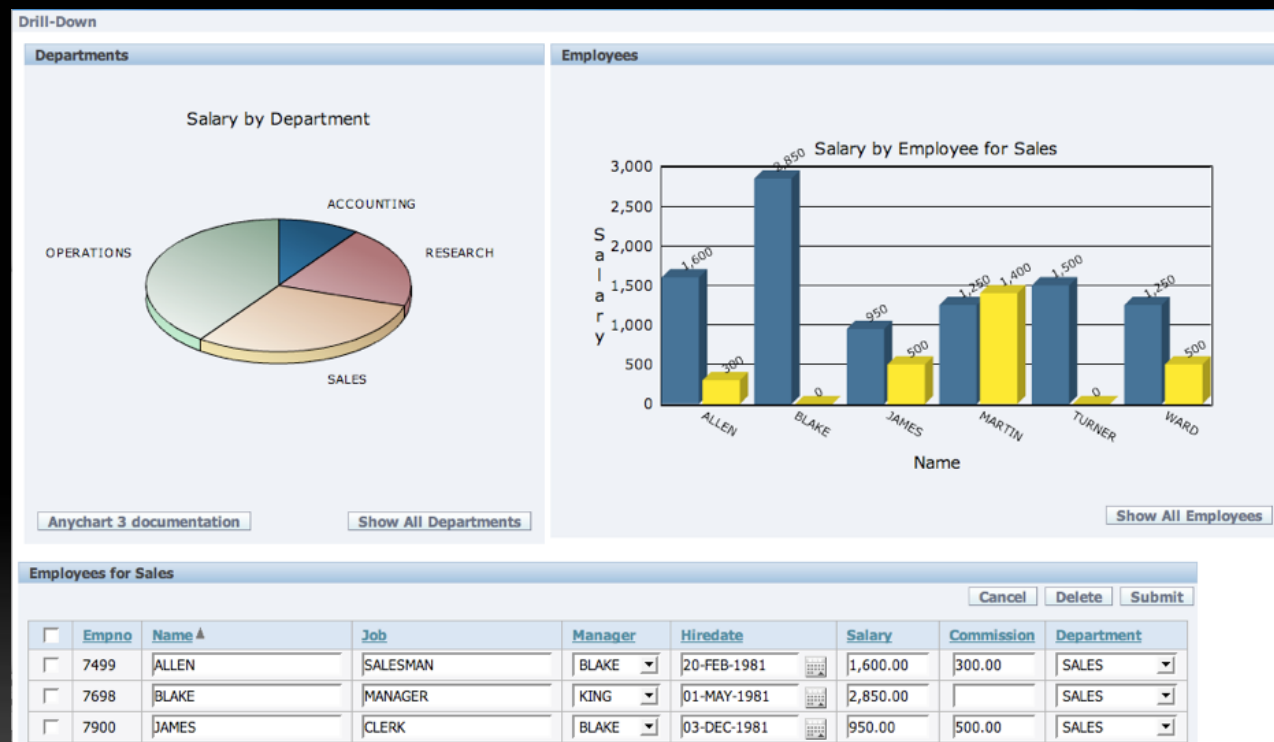


"I like your attitude, Brigley."



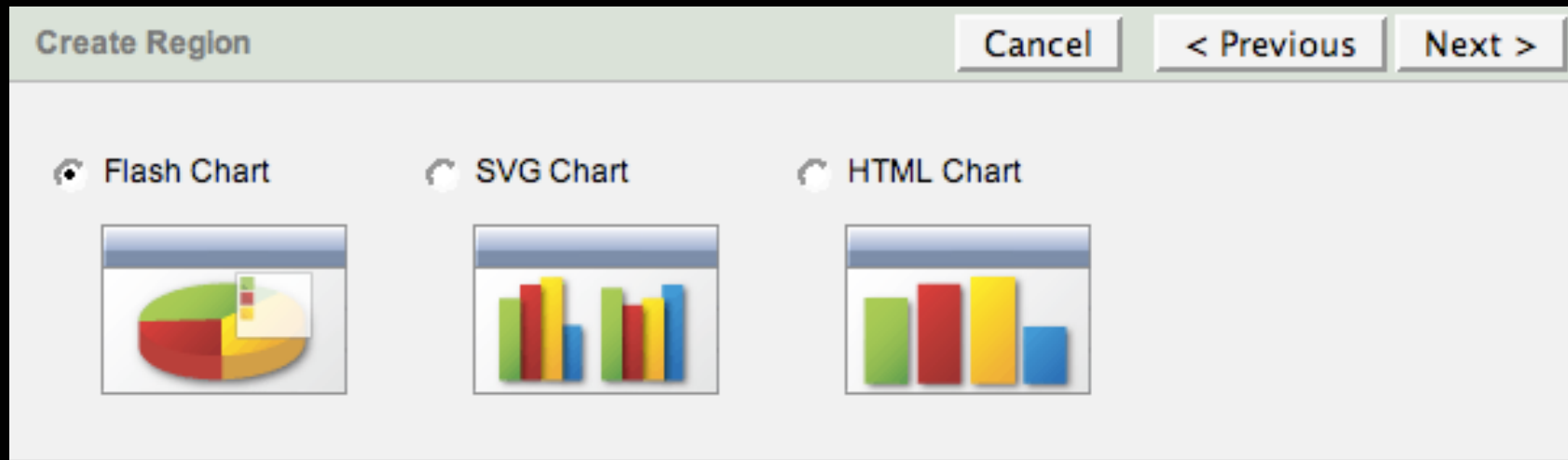
Why using Charts?

- More and more people prefer to have a graphical representation about their data
- A picture shows more than thousand words

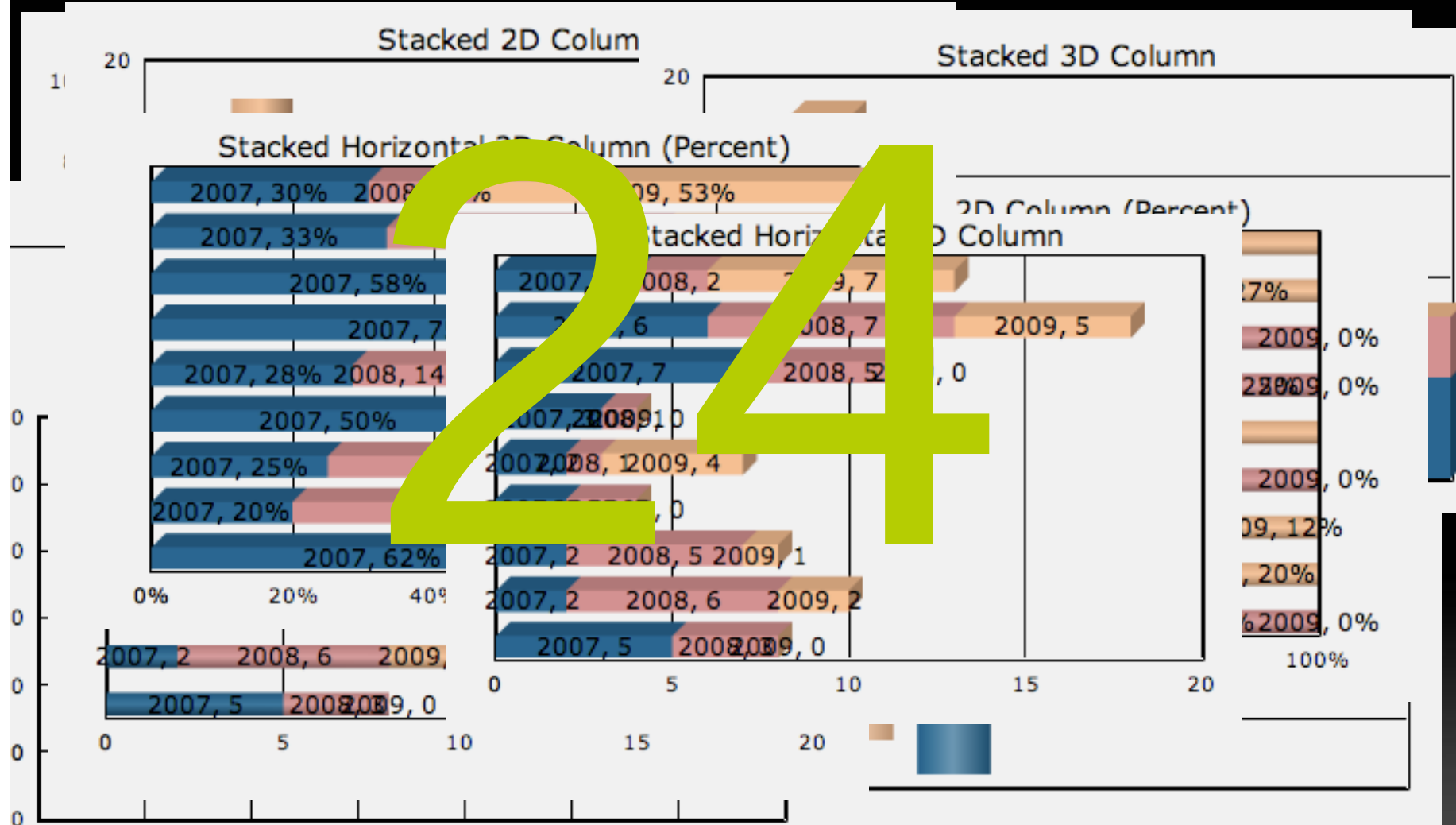


HOW

Create a Flash Chart region

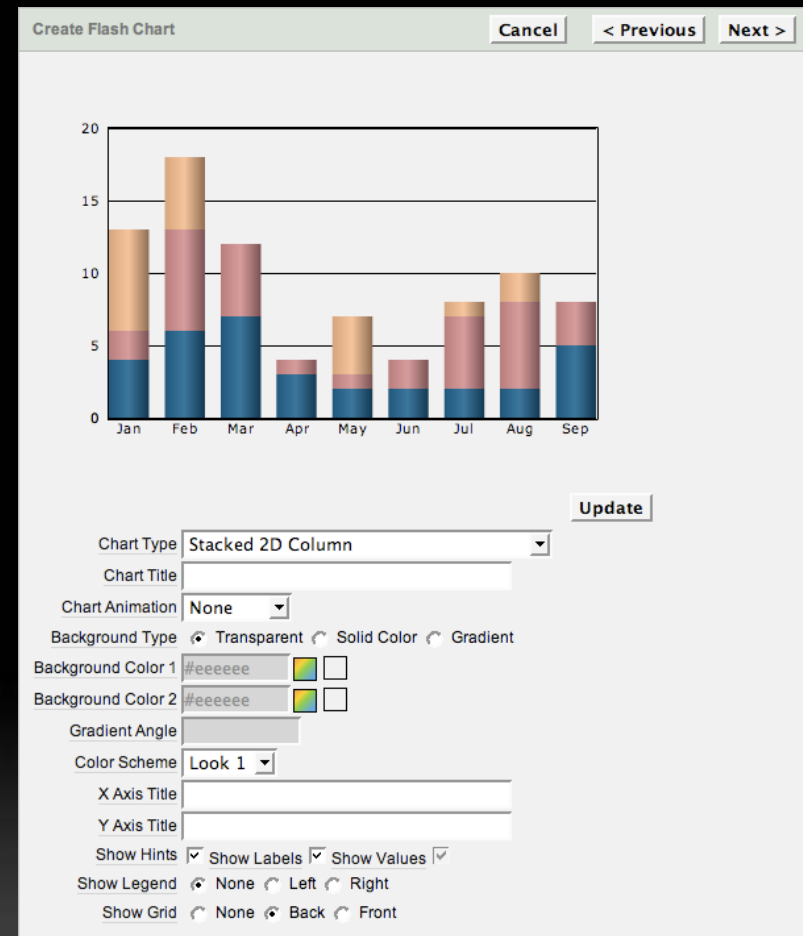


Specify the chart type... a lot of choice!



Customize the chart with

- a title
- an animation
- color
- X and Y axis titles
- hints, labels and values
- a legend and a grid



Add a Series to get data in the chart:

- SQL Query
- PL/SQL function returning a SQL Query

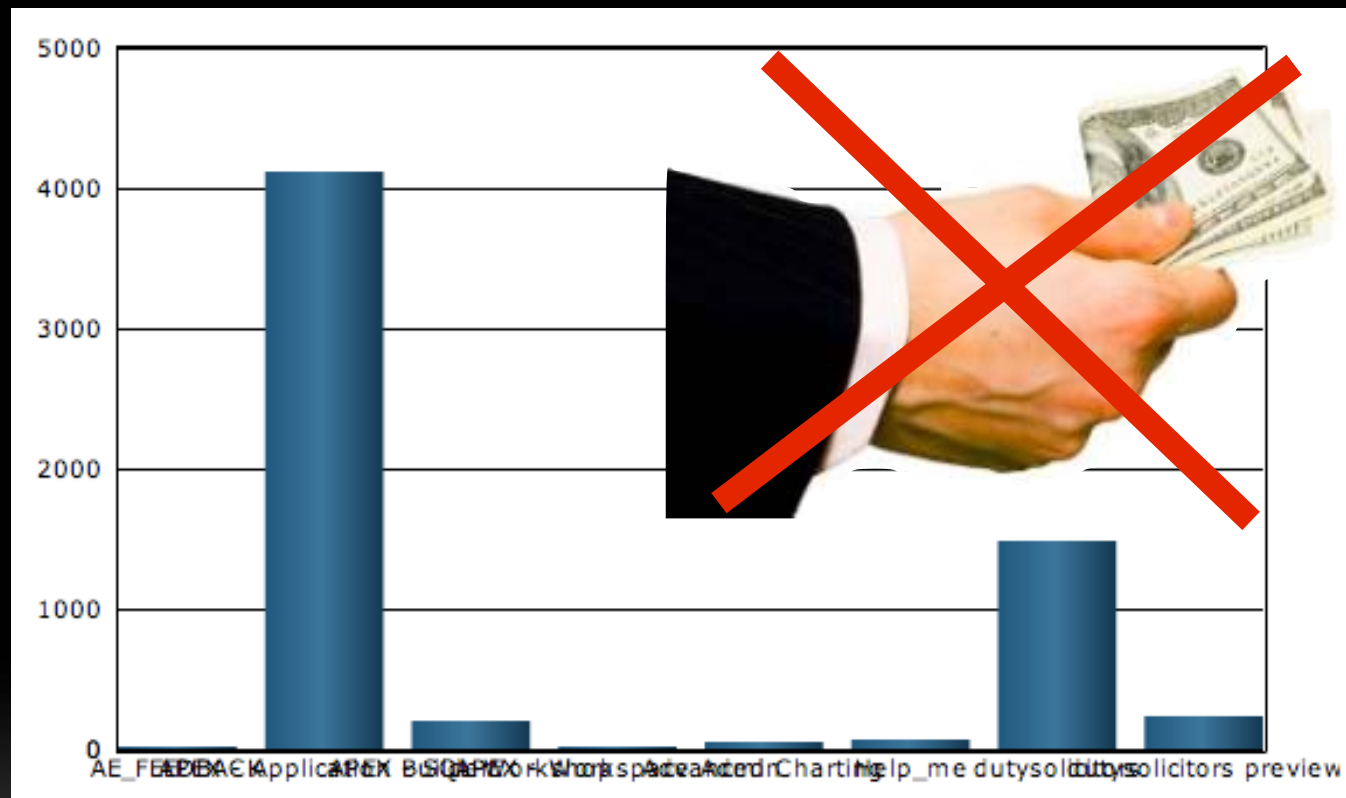
The screenshot shows the 'Create Region' dialog box in Oracle APEX. The title bar includes 'Create Region', 'Cancel', '< Previous', 'Next >', and 'Create Region'. The main content area shows 'Page: 5 - Chart 5' and 'Region Title: e'. A red asterisk indicates a required field: '* Enter SQL Query or PL/SQL function returning a SQL Query:'. Below this is a text area containing the following SQL query:

```
select null as link, application_name as label, count(*) as clicks
from apex_workspace_activity_log
group by application_name
order by application_name
```

Below the text area is a 'Build Query' button. Further down is a section for 'When No Data Found Message' with the text 'No data found.'.

At the bottom, there are two expandable sections: 'Chart Query Example for Stacked 2D Column' and 'Items'.

Run the page



Live Demo

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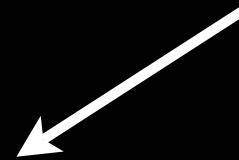
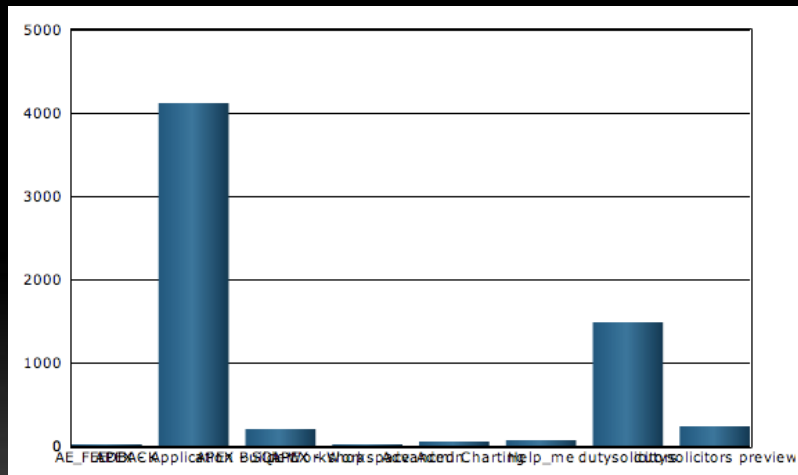
Charts in APEX

- Based on Anychart 3
- Anychart 4 in Interactive Reports (APEX 3.1)

Remark: Anychart 5 is already out

Charts in APEX

- Exists out of 2 parts:
 - swf-file (Flash file)
 - data in xml format



```

- <root>
- <type>
- <chart type="Stacked 2DColumn" minimum_value="0" maximum_value="5000">
- <animation enabled="no"/>
- <hints auto_size="yes">
- <text{<NAME>, {<VALUE>}</text>
- <font type="Verdana" size="10" color="0x"/>
- </hints>
- <names show="no"/>
- <values show="no" prefix="" postfix="" decimal_separator="." decimal_places="0"/>
- <arguments show="no"/>
- <column_chart column_space="3" block_space="12">
- <border enabled="no">
- <block_names enabled="yes" placement="chart" position="bottom">
- <font type="Verdana" size="10" color="0x"/>
- </block_names>
- <background type="gradient">
- + <alpha></alpha>
- + <ratio></ratio>
- </background>
- </column_chart>
- </chart>
- <workspace>
- <background enabled="yes" type="solid" color="0xfffff" alpha="0"/>
- <base_area enabled="no"/>
- <chart_area enabled="yes" x="60" y="50" width="490" height="300" deep="0">
- <background enabled="no">
- <border enabled="yes" size="1"/>
- </chart_area>
- <grid>
- <values lines_step="1000">
- <captions>
- <font type="Verdana" size="10" color="0x"/>
- </captions>
- </values>
- </grid>
- </workspace>
- <legend enabled="no"/>
- </type>
- <data>
- <block name="AE_FEEDBACK">
- <set name="Clicks" value="23" color="0x003381">
- + <background type="gradient"></background>
- </set>
- </block>

```

Understanding the code (swf-file in HTML)

```
<object classid="clsid:D27CDB6E-AE6D-11cf-96B8-444553540000"
  codebase="http://download.macromedia.com/pub/shockwave/cabs/flash/swflash.cab#version=6,0,0,0"
  width="600"
  height="400"
  id="c805338521098862158"
  align="">
  <param name="movie" value="/i/flashchart/Stacked2DColumn.swf?XMLFile=http://apex-evangelists.com/pls/apex/apex_util.flash?
p=1100:5:121584562325720:FLOW_FLASH_CHART_R805338521098862158_en-us">
  <param name="quality" value="high">
  <param name="allowScriptAccess" value="sameDomain">
  <param name="allowNetworking" value="all">
  <param name="scale" value="noscale">
  <param name="wmode" value="transparent">
  <param name="FlashVars" value="waiting=Loading data. Please wait.&loading=Loading data...">
  <embed src="/i/flashchart/Stacked2DColumn.swf?XMLFile=http://apex-evangelists.com/pls/apex/
apex_util.flash?p=1100:5:121584562325720:FLOW_FLASH_CHART_R805338521098862158_en-us"
    quality="high"
    width="600"
    height="400"
    name="c805338521098862158"
    scale="noscale"
    align=""
    allowScriptAccess="sameDomain"
    allowNetworking="all"
    type="application/x-shockwave-flash"
    pluginspage="http://www.macromedia.com/go/getflashplayer"
    wmode="transparent"
    FlashVars="waiting=Loading data. Please wait.&loading=Loading data...">
  </embed>
</object>
<script type="text/javascript" language="javascript">
function chart_r805338521098862158_InitRefresh(pNow) {
  setTimeout("chart_r805338521098862158_InitRefresh(true)",10000);
  if (pNow){apex.RefreshChart(5, '805338521098862158', 'en-us');}
```

Understanding the code (xml data)



```
- <root>
- <type>
- <chart type="Stacked 2DColumn" minimum_value="0" maximum_value="5000">
  <animation enabled="no"/>
  - <hints auto_size="yes">
    <text>{NAME}, {VALUE}</text>
    <font type="Verdana" size="10" color="0x"/>
  </hints>
  <names show="no"/>
  <values show="no" prefix="" postfix="" decimal_separator="." decimal_places="0"/>
  <arguments show="no"/>
  - <column_chart column_space="3" block_space="12">
    <border enabled="no"/>
    - <block_names enabled="yes" placement="chart" position="bottom">
      <font type="Verdana" size="10" color="0x"/>
    </block_names>
    - <background type="gradient">
      + <alphas></alphas>
      + <ratios></ratios>
    </background>
  </column_chart>
</chart>
- <workspace>
  <background enabled="yes" type="solid" color="0xffffffff" alpha="0"/>
  <base_area enabled="no"/>
  - <chart_area enabled="yes" x="60" y="50" width="490" height="300" deep="0">
    <background enabled="no"/>
    <border enabled="yes" size="1"/>
  </chart_area>
  - <grid>
    - <values lines_step="1000">
      - <captions>
        <font type="Verdana" size="10" color="0x"/>
      </captions>
    </values>
  </grid>
</workspace>
<legend enabled="no"/>
</type>
- <data>
  - <block name="AE_FEEDBACK">
    - <set name="Clicks" value="23" color="0x005381">
      + <background type="gradient"></background>
    </set>
  </block>
```

To see the xml data

- Go to url:

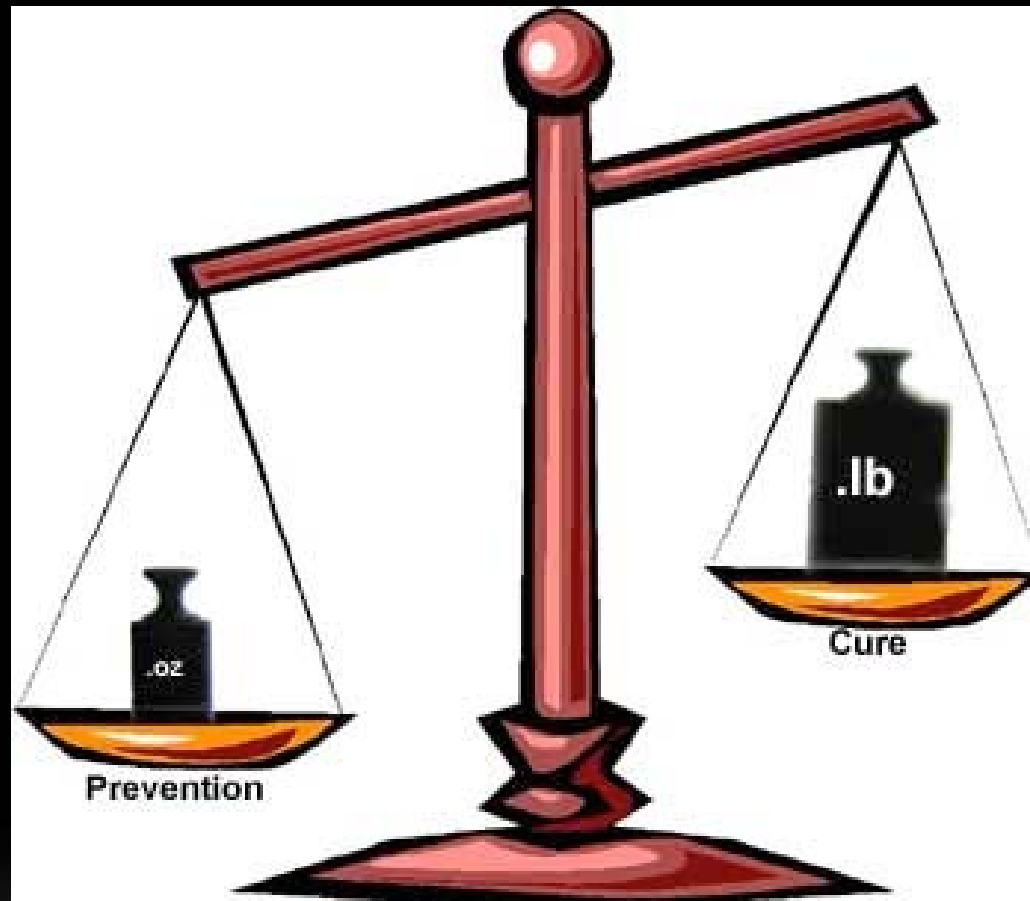
http://host/pls/apex/apex_util.flash?p=APP_ID:PAGE:SESSION:FLOW_FLASH_CHART_R..._en-us

- XML tree exists out of
 - **Type**: describes the chart type and how the chart needs to look like inside
 - **Data**: contains blocks of data that will be used to draw the chart
- **Tip**: A complete XML reference for the Flash Charting Component can be found on the Anychart website

Live Demo

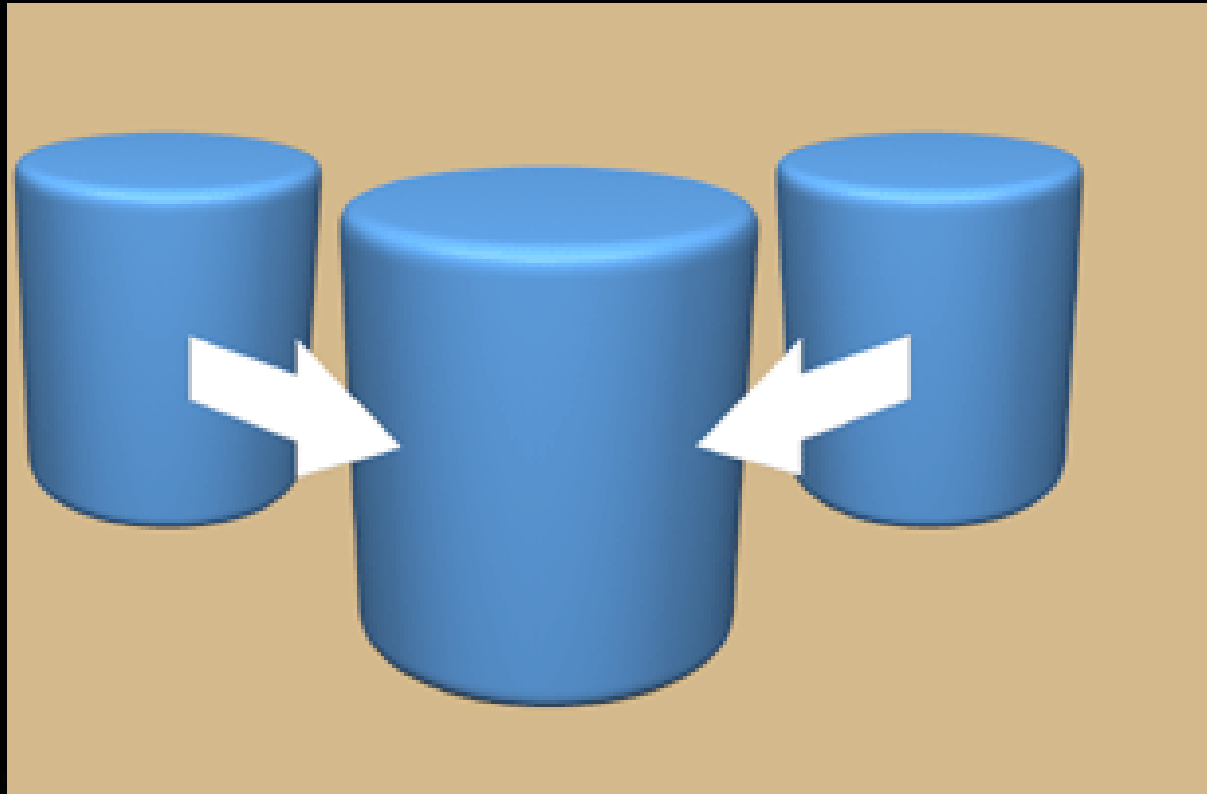






Maximum
Minimum
Dynamic

Multiple series into one





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Make it more secure



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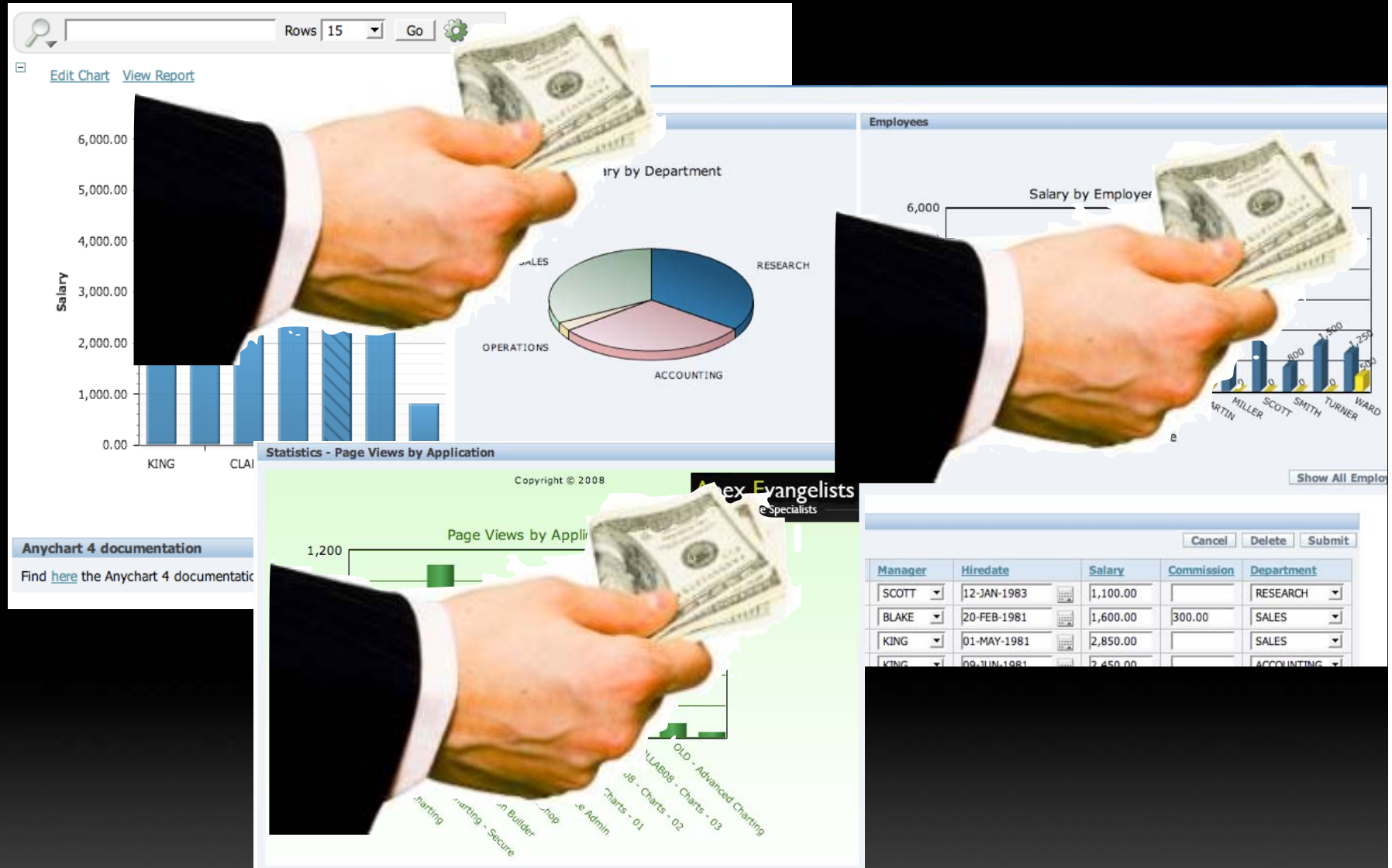
Ask any question



Live Demo

- Make a drill-down chart and report
- Adapt the scale (max, min, dynamical)
- Change multiple series into one
- Add a copyright text and include a logo
- Make it more secure
- Ask any question

Getting more out of Charts



There're also other 3rd party charting facilities

- Anychart / AnyMap / AnyGantt
- Fusion Charts / Fusion Gadgets
- Maani XML/SWF Charts
- Google Maps (**demo** in DG Tournament)

First public announcement...

Apex Evangelists will provide
an upgrade kit to Anychart
version 5 for APEX 3.1

- How is Anychart integrated into Oracle Application Express
- How to create a Flash chart in APEX
- How to enhance it
- How to get more out of the charting

Q&A

- Please hand in Evaluation Form
 - Session
 - #xxx
 - Speaker
 - Dimitri Gielis
 - Title
 - Advanced Charting in APEX
 - Blog & Website
 - <http://dgielis.blogspot.com>

- More information

- Websites

- Oracle Application Express Homepage: <http://apex.oracle.com>
 - Anychart website: <http://www.anychart.com/home/>
 - Fusion Charts: <http://www.fusioncharts.com/>
 - Fusion Gadgets: <http://www.fusioncharts.com/gadgets/Gallery.asp>
 - Maani XML/SWF Charts: http://www.maani.us/xml_charts/
 - Google Maps: <http://maps.google.com>

- Email

- dimitri.gielis@apex-evangelists.com

- Blog

- <http://dgielis.blogspot.com>

- Apex Evangelists (AE)

- <http://www.apex-evangelists.com>