

Controlling viewer's visibility of components in Xcelsius Dashboards

水晶易表的仪表盘里可控制组件的显示与否

Hello and welcome, using dynamical visibility in Xcelsius 2008, one can make component appears or disappear based on *. You can apply dynamical visibility to any component in Xcelsius. Let's go and get started. For this example, I am gonna use previous model which I design for demonstrating on pie chart drill down. So let's go and open it. Let's go file, open, open the pie chart-drill down.xlf.

大家好，Xcelsius 2008 的“动态可视”功能可以让某个组件按照要求出现或消失。“动态可视”可以应用在 Xcelsius 里的任何组件上。对于这个例子，我使用的是以前用于展示向下钻取的饼图。我们打开它。在“文件”，选择“打开”，打开“pie chart drilldown.xlf”文件。

Let's see what we have, so let's go ahead and preview it. I have simple chart on the left and I have a drill down chart that is a column chart on the right, so if I click on pie wedges, I see the data changing on the right. Basically, it's a drill down chart. What we gonna do now is to insert a check box which is going to display or disappear the drill down chart on the right. Let's go ahead and do that.

预览后可以看见左边有一个简单的饼图，右边是一个向下钻取的图表，一个柱状图。点击各块饼图，我可以看见右边的数据在改变，这是因为它是一个钻入图。我们插入一个复选框，它可以让右边的钻入图出现或者消失，现在我们开始做。

The check box is under the selector category, so I go to selectors, drags and drops a check box. Let's give the check box a name, in our case, the name is drill down. And I am gonna leave the insertion source data as zero for unchecked, one for checked and give the destination of b1, I bind the b1 and color the b1 cell. What happens here exactly is when the user checks the check box; it inserts value 1

复选框在“Selectors”里，所以我点击“Selectors”，从中拖拽一个复选框，并给它取一个名字，这个情况下，我们叫它“Drill down”。此外，我把取消选中的来源数据标记为 0，选中的标记为 1，并把它们放到目的地中，与 B1 单元格绑定，并给 B1 单元格填色。所以当用户选择复选框时；他就在 B1 中插入数值 1。如果取消，他就会在 B1 中插入数值 0。

For our example, we gonna go back the check box properties, go to behavior and by default, the selected item be changed to checked. So that dashboard launches with the check box checked. Now we need to set the dynamical visibility of the drill down chart that is a column chart. To appear here, if b1 is 1, and disappear if the b1 is 0. Let's go to the property of the column chart, go to behavior tab, under the dynamical visibility, and bind the status to cell B1. And when they want the column chart to up here, if cell B1 is 1, so just put No.1 for key, so the column chart up here if B1 is 1 and disappears, if it is anything other 1, in our case, B1 could only be 1 or 0 because we only insert the check box value into b1.

这个例子中，我们回到复选框属性，在“行为”中，默认情况下，所选的项目被改为已选择的。因此，仪表盘运行时复选框时是自动被选中的。现在我们来设置钻入图表的柱形图的动态可视。如果 B1 是 1 的话，柱形图出现；如果是 0 的话，柱形图就消失。在柱形图属性中，

“行为”选项卡下，“动态可视”，把动态可见的状态和单元格 B1 绑定。如果单元格 B1 是 1，他们在这里可看到柱形图，所以数字 1 是“Key”。所以当 B1 是 1 的话，柱形图就出现，如果不是 1，柱形图就消失。我们的例子中，B1 只可能是 1 或者 0，因为我们是从复选框 B1 中插入数据的。

Let's go preview and see what happens. On the dashboard launch, the check box is checked by default, that's the reason you can see the drill down chart. If I unchecked, you cannot. So basically, it inserting 0 and 1 in cell b1, and dynamically was the acting on my drill down chart and make it appear or disappear based on value on cell b1. That's how simple it is to for you to apply dynamical visibility for practically any component in Xcelsius.

现在我们预览，在仪表板运行时，复选框在默认情况下被选中，这就是你可以看到钻入图表的原因。如果不选中它，你就看不到图。因此基本上，它在单元格 B1 中插入 0 和 1，动态可视就能对我的钻入图表进行操作，它单元格 B1 里的数据出现或者消失。Xcelsius 中应用动态可视就是这么简单。

Let's take a step further; I have another file to show that. Let's open that file, what we are trying to achieve here is if user selects at least three of selections of the six check boxes I have here, then only display the submitted button or not. In order to achieve this, I have already set up six check boxes and I have instruction which select at least three to continue. So, if the user select two, he or she will not see the submit button, if he select three or more, they will see the submit button. Let me show you what I did with the check boxes. Let's take the first check box and go to properties, I bind the title to cell a3, which is sports, similarly for all other check box. Also, I ask the check box to insert source data which was 1 and 0 again into destination that is B3 for sports, B4 for music and so on.

我们再来，我还有一个文件。打开该文件，我们要做的是，用户至少从六个复选框中选出三个，然后才能显示提交按钮。为了实现这一点，我在这里已经建好了 6 个复选框，我在上面说明，至少选择三个才能继续。因此，如果用户选择两个，他或她将不会看到提交按钮，如果他们选择三个或者更多，才会看到提交按钮。现在我来演示我是如何设置复选框的。选择第一个复选框，进入属性，把它与单元格 A3 绑定，即“体育”，同样的方法来粘合所有其他的复选框。另外，我让复选框把源数据（即 1 或 0）插入到目的地。B3 是“运动”，B4 是“音乐”，等等。

Now, in order to make the submit button up here, if any of three are selected, we gonna use logic, so we gonna put formula here. What we gonna do here are we gonna use simple sum formula: sum B3 to B8, we see zero for now. Let's check sports, music and outdoor, it gonna put one corresponding insert cells and it gonna be three. And what we want here is to make submit button up here, if this is three or more. So I am gonna use a simply "if" formula in the next cell which says if cell b9 is great or equal to 3, then put 1 or put 0. Right now it's zero, let's say when check box 1, 2, 3 are checked, which put inserts 1 in all 3 cells; you see my cell b10 which has if formula changed to 1. So I am gonna bind the submit button to cell B10.

现在，为了可以让提交按钮出现在这儿，如果有三个被选择了的话，我们该使用逻辑语言，在这里用公式。我们在这里要做的就是使用简单的求和公式：把 B3 到 B8 加起来。我们现在看到的是零。我们现在来选中“体育”，“音乐”和“户外”，插入相应的单元格中，加起来是 3。而我们想做的是要让提交按钮出现在这里，如果结果是 3 或更多的话。所以我要用简单的

“假设”公式，如果 B9 大于或者等于 3，然后输出 1 或 0。现在它为 0，比如复选框 1，2，3 都被选上了，它们就都被插入了数字 1。你看，根据“假设”公式，我的单元格 B10 已经变为 1。因此，我要去绑定提交按钮和单元格 B10。

So let's go to behavior tap, go to the status, bind to cell B10 and say appear here if B10 is 1. So let's go ahead and preview see what happens. On the initial mode, we don't have anything checked, I don't see the sub button, the user has to select at least 3 options in order to see or continue submit button. So select one, I don't see, I select two, I don't see, when I select three, then the user allow to perceive the submit button, so you can force user to follow requirement using dynamical visibility. What happen if I select 4, it is still remains. If I change to two, it disappears. So you need to select three to continue. Thanks you.

我们到“行为”标签下，在“状态”中，绑定单元格 B10，而且说明如果 B10 是 1，它就出现。我们现在预览，在原始的模式中，我们没有选中任何选项，所以我看不到提交按钮。用户至少得选中三个才能看见分按钮。我们选中一个，看不到，选中两个，还是没有，当我选中三个，这时用户被允许看到提交按钮，这样一来你可以使用动态可见来迫使客户按照要求。那如果我选了 4 个呢，提交键还是存在的，但当我减少到两个时，它就消失了。你至少要选三个才能看到。通过动态可视功能，就能创建互动型的仪表盘了。谢谢。