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## What is Oracle JET



5

## APEX JET Charts

Demonstration



6

LiveSlides web content

To view  
Download the add-in.  
[liveslides.com/download](http://liveslides.com/download)  
Start the presentation.

7

## Let's start with a chart

Demonstration



8

## Bring your charts to life

- Use Dynamic Actions to change JET options

```
$("#bar_jet").ojChart({stack: 'off'});
```

- Use localStorage to remember options

```
myStorage.setItem("stack", "off");
```

- Use JavaScript code to activate remembered options

```
function( options ){  
    options.stack = myStorage.getItem("stack");  
    return options;  
}
```

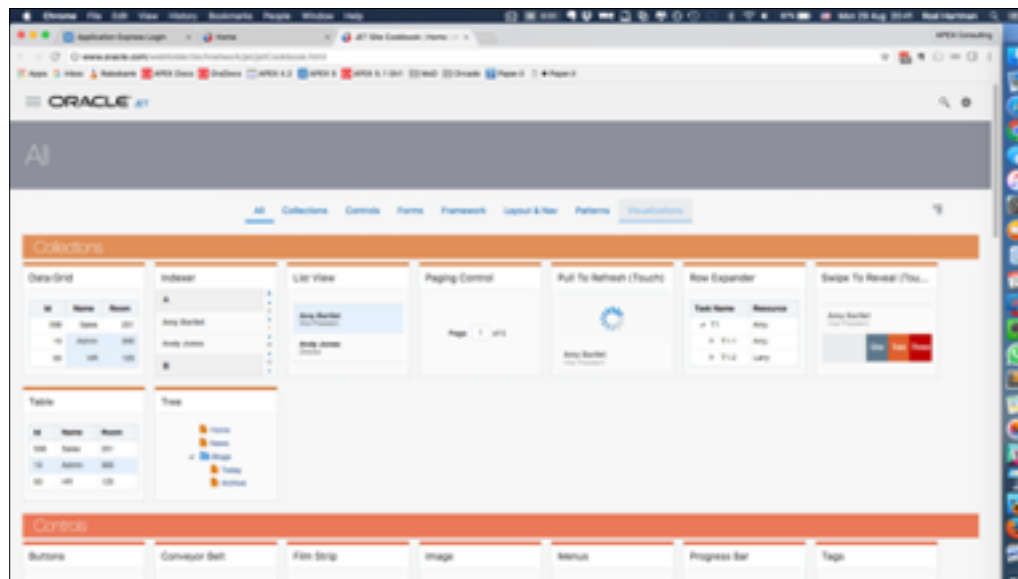
9

## But wait...there's more

Plugins to the rescue!



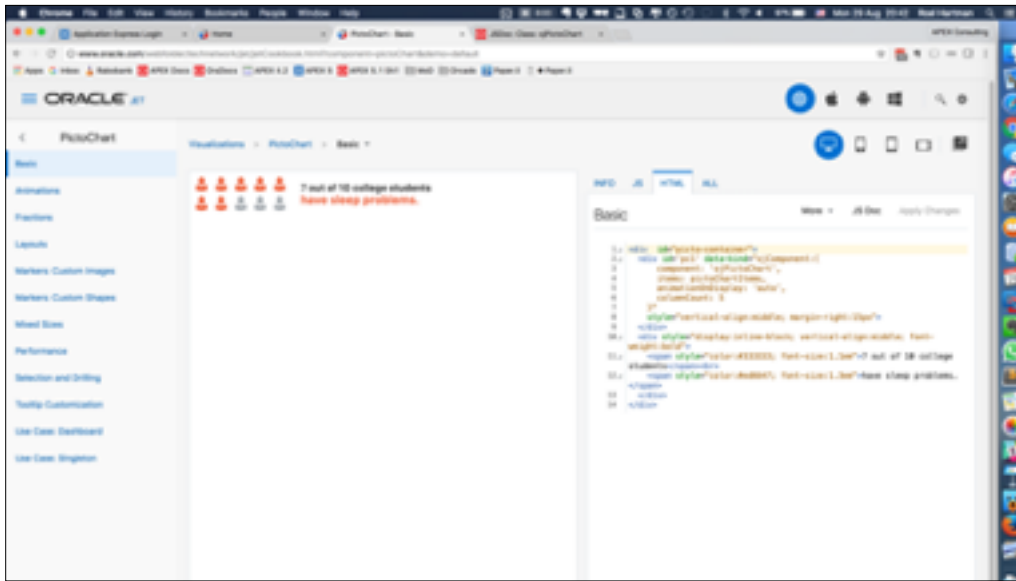
10



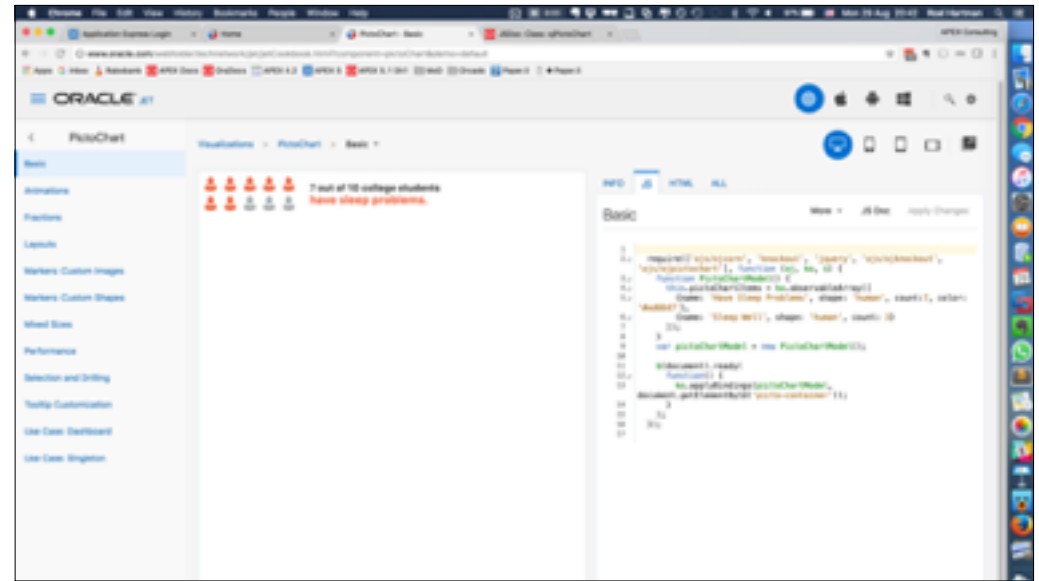
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**UNDERDOCUMENTED  
FEATURE**

15



16

```

1  /*
2  * render - function to create placeholder div tag, and initialise the component
3  */
4  function render
5  (
6    p_region          in apex_plugin.t_region
7    , p_plugin        in apex_plugin.t_plugin
8    , p_is_printer_friendly in boolean
9  ) return apex_plugin.t_region_render_result
10 is
11 c_region_static_id constant varchar2(255) := apex_escape.html_attribute( p_region.static_id );
12 begin
13 -- Add placeholder div
14 sys.http.p (
15   'div class="a-JET-PictoChart" id="' || c_region_static_id || '_region">' ||
16   'div class="a-JET-PictoChart-container" id="' || c_region_static_id || '_chart"></div>' ||
17   '</div>' );
18 -- Initialize the chart
19 apex_javascript.add_onload_code
20 ( p_code => 'jet.picto.init(' ||
21   "' || c_region_static_id || '_chart', '      || -- pRegionId
22   "' || apex_plugin.get_ajax_identifier || "' || -- pApexAjaxIdentifier
23   ')');
24 );
25
26 return null;
27 end render;

```

17

```

28 /*
29 * ajax - function to process SQL query, and output JSON data for Legend
30 */
31
32 function ajax
33 (
34   p_region in apex_plugin.t_region
35   , p_plugin in apex_plugin.t_plugin
36 ) return apex_plugin.t_region_ajax_result
37 is
38   c sys_refcursor;
39   l_query varchar2(32767);
40 begin
41   l_query := p_region.source;
42   open c for l_query;
43   apex_json.open_object;
44   apex_json.write('items', c);
45
46   -- add settings
47   apex_json.write('animationOnDisplay' , p_region.attribute_01);
48   apex_json.write('columnCount'       , p_region.attribute_02);
49   apex_json.write('layout'            , p_region.attribute_03);
50
51   apex_json.close_object;
52   return null;
53 end ajax;

```

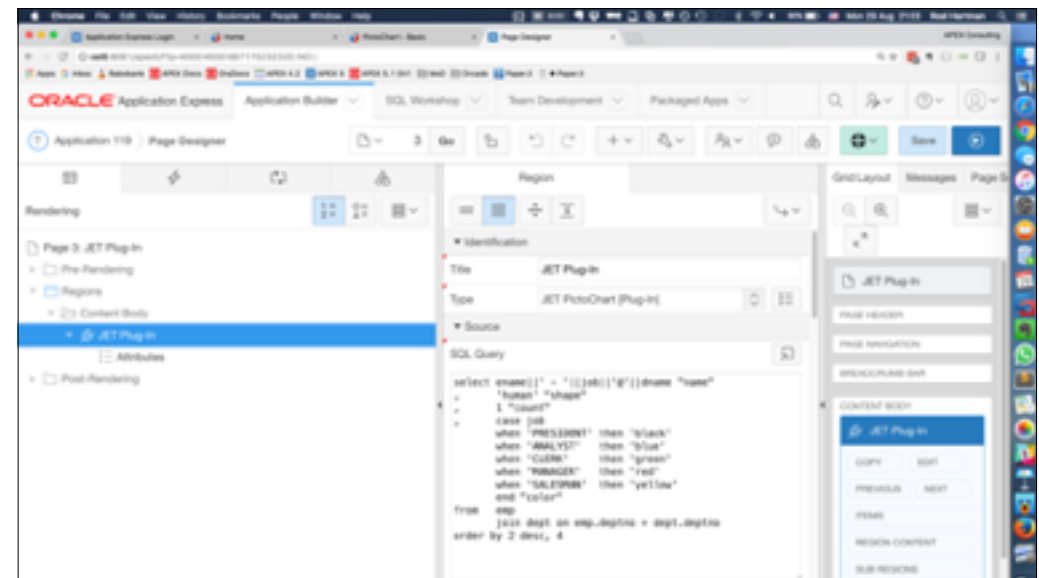
18

```

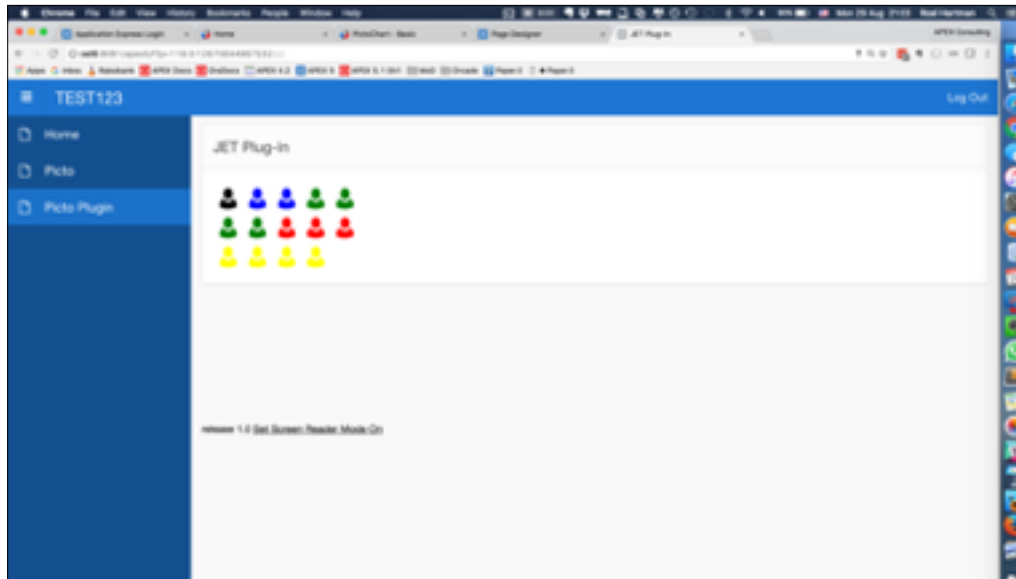
1  ! function (jet, $, server, util, debug) {
2    "use strict";
3
4    jet.picto = {
5      init: function (pRegionId, pApexAjaxIdentifier) {
6        require(["ojs/ojcore", "jquery", "ojs/ojpictochart"], function (oj, $) {
7          server.plugin(pApexAjaxIdentifier, {}, {
8            success: function (pData) {
9              $(pRegionId)
10               .ojPictoChart(pData);
11            }
12          });
13        });
14      }
15    }
16 } (window.jet = window.jet || {}, apex.jquery, apex.server, apex.util, apex.debug);

```

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## A JET Charts Plugin : Building Blocks

- A simple PL/SQL render function
- A simple PL/SQL ajax function
- A simple JavaScript call
- A simple SQL query

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## Read / Set JET Chart data

Use a JET Chart as an input item



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## Read / Set JET Chart data

- Disable the readonly option
- Use the `ojoptionchange` event to listen to changes
- Use the data payload to find the new value

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# CONCLUSIONS



- Enhance JET Chart
- Create a JET Chart Plugin
- Use JET Chart as an input item

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# Q & A

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