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When you drop the element onto the canvas, you will see a dialog like the one below:

Table Dialog	х
Properties:	Preview:
Number of rows: 2 Number of columns: 2 border: 0 border-collapse: collapse	
table-layout: fixed 💌 First row header:	
ОК	

The dialog contains the following options:

- Number of rows
- Number of columns
- *border* determines the thickness of the border around table cells (0 means no border)
- border-collapse corresponds to the border-collapse CSS property and determines whether the border is
 represented (or, collapsed) as a single border. The default for this option is collapse.
- table-layout corresponds to the table-layout CSS property and determines the algorithm used by the browser to layout the table. The possible values are:
 - auto means the browser will inspect all of the cells in the table to determine the widest unbreakable content in order to set column widths
 - fixed means the browser will use the table and column widths only and not inspect cell contents. While auto is the browser default, we've chosen to make fixed the default in Maqetta because it performs better and (most importantly) leads to the most predictable results as you place data in the table cells (e.g., column sizes will remain stable and most closely reflect any explicit widths you've set).
 inherit means the algorithm to use is determined by the parent element

If you change any of these values, the preview table in the dialog will automatically update to reflect the change. For our

Maqetta Widget Spotlight: HTML Tables (Maqetta: Visual Authoring of HTML5 User Interfaces)

purposes, you can just accept the defaults and click **OK**. After doing so, you will see a 2x2 table in the page editor. Note that if you ever want to change any of these options, you can relaunch this dialog by selecting the table and then doubleclicking on it.

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Adding Text and Widgets to Table Cells

Now, let's build on what we have done so far to create the start of a simple name/address form like I alluded to earlier. Let's start by adding some labels in the left column. Double-click on the first cell in the table and a dialog will appear with an editable text box. Type "First Name:" as shown below:

First Name:	
OK Cancel	

When you click **OK**, the text will appear within the cell in the page editor. NOTE: In Chrome, you may see the column size change when you insert the text into the first cell (despite the fact we have set table-layout to fixed). This is a known bug with the page editor in Release 7 of Maqetta. If you are using Chrome and you want the page editor to properly reflect the column width, then you can save, close, and reopen your file.

Next, double-click on the 2nd cell in the left column, enter "Last Name:", and click **OK**. You should see something like the following in the page editor:

First Name:	
Last Name:	

Next, let's add text fields to the right column of the table. Open up the *Dojo Controls* section in the Widget Palette, find the TextBox widget, and drag and drop it into the first cell of the 2nd column (the cell just to the right of "First Name:"). Then, repeat for the 2nd cell in the column. After doing so, you should see something like the following in the page editor:

irst Name:		
ast Name:		

Table Commands

In the next few sections, we're going to make further modifications to the table and its children. In order to do so, it's important that you be aware of the *Table commands* menu in the toolbar:



It contains the following actions that become enabled depending on what child elements of the table are selected:

- Select table provides a short-cut to select the parent table of the selected element
- Select column selects the parent column of the selected cell
- Insert column before adds a new column to the left of the currently selected cell or column
- Insert column after adds a new column to the right of the currently selected cell or column
- Remove column deletes the currently selected column (or the parent column if a cell is selected)
- Select row selects the parent row of the selected cell
- Insert row before adds a new row above the currently selected cell or row
- Insert row after --- adds a new row below the currently selected cell or row
- Remove row deletes the currently selected row (or the parent row if a cell is selected)

Changing Element Properties

Next, let's say we want to change the size of the first column to eliminate some of the white space between the labels and the text fields. To do so, we'll need to select the first column and modify its properties:

- 1. Select the first cell in the table.
- 2. From the Table commands menu described in the previous section, choose Select column.
- 3. With the column selected, you can make the column smaller by using the resize handles on the left and right sides of the column. You can also use the *Layout* section of the Properties Palette if you prefer to enter an explicit value for the width.

The screenshot below shows how the table might look once you've changed the column size:

Maqetta Widget Spotlight: HTML Tables (Maqetta: Visual Authoring of HTML5 User Interfaces)

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You may also wish to change the background color of the first column to better differentiate it from the 2nd column of text fields. In the screenshot below, I selected the column and changed the background color to #00FFFF (kind of a light blue) in the *Background* section of the Properties Palette:

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NOTE: Under the hood, as we change column properties the modifications are reflected in the CSS properties of the associated <col> element. If we were to select a row and change its properties, the changes would be reflected in the CSS properties of the associated > element.

Adding Table Elements

Now, let's say we want to collect additional data in our form. For example, we may want to collect the user's sex. To do so:

- 1. Select a cell in the 2nd row (for example, the one that says "Last Name:").
- From the Table commands menu described in the last section, choose Insert row after. This will insert a new, empty row at the bottom of the table. Alternatively, we could have opened up the table configuration dialog and changed the row count there.
- 3. Double-click on the first cell in the last row, enter "Sex:" into the dialog, and click $\ensuremath{\text{OK}}$.
- 4. From the *Dojo Controls* section of the Widget Palette, drag and drop a ComboBox widget into the cell just to the left of the "Sex:" cell.

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- 5. Enter the following in the input dialog for the ComboBox and click OK.
 - Male Female

After doing this, your table should look something like the following:

First Name:			
Last Name:			
Sex:	Male	-	

A Word on Cell Padding (Advanced)

At this point, we've touched on all of the main features for creating and manipulating tables in Maqetta, and we've created a nice little table. But, you may also notice that the table contents are a bit crammed together (e.g., the two text fields and the combo box are almost touching). This is because of style rules found in the *document.css* style sheet required by Dojo. These rules cause there to be no spacing on elements (even if the cellpadding property is set directly on the

One way to alleviate this (without selecting each cell in the table and manually setting the padding) is to add a general style rule to *app.css*. There is more information about what *app.css* does and how to work with it in the Maqetta documentation, but for the purposes of this article you can do the following:

- 1. Find app.css in the Files Palette and open it by double-clicking on it.
- 2. Add the style rule below to the app.css file:

#myapp	td,	#myapp	th	{		
padd	ing:	5px;				
}						

- 3. Save the app.css file.
- 4. Save and reopen your HTML file so that the app.css changes are picked up.

Now, your table should look something like the following in the page editor (with a padding of 5px added to each cell):

First Name:			
.ast Name:			
Sex:	Male		
ex:	Male	*	

Note, however, this is not a perfect solution as this definition interferes with the the styling of Dojo widgets that create elements behind the scenes. For example, if you were to add a Calendar to the page from the *Dojo Controls* section of the Widget Palette, you'd see it has a lot of extra spacing in it:

st N	ame:					
Sex:			Male			
•		0	ctober	-		•
s	м	т	w	т	F	s
30	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3
4	5	6	7	8	9	10
	201	1	2012	2	013	

So, if you have a need to use such Dojo widgets in your page, a more robust (but slightly more complicated solution) would be to do the following:

- 1. Select the table. You can do this by selecting a cell in the table and then choosing **Select table** from the *Table commands* menu in the toolbar.
- 2. Right-click on the selected table and choose Surround with <DIV> from the context menu.
- 3. In the Properties Palette, change the id of the div to myTableDiv.
- 4. In app.css, edit the style rule you added earlier so that instead of being applied to myapp (which corresponds to the <body> element) it will be applied to myTableDiv (which corresponds to the new div surrounding your table):

#myTableDiv td, #myTableDiv th {
 padding:5px;
}

- 5. Save the *app.css* file.
- 6. Save and reopen your HTML file so that the app.css changes are picked up.

After doing so, you will see the calendar (which is outside the *myTableDiv* <div> element) is now rendered correctly while your table cells still have the desired spacing:

tober V T F S 3 4 5 6 10 11 12 13 17 18 19 20 24 25 26 27 24 4 7 7
W T F S 3 4 5 6 10 11 12 13 17 18 19 20 24 25 26 27
3 4 5 6 10 11 12 13 17 18 19 20 24 25 26 27
10 11 12 13 17 18 19 20 24 25 26 27
17 18 19 20 24 25 26 27 24 4 2 2
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A Word on Styling the Header Row (Advanced)

While we're on the topic of adding style rules to *app.css*, I wanted to briefly discuss styling of the header row. Like with cell spacing, the *document.css* stylesheet interferes with the styling of <th> elements.

So, for example, to create the table in the screenshot below I did the following:

- 1. Create a new HTML file.
- 2. Add a element from the Widget Palette to the file.
- 3. In the table configuration dialog, set number of columns to 4 and check the box for First row header.
- 4. Enter text into all of the cells (e.g., "Header 1", etc. in the first row and "Cell 1", etc. in the second row).

eading 1	Heading 2	Heading 3	Heading 4
ell 1	Cell 2	Cell 3	Cell 4

Right away, you probably notice that the styling for the header row is exactly the same as the styling for the second row. To solve this, we can add the following style rule to *app.css*:

#myapp t	ch {
	font-weight: bold;
	text-align: center;
}	

After saving *app.css* and saving/closing/reopening my HTML file, I see the following (with the contents of the header cells bold and centered):

NOTE: The rule is applied to myapp (the body) and could instead be applied to a div surrounding the table like I described for padding in the previous section.

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