Center-Stage VBA Macro

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Deliverable

- One excel VBA macro that will be run (eventually through a keyboard shortcut) in one of two conditions – the "Original" and the "Presentation" conditions. The macro moves the condition of the worksheet between the two

- When run in the Original condition, the macro will hide some columns that are currently displayed

- When run in the Presentation condition, the macro will restore the worksheet to the Original condition

Original Condition

- There **is** a frozen section of the worksheet – that is, Freeze Panes has been executed to prevent scrolling from affecting a number of columns starting with the first column on the left

- There **may** be one **or more** columns already hidden

- One **or more** cells to the **right** of the frozen section are selected

- **At least one** of the selected cells is NOT empty

- If these conditions are NOT met, the macro should exit gracefully, leaving the sheet in the Original condition

Example of Original Condition

- Columns are A_f, B_f, C_f, D_f, E_fh, F_f, G_fh,H,I,J,K_h,L..
- Here, _f indicates that the column is part of the frozen section.
- "h" after _ indicates that the column is also hidden (in the above example, there are two columns within the frozen section that are hidden and one outside of it that is hidden)
- A_f, B_f, C_f, D_f, E_f,F,G,H,I.. is also a valid Original condition (here, no columns are hidden and A through E are frozen)
- Let us say columns L and M in both above cases are non-empty. Then, if cells L5 and M5 are selected and at least one of them is non-empty, then macro should assume conditions are met for proceeding

Presentation Condition

- The frozen section is not altered in any way

- The unfrozen section is altered so as to hide all columns **between** the frozen section and the columns containing the selection

- In effect, the columns that the selection belong to are now adjacent to the frozen section and they are "Center stage"

Restoration (Going back to Original)

- The macro must somehow keep track of hidden columns outside the frozen section in the Original condition

- When returning to the Original condition, these columns should continue to be hidden

- This is redundant information given that we have defined Original and that the macro restores to Original when run in Presentation mode, but just being emphasized for clarity

- It **may** be necessary to tag the worksheet in some way to indicate that it is in Presentation mode – an implementation detail left to developer

Tests

- Verify that the macro does nothing when selection has only empty cells

- Verify that macro restores to Original condition with already-hidden (that is, before going into Presentation) columns in the non-frozen section correctly hidden as before

Attachment

- The "Data" worksheet can be used for testing

- If cells O4:P4 are selected, then the conditions for running macro are not met, so the macro should exit gracefully

- If the cell BB23 or the group of cells BB23:24 and BC23:24 are selected, then after running, the display of row names should show "A,B..G,H,BB,BC,BD.."

- In this (Presentation) condition, if the macro is run, then the J,K..,BA should get unhidden (that is, I should still be hidden because it was hidden Originally)