Extending Oracle Analytics Cloud’s Data Visualization Using Custom Plug-ins

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Presenter Bio

• Working in Analytics since 1998
• Lead Consultant, Analytics Practice, interRel Consulting
• Oracle ACE
• Blogger - [http://beyond-just-data.blogspot.com/](http://beyond-just-data.blogspot.com/)
• Speaker
TechCasts Objectives

• What are DV Plug-ins / Extensions
• Where to Find DV Plug-ins / Extensions
• How to Install and use DV Extensions within a DV Project
Current DV Library
What Are Extensions?

• Custom Visualization
• Community Developed
• Based on D3 (Data Driven Documents)
Where to Find DV Extensions
Oracle Analytics Library


Using DV Extensions

Demo
Topics:

• Download and Install Extension

• Work with Extensions in DV Projects:
  • Calendar Heat Map
  • Butterfly Chart
  • Force Directed Graph Plugin
  • Circle Pack Plugin
  • Row Expander
Installing Extensions

Console

Extensions

Maps

- Upload Extension
- com.company.calendarViz
- com.company.clusterMapViz
- com.company.customTile
- com.company.dimPlayer
- com.company.elbow
Calendar Heat Map

Revenue by Date

October 2015

November 2015

December 2015

January 2016

February 2016

March 2016

April 2016
Butterfly Chart

The chart shows the total donations by students reached across different grade levels. The categories are:

- A: Grades PreK-2
- B: Grades 3-5
- C: Grades 6-8
- D: Grades 9-12

The horizontal bars on the left represent the total donations in millions, with A having the highest at 20M, followed by B at 10M, C at 0M, and D also at 0M. The vertical bars on the right show the distribution of donations among grades within each category.
Force Directed Graph Plugin
Circle Pack
### Row Expander

#### # of Orders, # of Customers by Product Category, Product Sub Category

<table>
<thead>
<tr>
<th>Category</th>
<th># of Orders</th>
<th># of Customers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Furniture</td>
<td>1,834</td>
<td>1,642</td>
</tr>
<tr>
<td>Bookcases</td>
<td>202</td>
<td>194</td>
</tr>
<tr>
<td>Chairs &amp; Chairmats</td>
<td>424</td>
<td>385</td>
</tr>
<tr>
<td>Office Furnishings</td>
<td>814</td>
<td>690</td>
</tr>
<tr>
<td>Tables</td>
<td>394</td>
<td>373</td>
</tr>
<tr>
<td>Office Supplies</td>
<td>4,665</td>
<td>4,038</td>
</tr>
<tr>
<td>Technology</td>
<td>2,205</td>
<td>1,923</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>8,704</strong></td>
<td><strong>7,603</strong></td>
</tr>
</tbody>
</table>
Create Your Own DV Extension
Create Your Own – DV SDK Reference


G Data Visualization SDK Reference

This topic describes the software development kit (SDK) that you can use to develop and deploy visualization plug-ins to your Data Visualization installation.

Topics:

- Oracle Data Visualization SDK
- Create the Visualization Plug-in Development Environment
- Create a Skeleton Visualization Plug-in
- Create a Skeleton Skin or Unclassified Plug-in
- Develop a Visualization Plug-in
- Run in SDK Mode and Test the Plug-in
- Validate the Visualization Plug-in
- Build, Package, and Deploy the Visualization Plug-in
- Delete Plug-ins from the Development Environment
Create Your Own – Oracle Tutorial


Creating Plug-in Visualizations for Oracle Data Visualization

- Before You Begin
- Creating a Basic Visualization Plug-in
- Editing the Rendering Logic
- Refining the Explore Panel
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DV SDK Reference

Oracle Tutorial

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**Presenter:** Charlie Berger

**Subject:** Wine and Machine Learning

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