

WIPC - Widgets Interview Programming Challenge 2017

SimpleSpreadSheet

Expected Level of Effort by Seniority

Junior Level – One week

Senior Level – 2 days

Staff Level+ – 1 day or same day

Features you must develop

Two text inputs, one labeled “Rows” and one labeled “Columns” and a “Generate” button

- If you specify the **Rows** and **Columns** values and submit, it will generate a spreadsheet table at that size
- Cells should be uniform in size and never change size. If values inside cells are too big, show ellipses.
- Show Column and Row labels (Alpha characters for columns, numbers for rows)

If you click on a cell once, you select that cell. It should have an outline color to indicate selection

- If you hit the delete key while a cell is highlighted, it erases the value in that cell
- If you press the Enter key, the selection should move one row down. Shift+Enter moves selection one row up
- If you press the Tab key, the selection should move one column right. Shift+Tab moves selection one column left.

If you double-click on a cell, it becomes a text input, you can enter in any value

- Text input should be styled to fit within cell and to look like a cell to give the appearance of editing-in-place
- Hitting Enter or Tab key submits value
- Hitting ESC key cancels
- Clicking outside of cell submits value
- When value is submitted, the text input disappears and the value displays in the cell

Below your table add a textarea and two buttons: “EXPORT” and “IMPORT”

- “EXPORT” button exports the data in the table as JSON into the textarea
- “IMPORT” button imports JSON from the text area
- Create your own data format for this

Styling the table

- Each cell should have a border of 1px set to the color #999999
- Every EVEN row should have a #FFFFFF background color
- Every ODD row should have a #EEEEEE background color
- Row and Column labels should have a background color of #CCCCCC
- All text should be black

Programming Rules and Limitations

- You may only use JavaScript, CSS, HTML, and the jQuery library.

- **No other plugins, libraries, or frameworks allowed.**
- You must write everything yourself. Do not copy solutions from online or get help from someone else.
- Work inside a folder. Inside should be:
 - an **index.html** file, where you'll put your HTML
 - a **spreadsheet.js** file, where you'll put your code
 - a **spreadsheet.css** file, where you'll put your CSS
 - **jquery.min.js**
- Deliver your folder inside a zip file to: [Benjamin Friend](#)

Areas we will focus on

- How your table is generated
- How dynamic is your code
- How efficient is your spreadsheet
- How well do you use CSS to style your spreadsheet
- How good is the User Experience
- How good are your programming skills
- How well do you know Mouse and keyboard events
- How familiar are you with HTML, CSS, and JavaScript
- How you handle your data model
- How original is your code