



**Make your APEX  
Applications fly using  
JET components**



A photograph of two divers underwater in a dark blue environment. A thick yellow rope runs diagonally from the top left towards the bottom left. One diver is positioned higher and further to the right, while the other is lower and further to the left. Both divers are wearing scuba gear, including tanks and fins. Bubbles are visible around the divers, indicating they are breathing. The overall scene is dimly lit, with the primary light source coming from the divers' equipment and the rope.

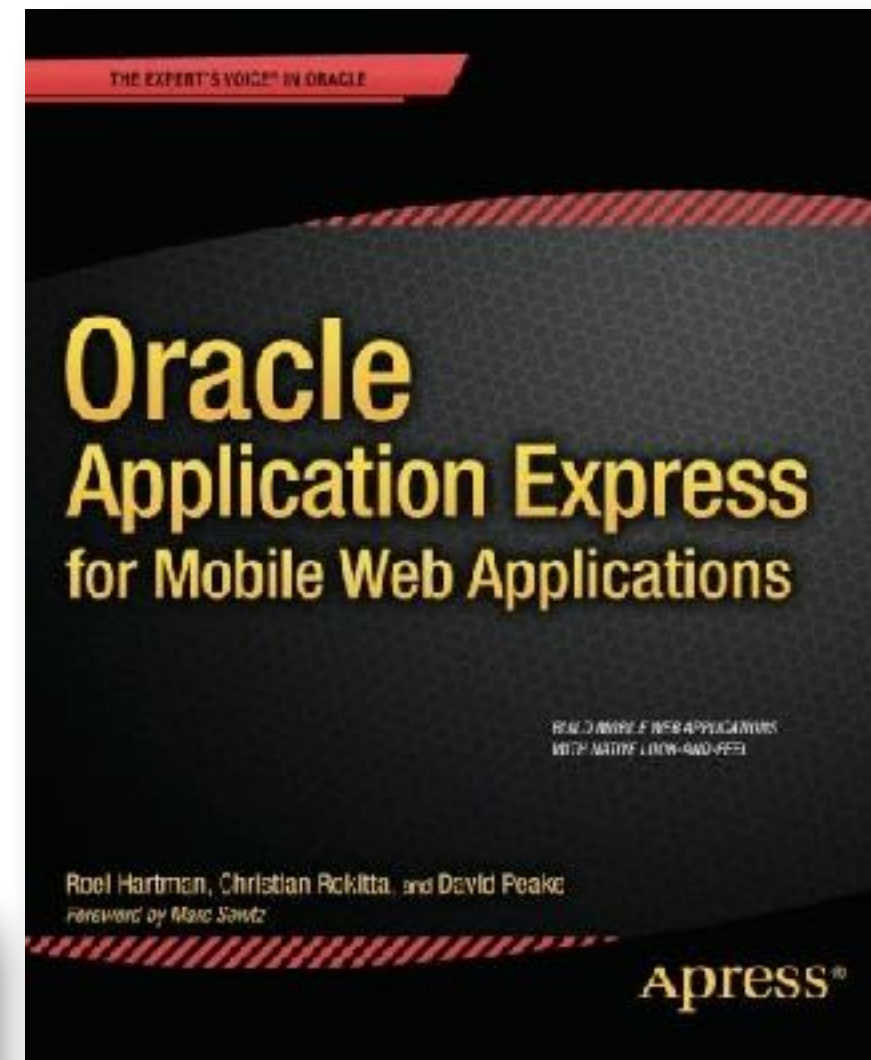
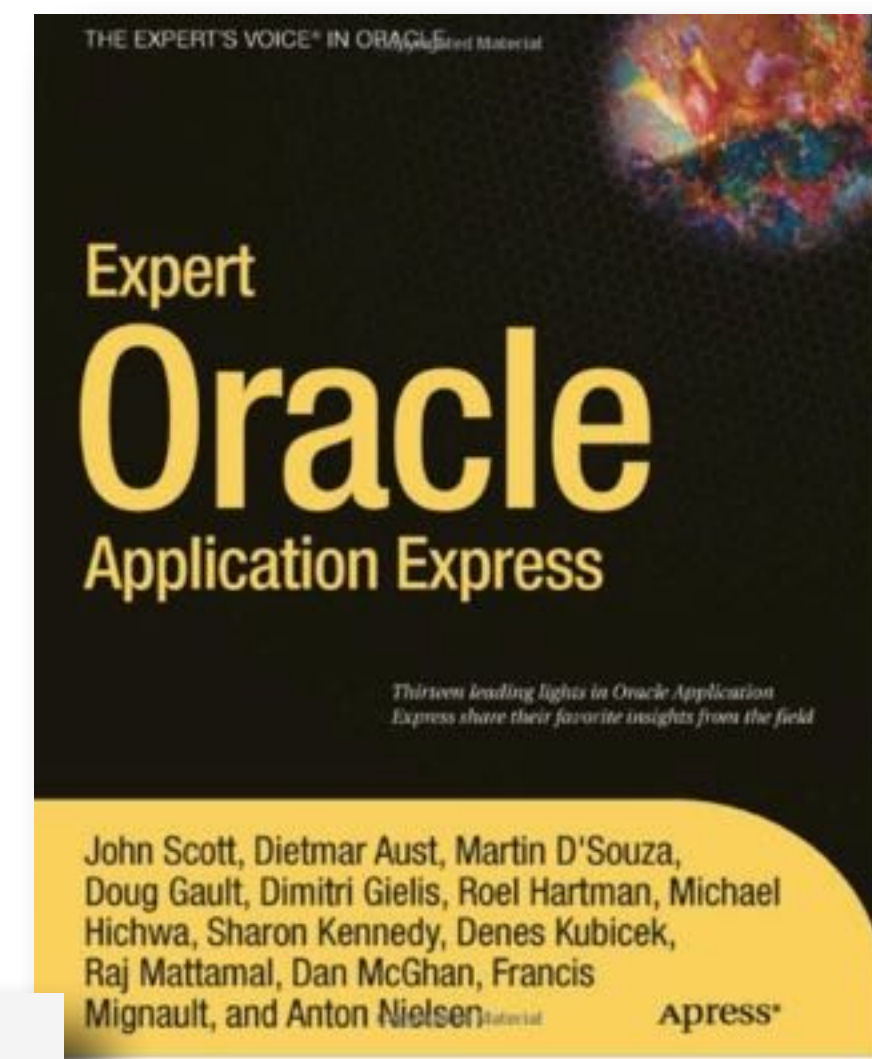
# A Deep Dive into APEX JET Charts





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# What is Oracle JET

## The Right Technology for the Right Person

Java Developer



Oracle ADF  
Oracle MAF

JavaScript Developer



Oracle JET

PL/SQL Developer



Oracle APEX  
Oracle Forms

Business User



Oracle ABCS  
Oracle MAX

# APEX JET Charts

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Demonstration





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# Let's start with a chart

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Demonstration





# Bring your charts to life

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- 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;  
}
```



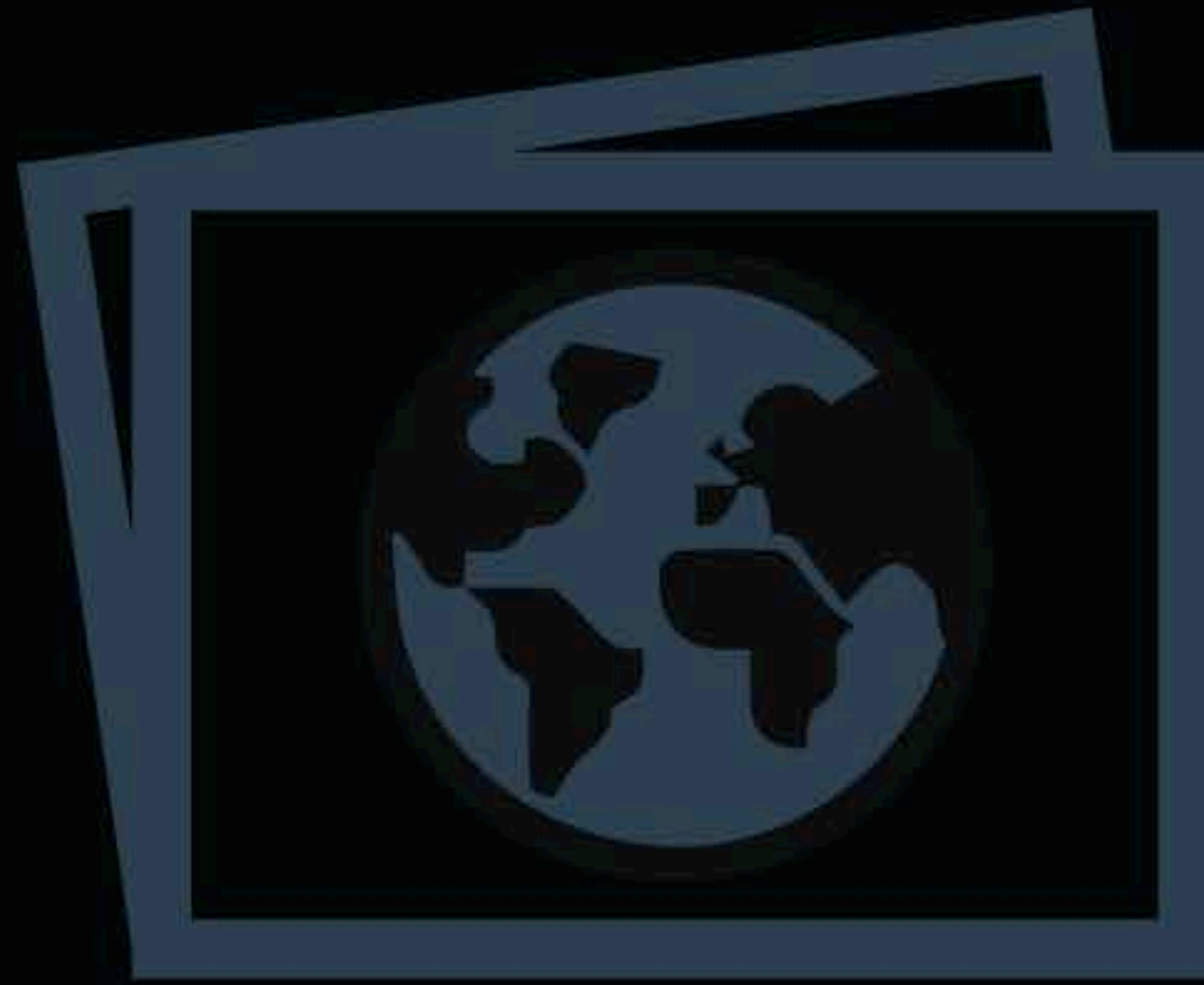
# But wait...there's more

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Plugins to the rescue!







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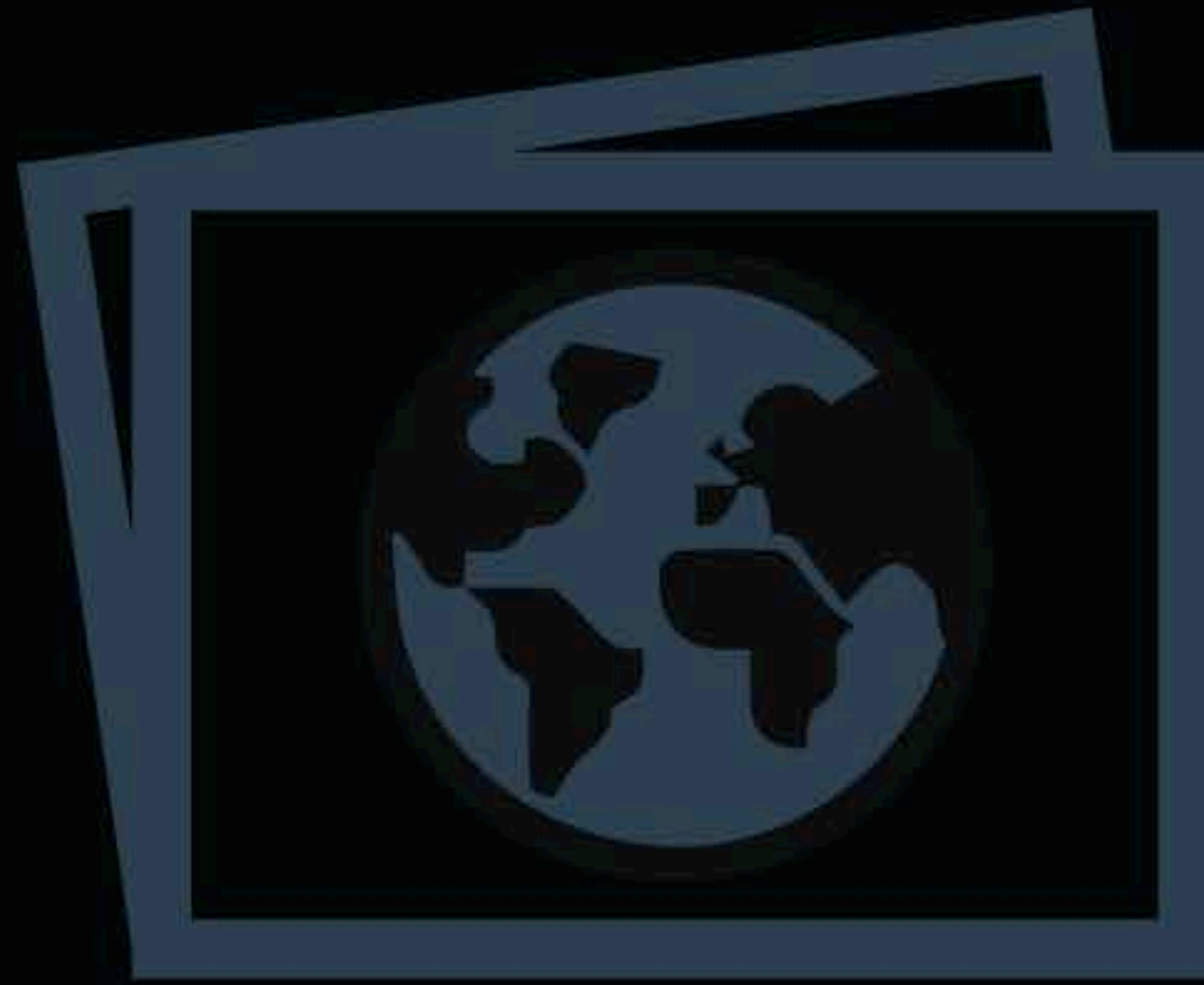
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**UNDERDOCUMENTED  
FEATURE**





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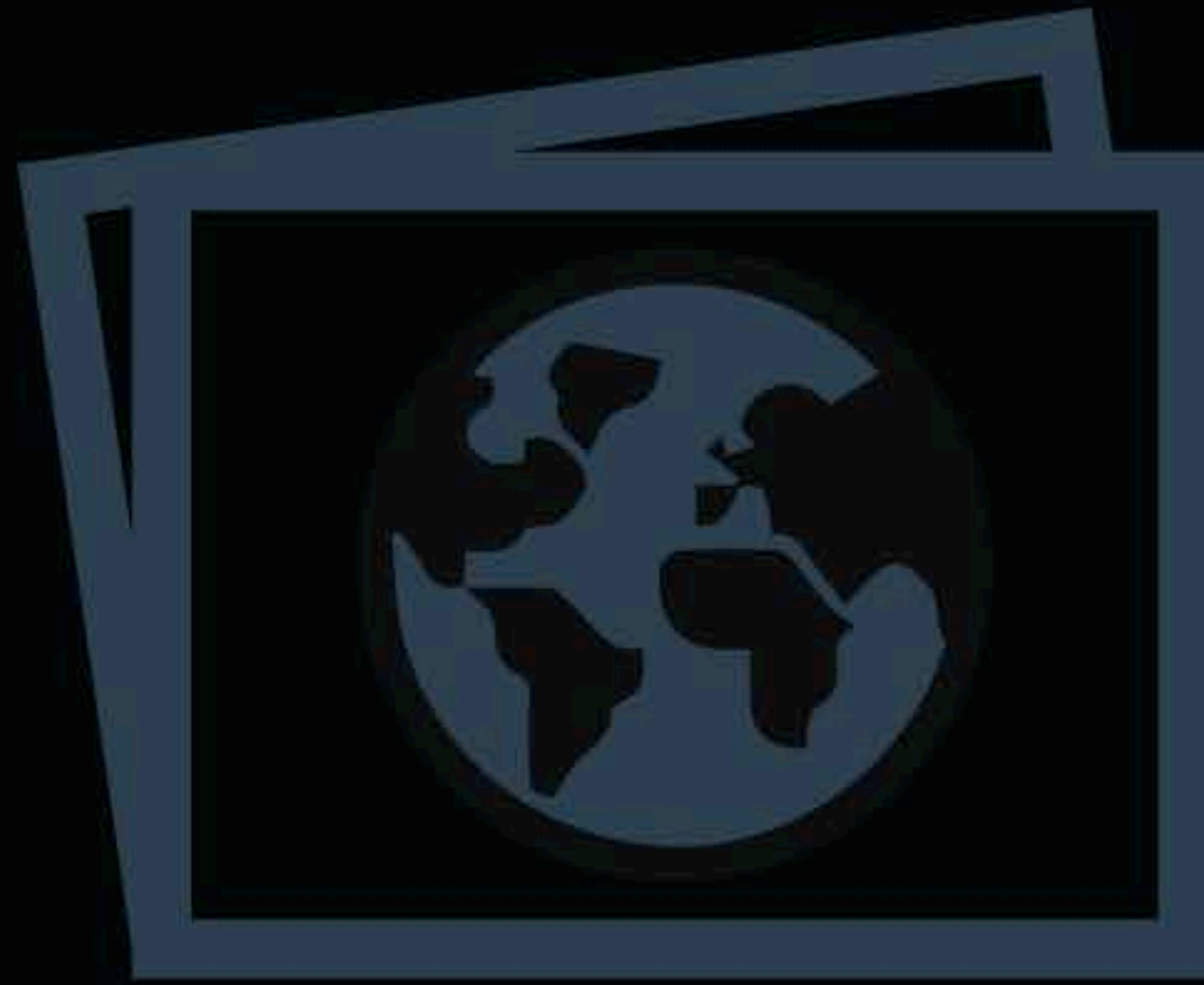
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```
1  ! function (jet, $, server, util, debug) {
2      "use strict";
3
4      jet.picto = {
5          init: function (pRegionId, pApexAjaxIdentifier) {
6              require(["ojs/ojcore", "jquery", "ojs/ojpictochart"], function (oj, $) {
7                  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);
```



Rendering

1 = 2 = O = A =

Region

≡ ≡ ≡ ≡ ↶

Page 3: JET Plug-In

- Pre-Rendering
- Regions
  - Content Body
  - JET Plug-In**
    - Attributes
- Post-Rendering

▼ Identification

Title JET Plug-In

Type JET PictoChart [Plug-In]

▼ Source

SQL Query

```

select ename||' - '||job||'@'||dname "name"
, 'human' "shape"
, 1 "count"
, case job
  when 'PRESIDENT' then 'black'
  when 'ANALYST' then 'blue'
  when 'CLERK' then 'green'
  when 'MANAGER' then 'red'
  when 'SALESMAN' then 'yellow'
end "color"
from emp
  join dept on emp.deptno = dept.deptno
order by 2 desc, 4
  
```

JET Plug-In

PAGE HEADER

PAGE NAVIGATION

BREADCRUMB BAR

CONTENT BODY

JET Plug-In

COPY EDIT

PREVIOUS NEXT


ITEMS

REGION CONTENT

SUB REGIONS



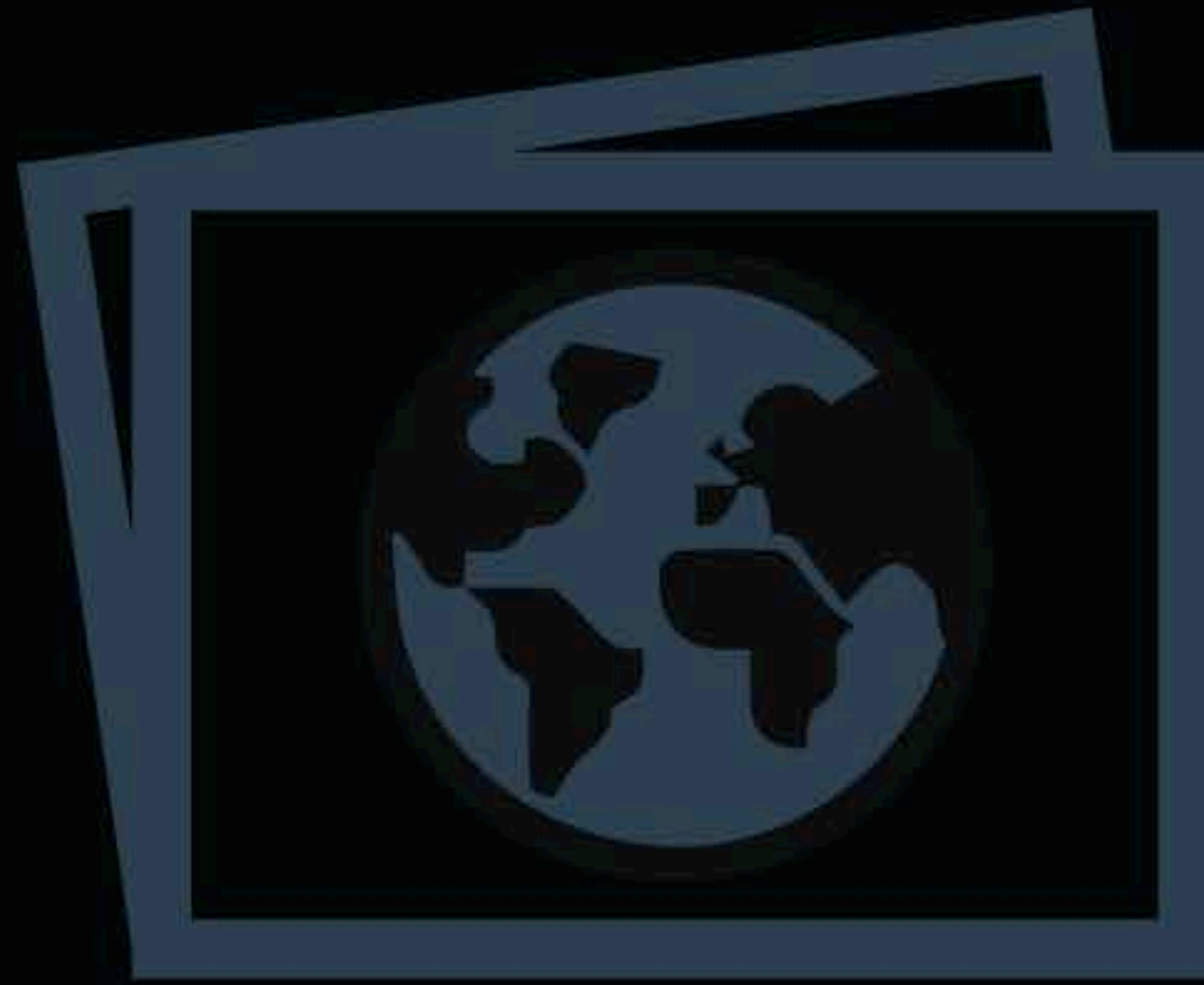
### JET Plug-In



release 1.0 [Set Screen Reader Mode On](#)







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# A JET Charts Plugin : Building Blocks

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



# Read / Set JET Chart data

---

Use a JET Chart as an input item



# Read / Set JET Chart data

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

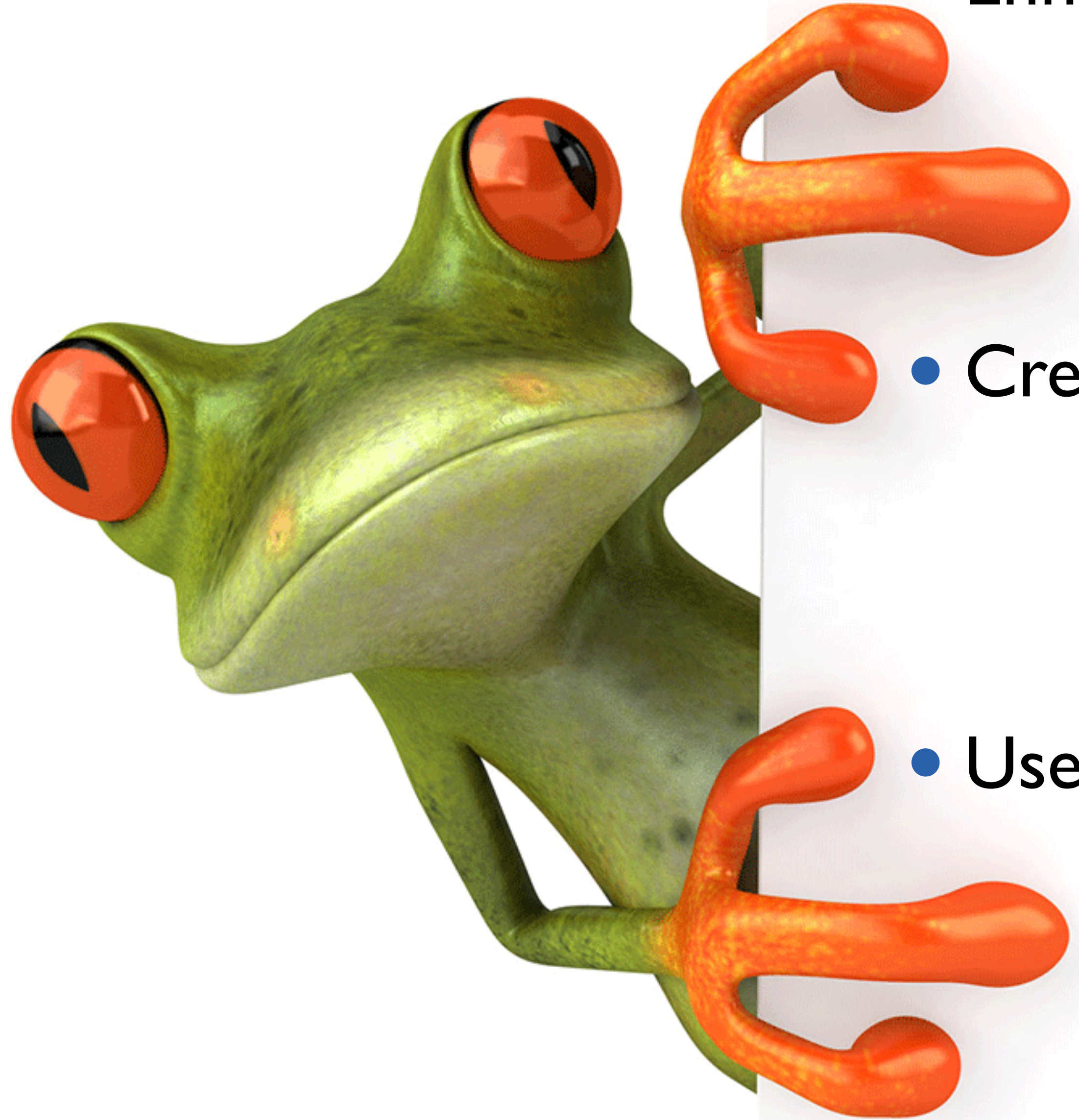


# CONCLUSIONS

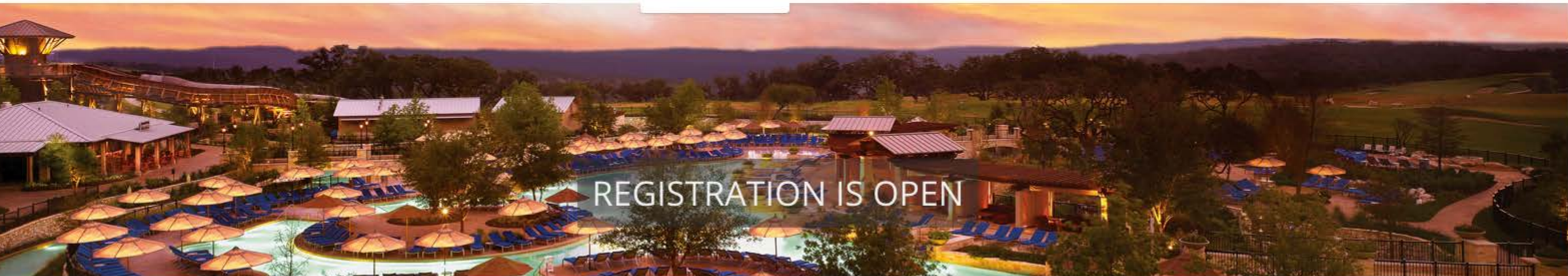
- Enhance JET Chart

- Create a JET Chart Plugin

- Use JET Chart as an input item







Q & A

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