

## Exercise: Divergent stacked bar charts

### Dataset:

USCS-Cancer-cases-female-2020.csv

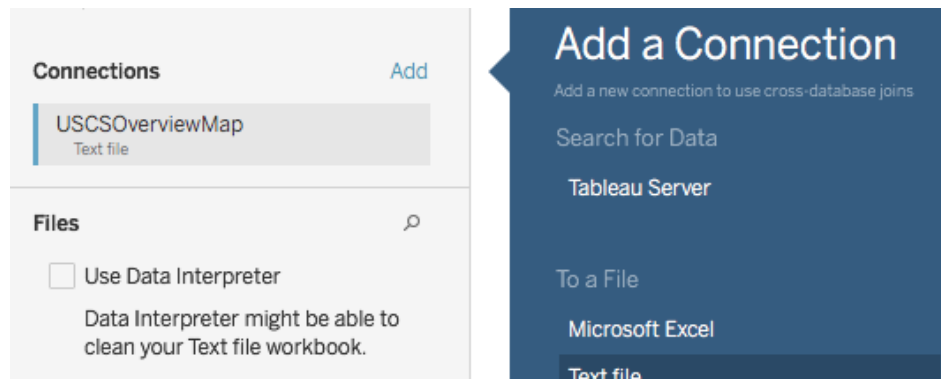
USCS-Cancer-cases-male-2020.csv

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1. Connect to the dataset *Cancer-cases-female-2020.csv* and drag the table to the view.
2. Edit your field names as follow:

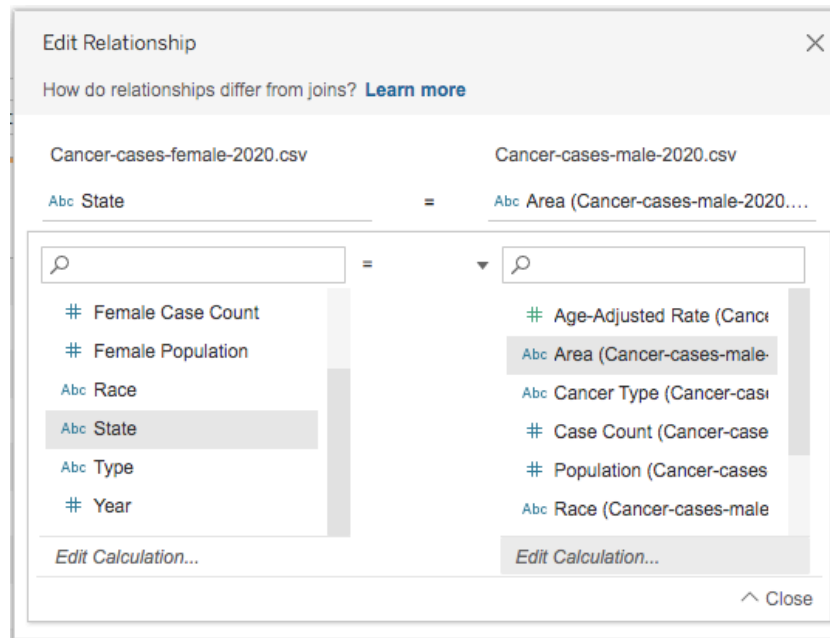
Abc	Abc	#	Abc	Abc	Abc	#	#	#
Cancer-cases-female-202...	Cancer-cases-female-202...	Cancer-cas...	Cancer-cases-fem...	Cancer-cases-female-2020.csv	Cancer-cases-fe...	Cancer-cases-female-2020.csv	Cancer-cases-female-2020.csv	Cancer-cases-female-2020.cs
State	Cancer Type	Year	Female	Race	Type	Female Age-Adjust...	Female Case Count	Female Population

3. Add a connection to the *Cancer-cases-male-2020.csv*.



4. Create a relationship with both tables using the “State” and “Area (...)” fields for each table respectively.

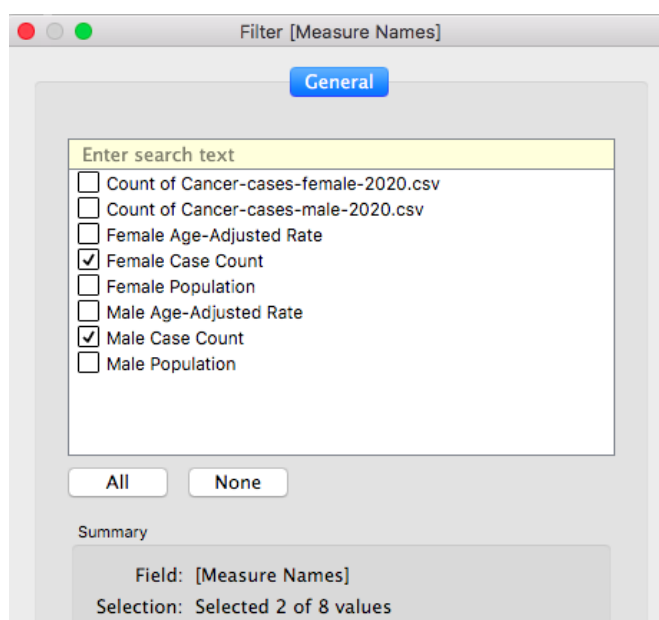




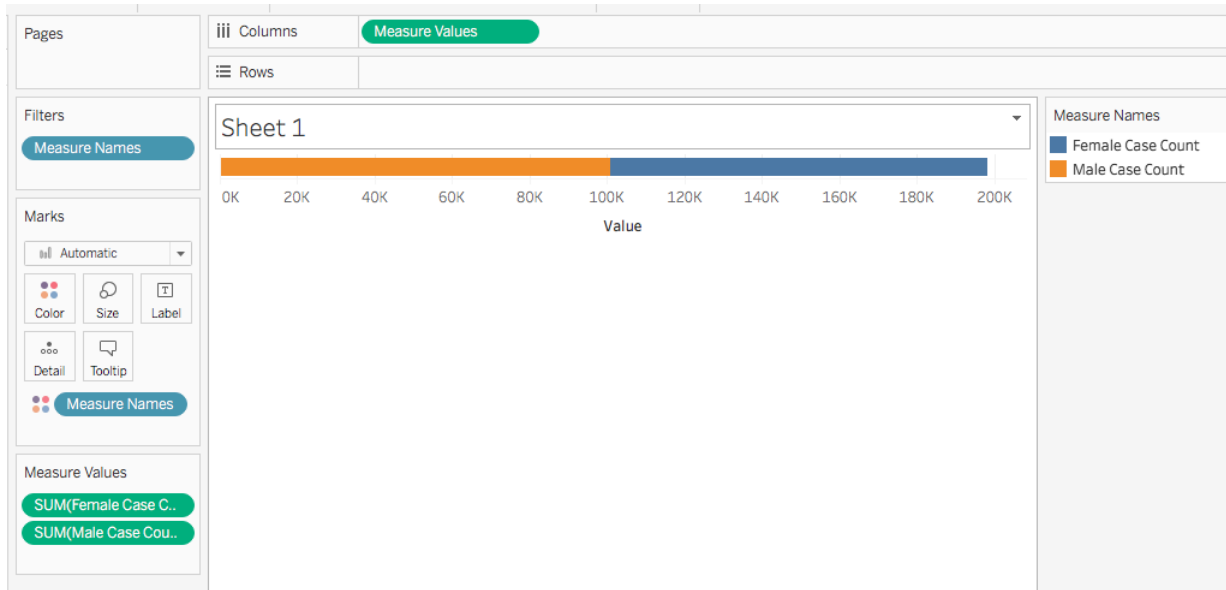
5. Hide all the duplicate columns in the second table (*Cancer-cases-male-2020.csv*) and rename your fields as follow:

Abc	#	#	#
Cancer-cases-...	Cancer-cases-male-2020.csv	Cancer-cases-male-2020.csv	Cancer-cases-male-2020.csv
<b>Male</b>	<b>Male Age-Adjusted Rate</b>	<b>Male Case Count</b>	<b>Male Population</b>

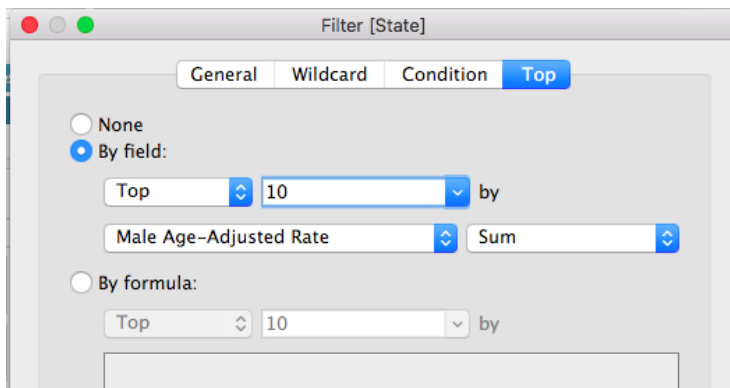
6. Go to *Sheet 1* to start your visualization.
7. Drag *Measure Names* to Filter and select the case counts for Male and Female as follow:



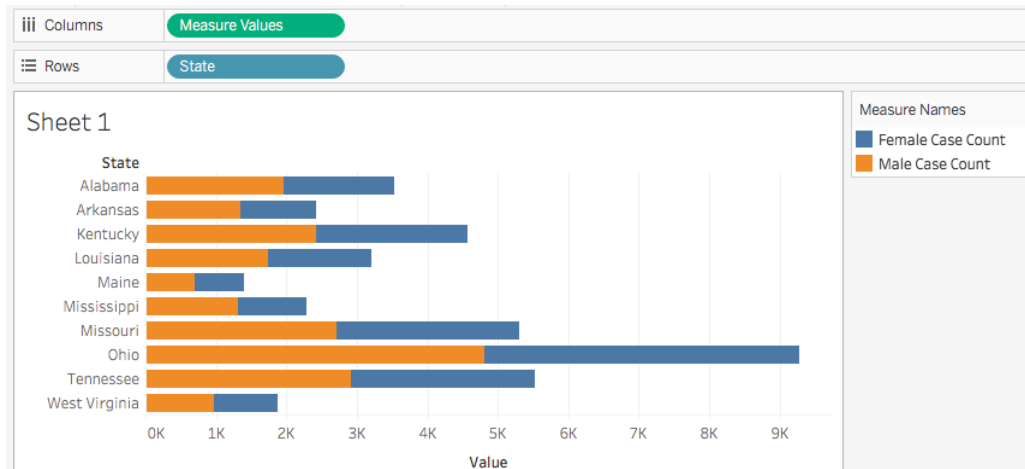
8. Drag *Measure Values* into Columns, and then *Measure Names* into the Color Marks.



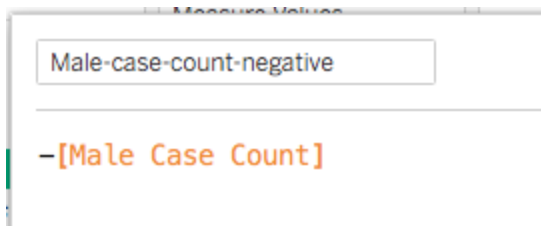
9. Drag *State* to Filter and select the tab top with “By field” as follow:



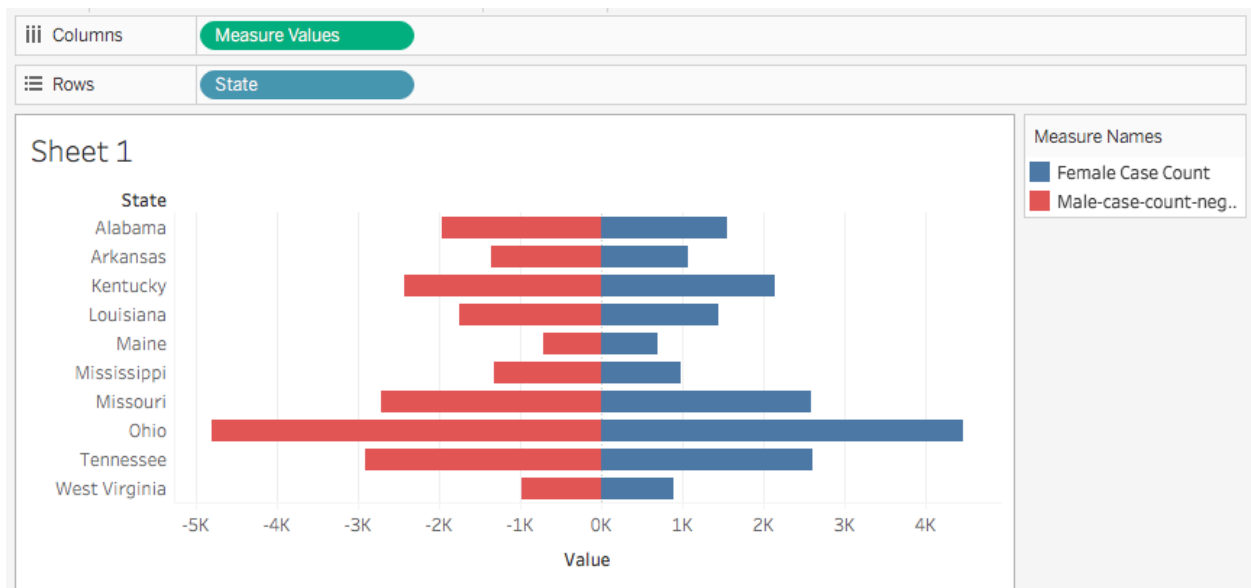
10. Drag *State* to the Rows Shelf to display a stacked bar chart with the 10 States.



11. Create a calculated field as follow:

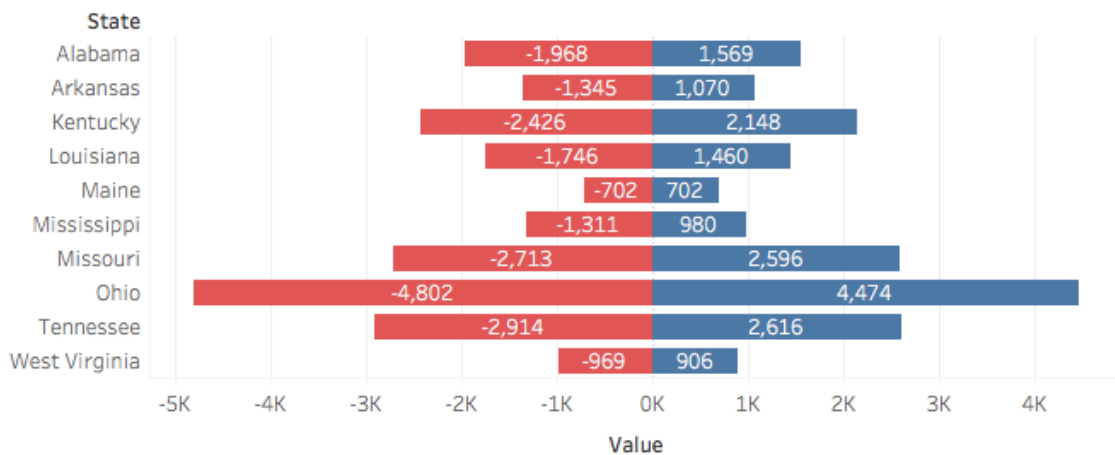


12. Replace in the Mark Cards *Male Case Count* by the newly created field. Your graph should now be as follow:



13. Drag Measure Values to Label and change the number to white.

Sheet 1



14. Format your *Male-case-count-negative* numbers as follow:

Default

Numbers: 123,456

Measure Names

State

Number (Custom)

Decimal places: 0

Negative values: (1234)

Display Units: None

Prefix / Suffix:

☒ Include thousands separators

Measure Values

Then

Custom

Format: #,##0;#,##0

15. Remove the field label and axis from the graph. Remove all the noise and add a title.  
Your final graph should be as follow:

