ATiM’s Chart tool

ATiM’s Chart tool is a utile that use nvd3 (A reusable chart library for d3.js) and can be used in report part of ATiM (/Datamart/Reports/index).

It make a graphic chart of the reports.

For using it should send data chart as below:

return array(

'header' => $header,

'data' => $data,

'charts' => array(

'data'***=>$chartsData,***

***'setting'=>array(***

***'top'=>true,***

***'popup' => true***

***),***

),

'columns\_names' => null,

'error\_msg' => null

);

# Setting options

**top**: If true in report part the data table would be at the top of the charts. Default value = true.

**Popup**: If true instead of charts will have a button who shows the popup chart, else the chart will be appeared on the web page directly.

# Data Chart

Data chart (in this example: ***$chartsData***) is an index array which contain the array charts with the keys as below

**type (string)**: The type of chart (lineChart, pieChart, donatChart, lineWithFocusChart, multiBarChart, …). You can also use some other type from this [link](https://nvd3-community.github.io/nvd3/examples/documentation.html) but should modify the JavaScript file to set the parameters.

**title (string)**: The title of the chart.

**data (array)**: The format is up to the type chart. You can see this [link](https://nvd3-community.github.io/nvd3/examples/site.html) and then look at the examples with source code to know how should send the data format.

# Data Chart Example

You can see an example of data chart as below

$a = array();

$b = array();

$xAxis = array();

for ($i=0; $i<50; $i++){

$a[]=array($i, isset($a[$i-1])?$a[$i-1][1]+rand(-1, 3):-2);

$b[]=array($i, isset($b[$i-1])?$b[$i-1][1]+rand(-1, 2):10);

$c[]=array($i, isset($c[$i-1])?$c[$i-1][1]+rand(-1, 2):5);

$d[]=array($i, isset($d[$i-1])?$d[$i-1][1]+rand(-4, 2):60);

}

$chart01 = array(

'type' => 'pieChart',

'title' => 'Pie chart example',

'data' => array(

array("One", 5),

array("Two", 2),

array("Three", 9),

array("Four", 7),

array("Five", 4),

array("Six", 3),

array("Seven", 0.5)

)

);

$chart02 = array(

'type' =>' multiBarChart',

'title' =>'Line chart example',

'xAxis' => array(

'ticks'=>$xAxis,

'axisLabel' => 'X-dimension'

),

'yAxis' => array(

'axisLabel' => 'Y-dimension'

),

'data' => array(

array(

'key' =>'A',

'values'=> $a

),

array(

'key' =>'B',

'values'=> $b

),

array(

'key' =>'C',

'values'=> $c

),

array(

'key' =>'D',

'values'=> $d

)

)

);

$chartsData = array(

$chart01,

$chart02

);