

## Oracle Apex Waterfall Chart Plugin User Manual

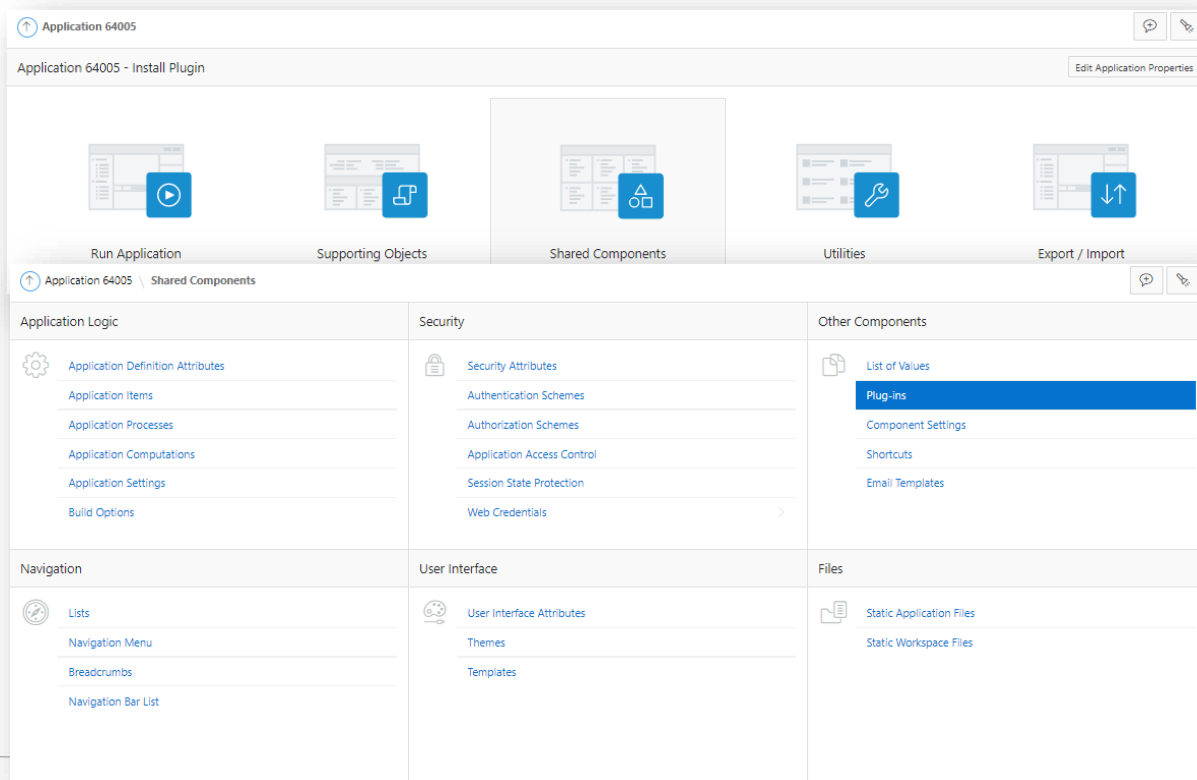
## Summary

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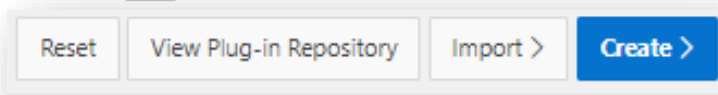
## Install the plugin

### I - Installation

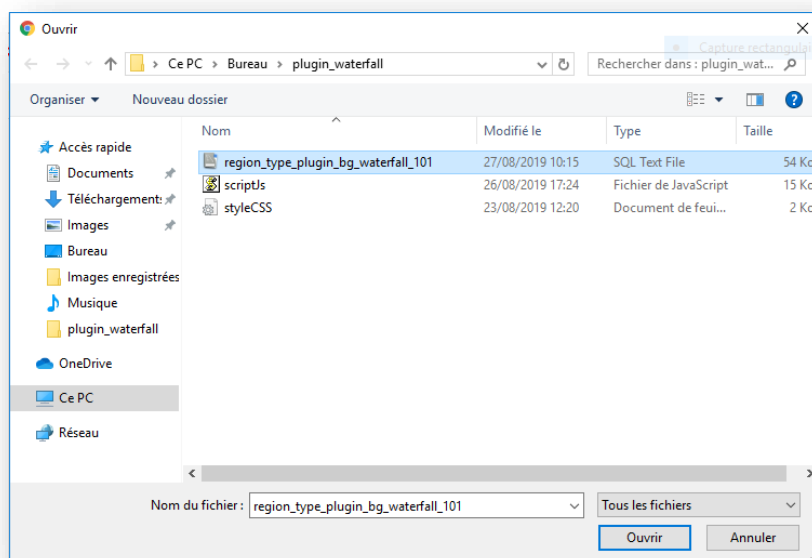
- 1) Download the zip file and extract it in a folder.
- 2) Go on your app page and then click on Shared components



-> import



3) Select the .sql file in your folder and click ok.



4) Finish the installation sequence (Next -> Next -> Install Plug-in ->). The plugin should now be in your app shared components.

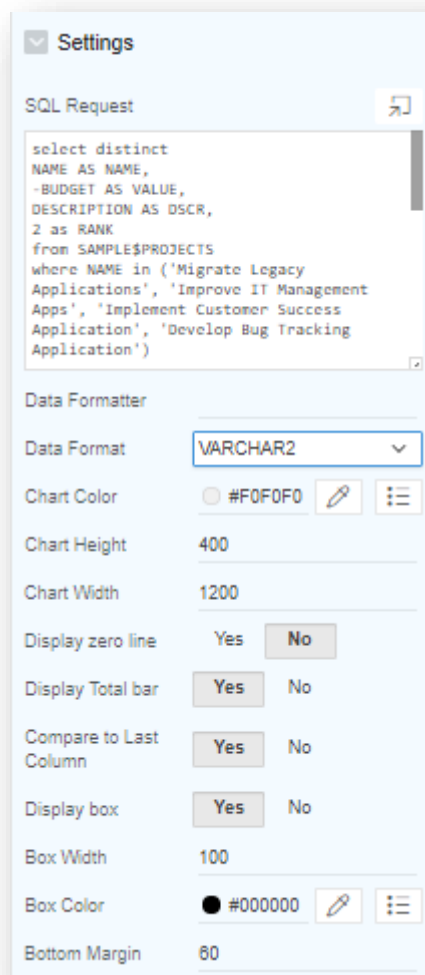
## *II - Add the plugin to your app*

- 1) Select the app page in which you want to add the plugin.
- 2) Create a new region and select the following region type: **Waterfall Chart [Plug-In]**
- 3) Configured the plugin at your likes.  
All attributes should be configured.

## Configure the plugin

### Settings :

The settings can be found in the attributes of the plugin region. They allow you to customize what will be displayed on screen.



**Settings**

SQL Request

```
select distinct  
NAME AS NAME,  
-BUDGET AS VALUE,  
DESCRIPTION AS DSCR,  
2 as RANK  
from SAMPLE$PROJECTS  
where NAME in ('Migrate Legacy  
Applications', 'Improve IT Management  
Apps', 'Implement Customer Success  
Application', 'Develop Bug Tracking  
Application')
```

**Data Formatter**

Data Format: VARCHAR2

Chart Color: #F0F0F0

Chart Height: 400

Chart Width: 1200

Display zero line: Yes No

Display Total bar: Yes No

Compare to Last Column: Yes No

Display box: Yes No

Box Width: 100

Box Color: #000000

Bottom Margin: 60

## SQL request :

The format of the input data should respect the following constraints:

-SIZE: The result of your sql query should contain at least 2 columns. The plugin can use up to 3 columns to generate the chart, any additional column will be ignored by the plugin. However there still is a size limit of 20 columns. Here how the sql request result is used by the plugin:

Column	Data Format	Use
1 Name	varchar2, number, date, timestamp	<b>REQUIRED.</b> Used to generate x axis ticks. If the ticks are too long, they will not be displayed entirely (see part /TO DO/ to display longer ticks on x axis).  <b>WARNING:</b> Names should be quite small (about 20 characters each), else they will not be displayed correctly. If you want longer Names, see subsection Change bottom margin of section FIXES.  <b>WARNING:</b> Names should not contain “/”, because this character will be used to split string data.
2 Value	number	<b>REQUIRED.</b> Used as bars heights. A positive value will result in a positive bar, a negative value in a negative bar.
3 Description	varchar2	<b>OPTIONAL.</b> If the result of your request contain 3 columns, the data of the third column will be used to generate a description that is displayed when one clicks on a bar. If there is no third column, the first column data will be used instead.

## Data format

**IMPORTANT:** the type of your first column data **NEEDS TO** be specified in the plugin attributes. Select the right value in the “Data Format” list of values.

Data Formatter : The data formatter is one or multiple symbols that will be displayed after the y axis ticks. If none is specified then the ticks will contain raw numbers.

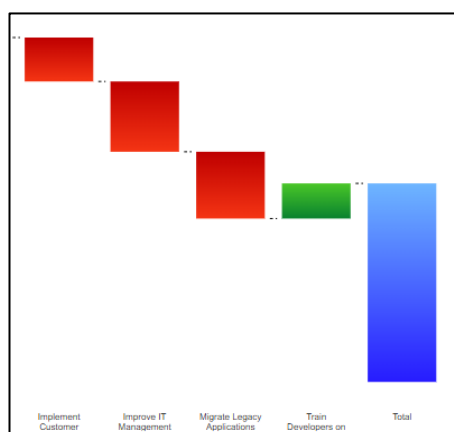
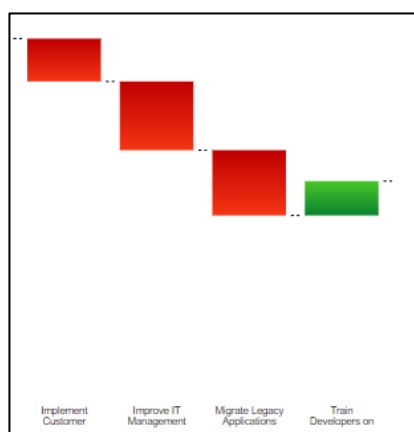
Data Format: See **IMPORTANT** section of the SQL request part.

Chart Color : Color of the chart's background.

Chart Height : Height of the chart svg (margins included).

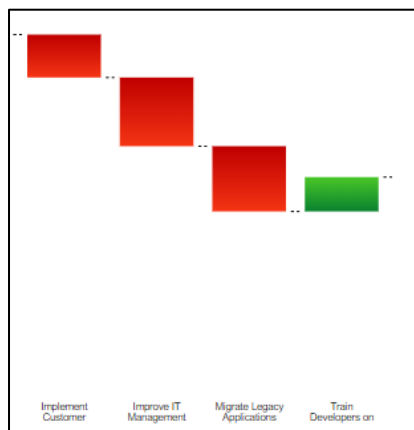
Chart Width : Width of the chart svg (margins included).

Display Total bar : Select yes if you want to display a bar that sums all previous bar values (except Last bar, see *Display Last Bar* below).

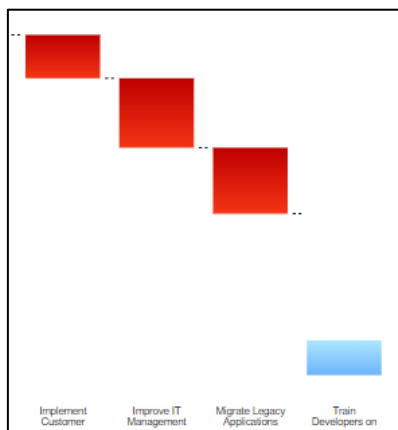




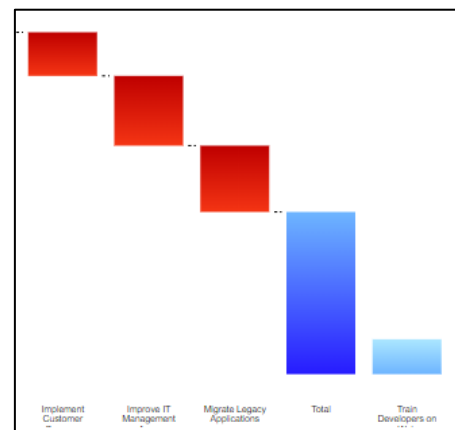
Compare to last column : Select yes if you want to display a bar at the end of your chart with the value of the last row of your query.



No last column



Last column



Total and Last column

Display box : Select yes if you want to display a box when the user clicks on a bar.

Box Width : Width of the box (margins included, text width = box width - margins).

Box Color : Color of the box's background.

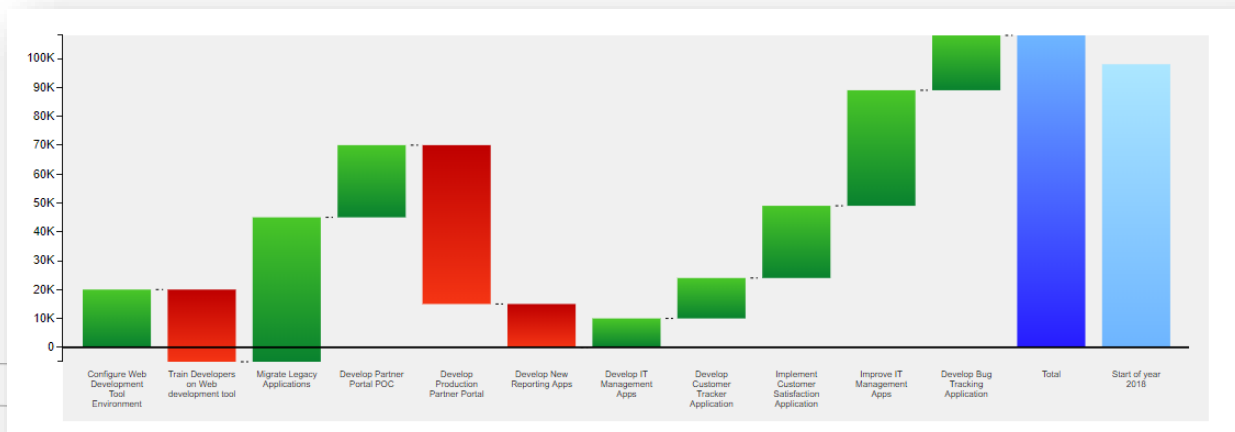
Bottom margin : size of the bottom margin. **If your x axis ticks do not display entirely, increase the bottom margin value.**

## Modify appearance with CSS

Not all colors and fonts can be configured from the attributes of the plugin. You may want the plugin style to match your page. Therefore you should modify the styleCSS.css file.

- 1) Download the file from the plugin page.
- 2) Modify the document and save it under the SAME NAME. This is very important because the file is imported in the plsql part of the plugin via its name. The css file is divided in parts to help you navigated through the diverse elements rendered on screen.
- 3) Go back on the plugin page and click on Upload file -> Select file -> 'select styleCSS' -> open -> upload -> apply changes.

### *Example: modify bars colors*



Above is our default chart. Let's modify the positive bars.

Open the styleCSS.css file. Then look for the part you want to modify. In this example, we'll modify the positive bars so search the *Colors used to render bars* part.

```

4  /*-----Colors used to render bars-----*/
5  .startPositive {
6      stop-color: #4ac728;
7  }
8  .endPositive {
9      stop-color: #09822f;
10 }
```

Let's change the start color value:

```

4  /*-----Colors used to render bars-----*/
5  .startPositive {
6      stop-color: #f0fc03; /*old value: #4ac728;*/
7  }
8  .endPositive {
9      stop-color: #09822f;
10 }
```

Last step is to upload the file and it will be done. The result chart can be seen below.

