

Oracle Open World 2009

Interactive Dashboards in APEX



- Co-founder of Apex Evangelists
- Oracle Consultant for over 4 years
- Vice President of the IOUG APEX SIG
- 'Dimitri.Gielis@AE' in the Application Express forums
- Presenter at IOUG, ODTUG, OOW, UKOUG, ...
- OCP 8i/9i/10g
- Oracle ACE Director
- Named "APEX Developer of the Year 2009"
by Oracle Magazine



- Who has less than 1 year APEX experience?
- Who never created charts in APEX?



- Non-Goals
 - Show you every possible interactive dashboard
- Goal
 - Give an insight into Anychart 5 and APEX so you know how to create any dashboard you like

- Why do you want to create Interactive Dashboards?
- Existing Charts in APEX
- Different components of a dashboard
- Real example in APEX
- Q&A

Why?







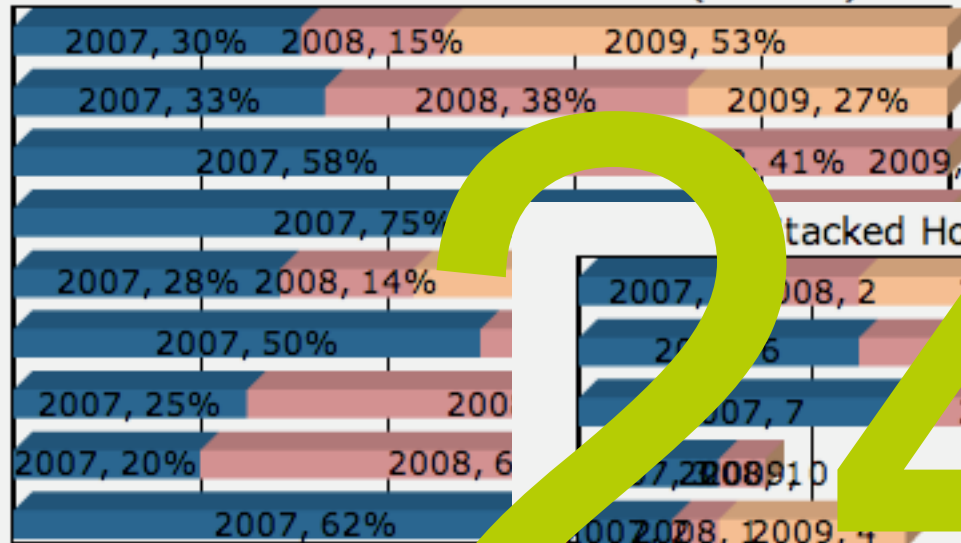




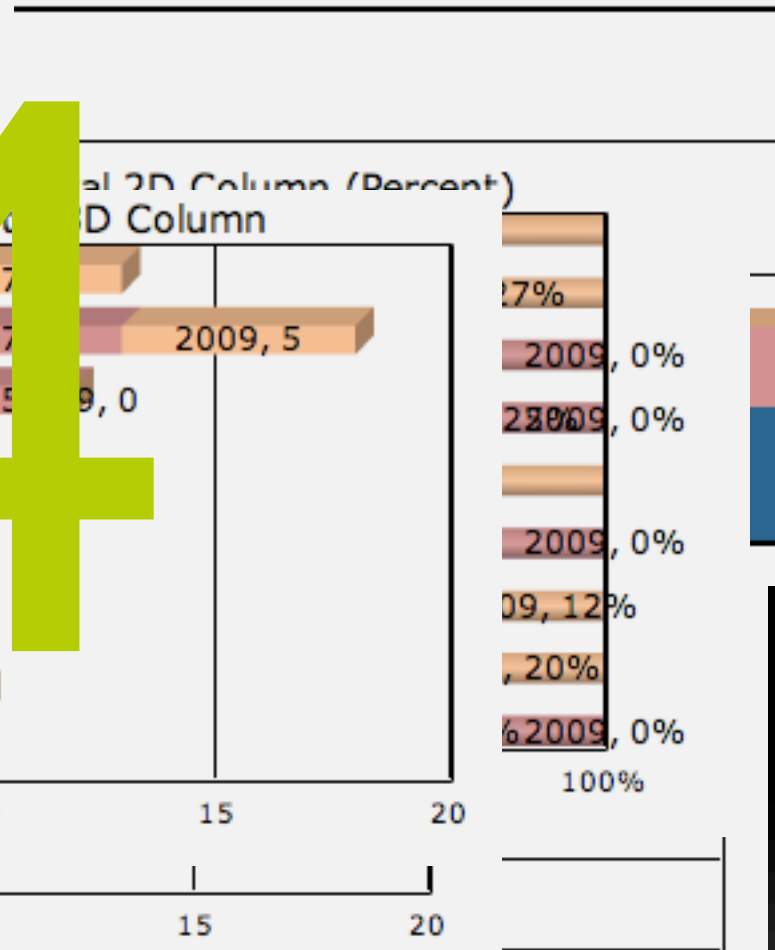


Existing Charts in APEX 3.2

Stacked Horizontal 3D Column (Percent)



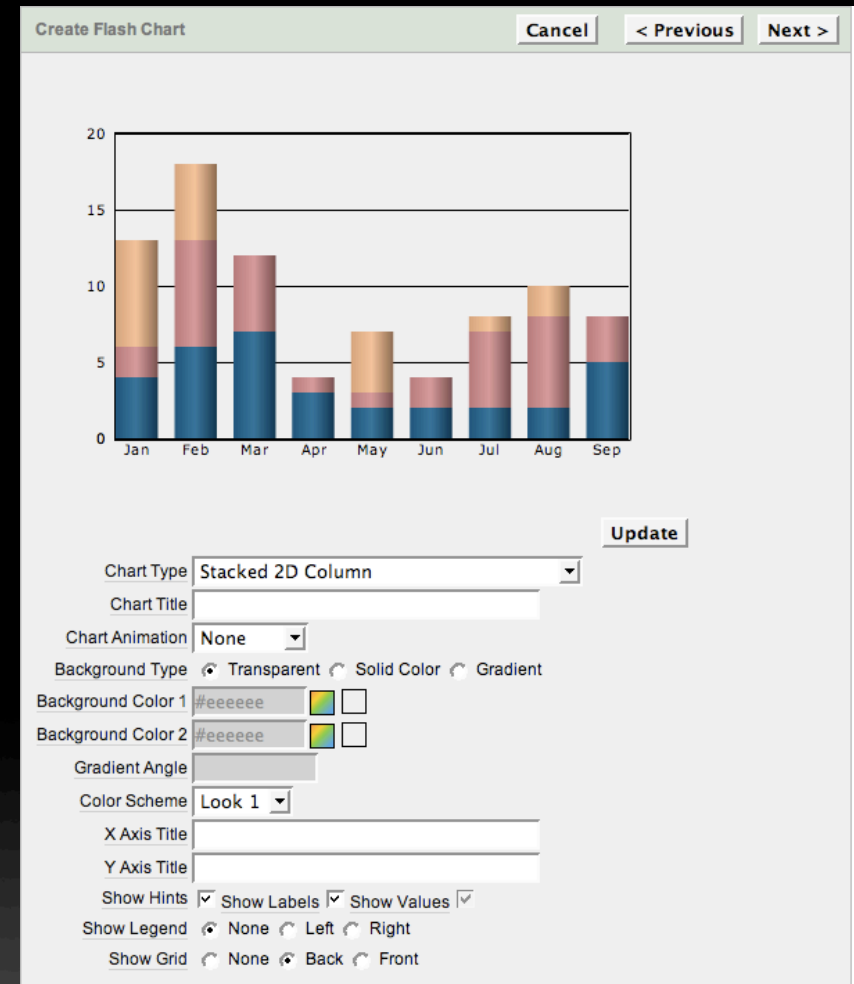
Stacked 3D Column



24

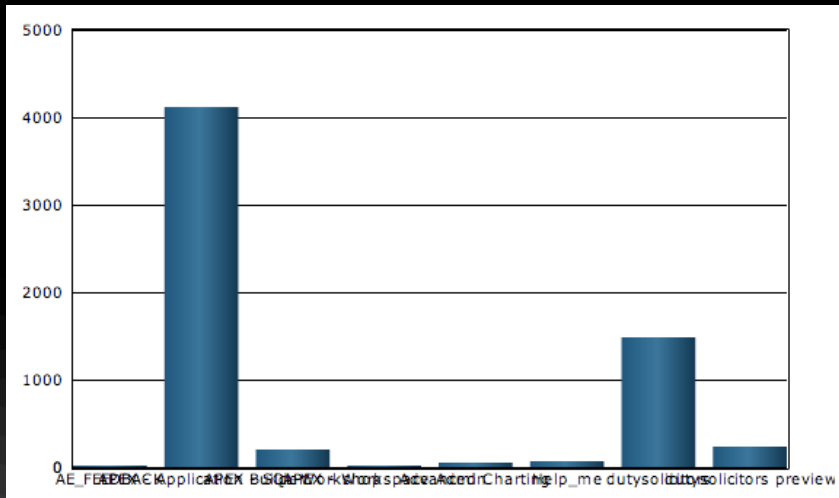
Creating a Flash chart in APEX 3.x

- Based on Anychart 3.3
- Select the Type
- Customize
(title, animation, color, ...)
- Tell which data
(multiple queries/series)



Charts in APEX

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



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<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="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="0x005381">
      + <background type="gradient"></background>
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  - </block>
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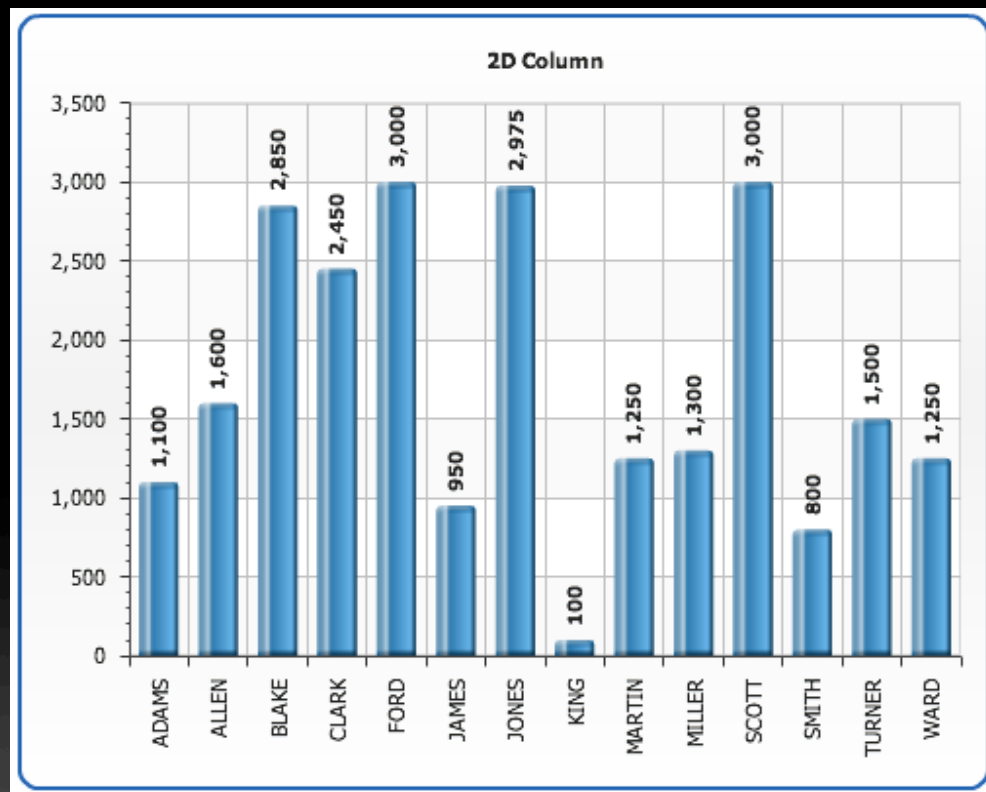
Live Demo

- Build existing chart

Nicer Charts

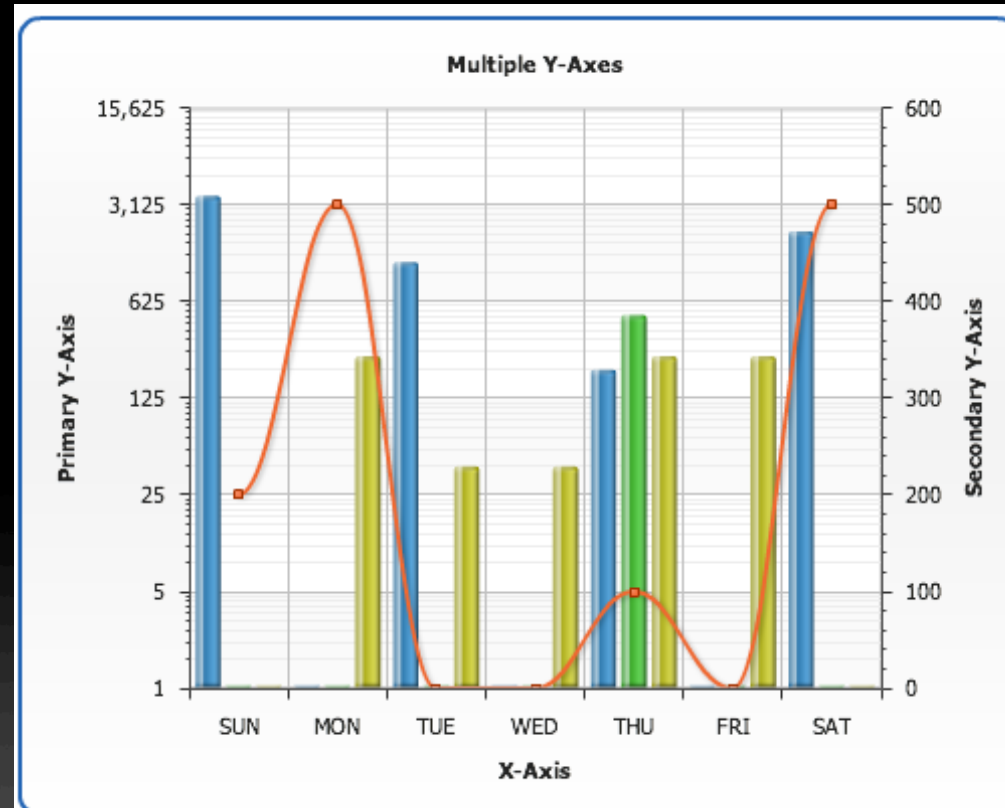
APEX 4.0 will include Anychart 5

- More charts
- More customisations
- More possibilities
- Better Look & Feel



APEX 3.x with the Anychart Integration Kit

- More charts
- More customisations
- More possibilities
- Better Look & Feel



Anymchart Integration Kit for APEX 3.x



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Charts

Maps

Gauges

Dashboards

Gantt

Welcome to the Anymchart Integration Kit for APEX 3.x

[Oracle Application Express](#) 3.x has the ability to create Flash charts. These charts are based on Anymchart 3.3. The look and feel is fine, but not great. There are also some problems to print the chart and there is no ability to create combined types of charts for ex a bar and a line chart in one graph.

This package provides you with the ability to upgrade the version of Anymchart to version 5 in APEX. The look and feel of this version is much nicer and most of the problems that the charts in APEX have are fixed.

Anymchart provides some nice charting solutions for the typical charts you know, but next to that they also have maps, gauges and gantt charts. On the left you can navigate to the different solutions. For the charts we show how a chart looks like in APEX out-of-the-box and next to it, how it looks like with our integration kit. On the left the standard chart in APEX is shown, in the middle how it looks like with the integration kit without changing the code and on the right we changed the xml a bit to make the chart a bit nicer.

We strongly believe that making use of the power of APEX and the nice charting facilities of Anymchart can help your applications look even more professional and attractive.

This integration kit is brought to you by the partnership of [Apex Evangelists](#) and [Anymchart](#).



Features:

- save as image
- save as PDF
- a lot of chart types
- multiple axis
- easy integration into APEX 3.0
- interactive maps

**UPGRADE YOUR
CHARTS NOW!**

Improve and extend your APEX applications using new version of

 **AnyChart**

THE INDUSTRY LEADER
IN DATA VISUALIZATION

**ORACLE** PARTNER

Provided by

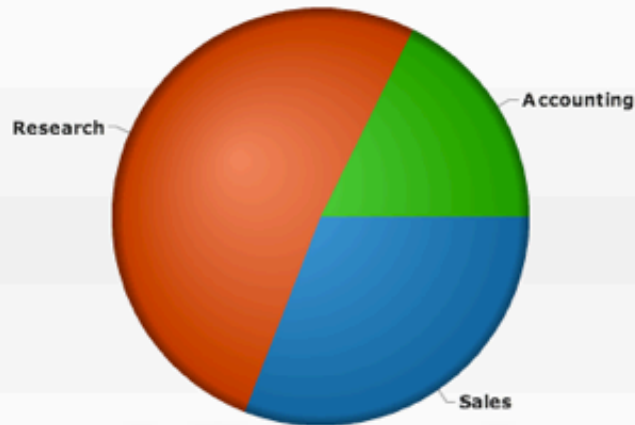
Apex Evangelists
Oracle Specialists

Live Demo

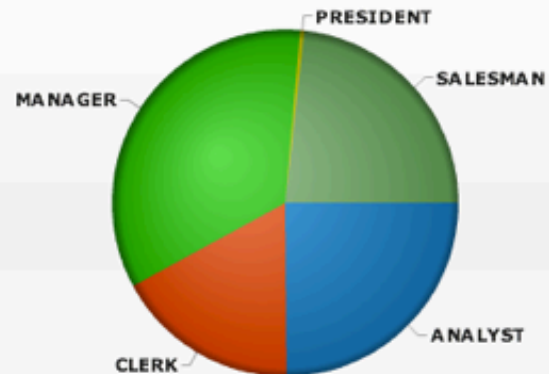
- Integrate Anychart 5.1.2

Different components of a dashboard

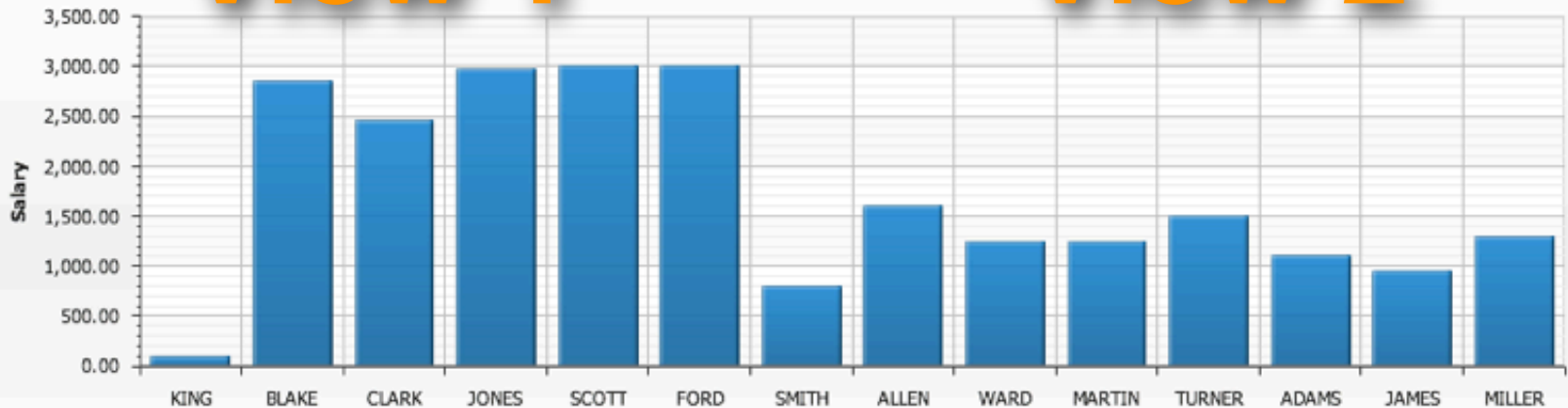
Department View



View 1



View 2



View 3

Components of a Dashboard - technical

- HTML - Flash
- Javascript
- XML

In APEX

- HTML Region
- Javascript (AJAX)
- Application Process
- PL/SQL to generate XML

Live Demo

- Create a dashboard
- Add Interactivity

AnyChart Technical Analysis Portal

Interactive Stock Charts and Technical Indicators

Compare with ▾

Technical Indicators ▾

Series Type ▾

Scale ▾

Jul 02, 2009: ■ ORCL 21.04



From: 2000 Jan 02 To: 2009 Jul 02

Zoom: 10D 1M 3M YTD 1Y 2Y 5Y MAX

Export as Image

Print

Live Demo

- Stock Charts integrated with APEX

Q & A

- Why do you want to create Interactive Dashboards
- Existing Charts in APEX
- Different components of a dashboard
- Real example in APEX

- More information
 - Websites
 - Oracle Application Express Homepage: <http://apex.oracle.com>
 - Email
 - dimitri.gielis@apex-evangelists.com
 - Blog
 - <http://dgielis.blogspot.com>
 - Apex Evangelists (AE)
 - <http://www.apex-evangelists.com>

- Please hand in Evaluation Form
 - Session
 - #S308887
 - Speaker
 - Dimitri Gielis
 - Title
 - Interactive Dashboards in APEX