

XL1B: V0H Graph Categorical Count Data using Excel2013 1

Graph Categorical Two-Way Count Data using Bar Charts

by
Milo Schield
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*Related materials at www.StatLit.org/pdf/Excel2013-Graph-Nominal2C-Slides.pdf
[Excel2013-Graph-Nominal2C-Output.pdf](http://www.StatLit.org/pdf/Excel2013-Graph-Nominal2C-Output.pdf)*

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Goal: Create Bar Charts based on Categorical Counts

Assignment: Create six column charts:

- Two clustered column charts: 1 and 2
- Two stacked column charts: 3 and 4.
- Two 100% stacked column charts: 5 and 6.

‘Stacked column’ is different from ‘100% stacked column’

Data is from the 2014 Pew Survey on Religion in the US.
www.pewforum.org/2015/05/12/americas-changing-religious-landscape/

Data for this assignment is available at:
www.StatLit.org/XLS/Excel2013-Graph-Nominal2C-Data-Input.xlsx

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Three Kinds of 2D Column Charts

Insert Column Chart Select 2D cluster chart

Use this chart type to visually compare values across a few categories. Click the arrow to see the different types of column charts available and pause the pointer on the icons to see a preview in your document.

Three kinds 2D charts Cluster, stacked and 100% stacked.

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Input Data: See Count tab; Range B2:G5

XL1B US Race/Ethnic Composition by Religious Group

	B	C	D	E	F	G	H
1							
2	Religious Tradition	White	Black	Asian	Other	Latino	Sample Size
3	Christian	16,629	2,787	456	817	3,908	24,582
4	Religious, non-Christian	965	94	347	49	76	1,529
5	Unaffiliated/None	5,050	668	371	297	966	7,427
6	TOTAL	22,644	3,549	1,174	1,163	4,950	33,538

Counts

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#1: Select B2:B5, Hold CTRL, D2:D5, G2:G5. Insert col cluster

Modify title

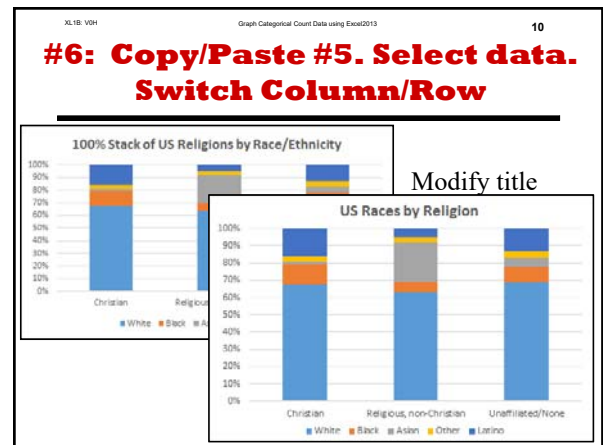
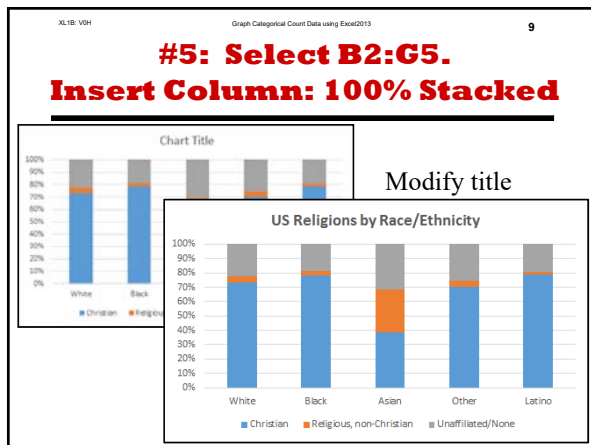
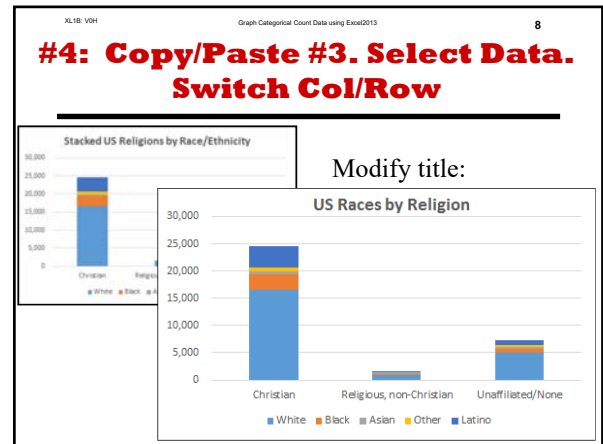
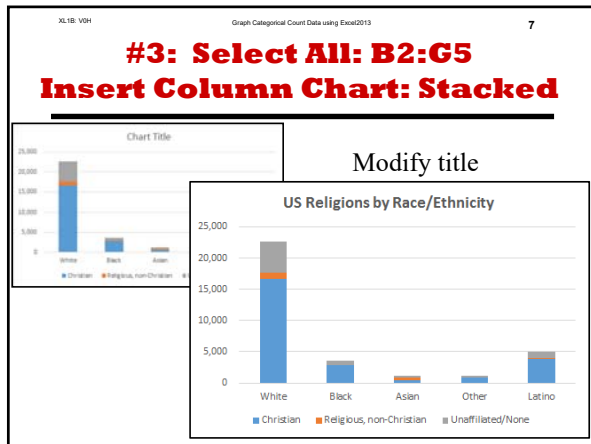
Black & Latino by Religion

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#2: Copy #1 Chart. Select data. Switch Column/Row

Modify title

US Religions by Blacks & Latinos



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Conclusion

You have created these six types of graphs

1, 3, 5: Column data; column graphs

2, 4, 6: Row data; column graphs

This could be done using row graphs in place of column graphs.

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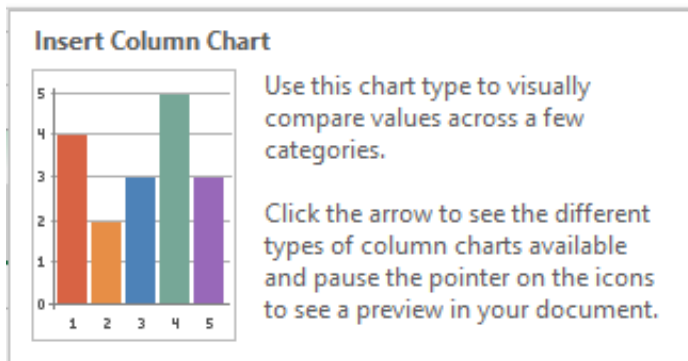
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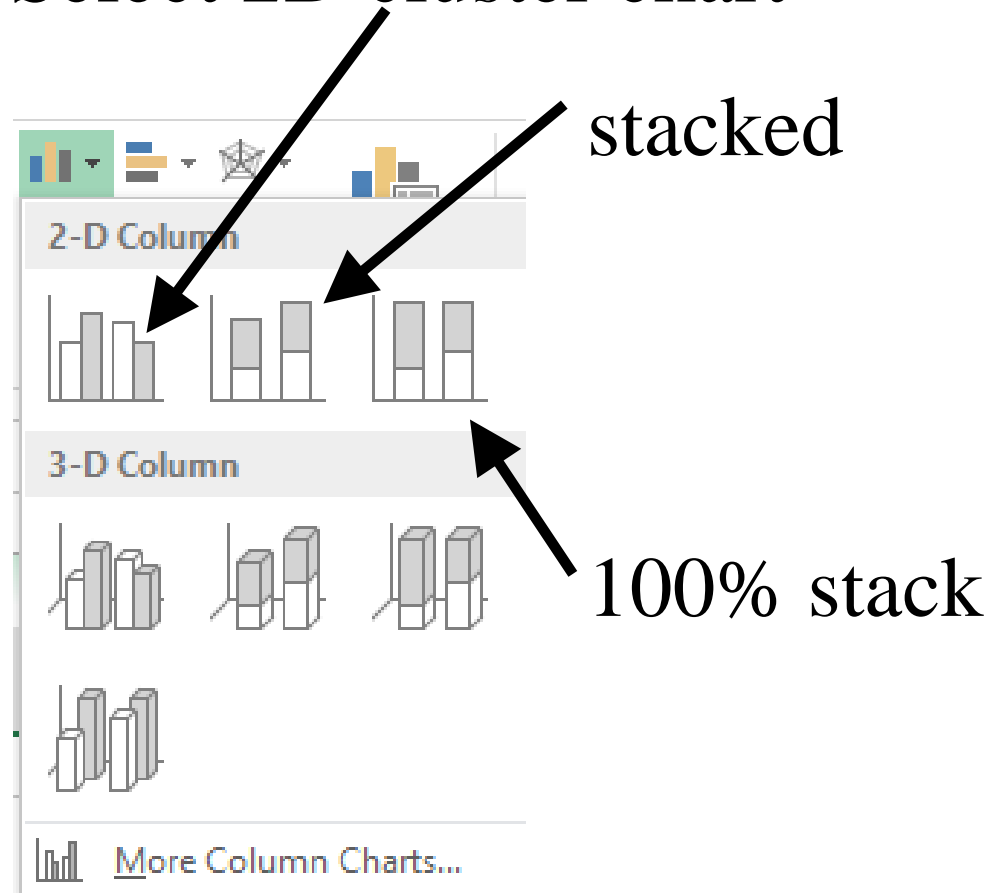
Three Kinds of 2D Column Charts

Insert Column Chart



Three kinds 2D charts
Cluster, stacked and
100% stacked.

Select 2D cluster chart



Input Data:

See Count tab; Range B2:G5

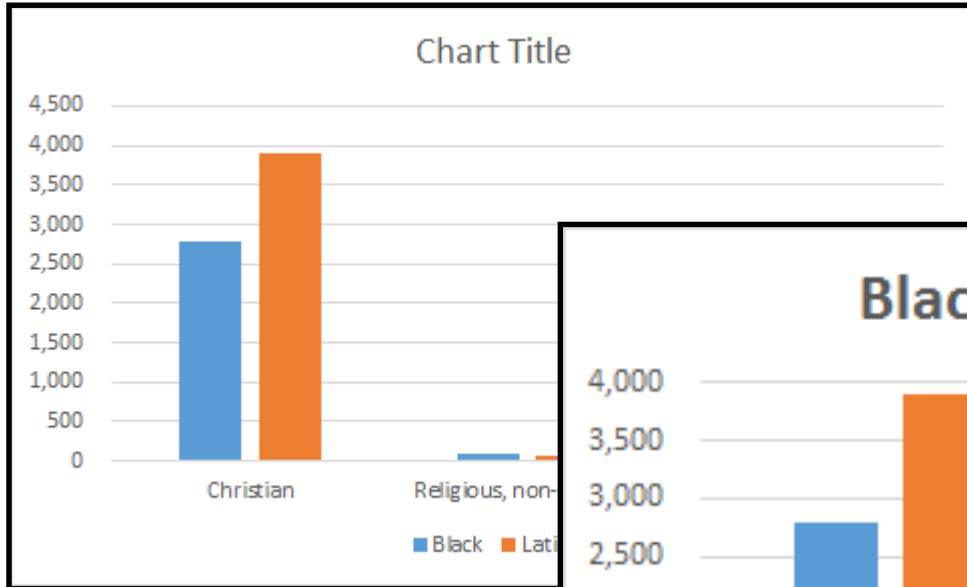
XL1B

US Race/Ethnic Composition by Religious Group

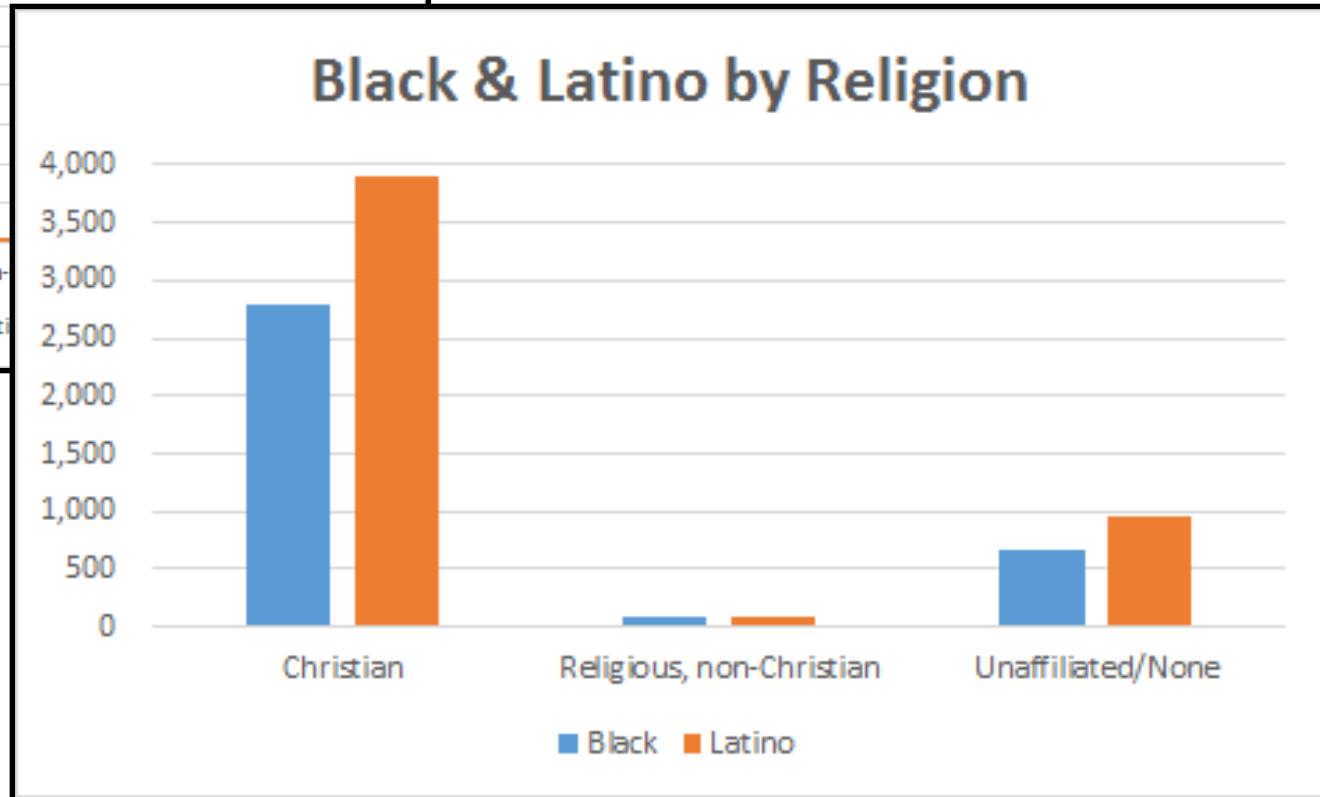
1	B	C	D	E	F	G	H
2	Religious Tradition	White	Black	Asian	Other	Latino	Sample Size
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6	TOTAL	22,644	3,549	1,174	1,163	4,950	33,538

Counts

#1: Select B2:B5, Hold CTRL, D2:D5, G2:G5. Insert col cluster

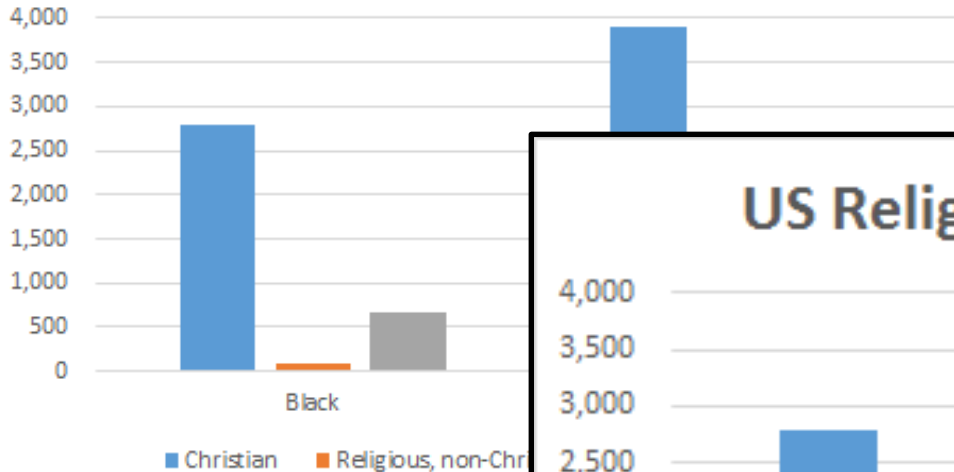


Modify title



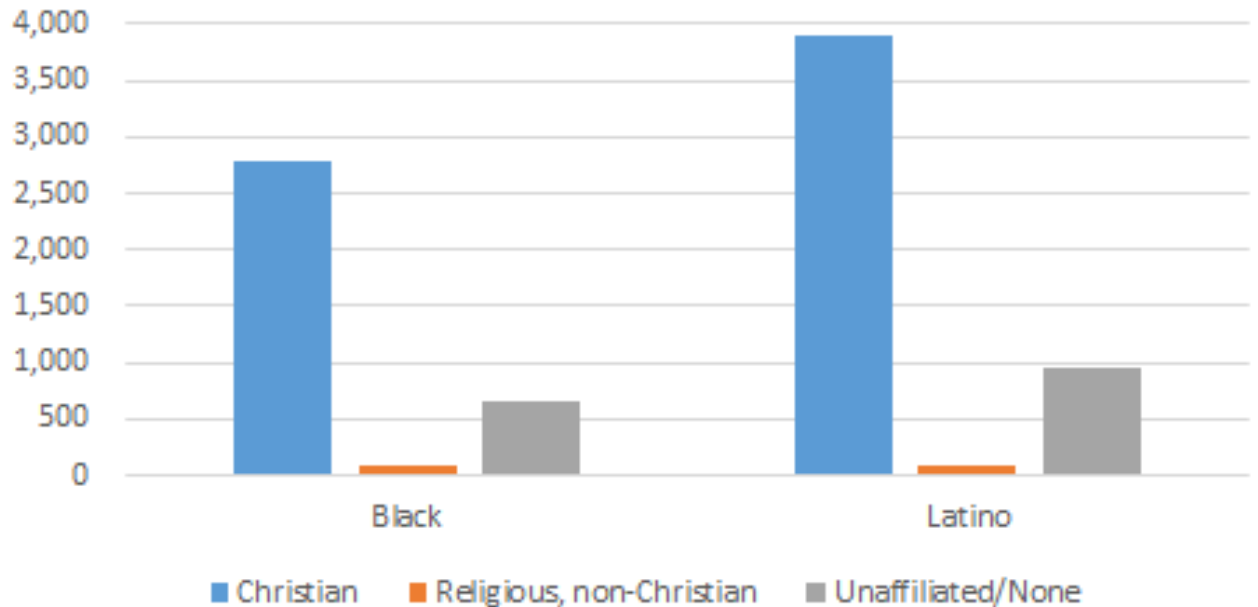
#2: Copy #1 Chart. Select data. Switch Column/Row

Black & Latino by Religion



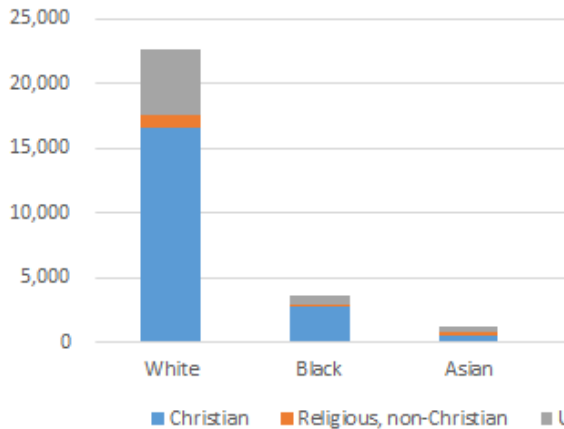
Modify title

US Religions by Blacks & Latinos



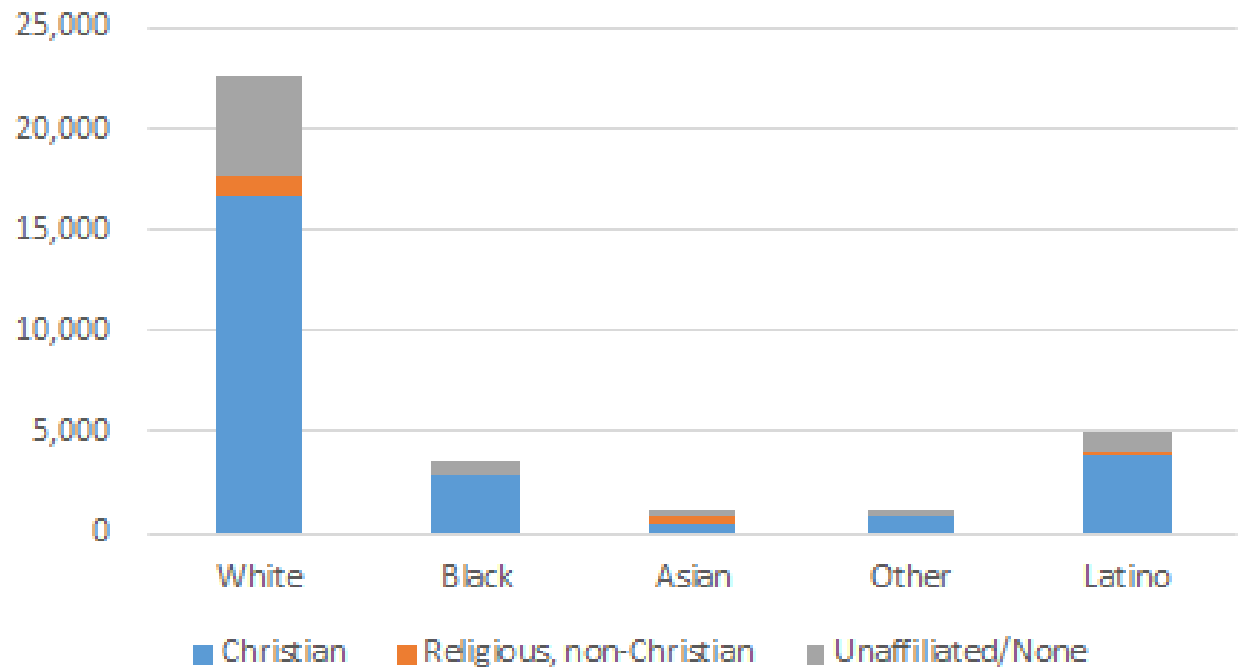
#3: Select All: B2:G5 Insert Column Chart: Stacked

Chart Title

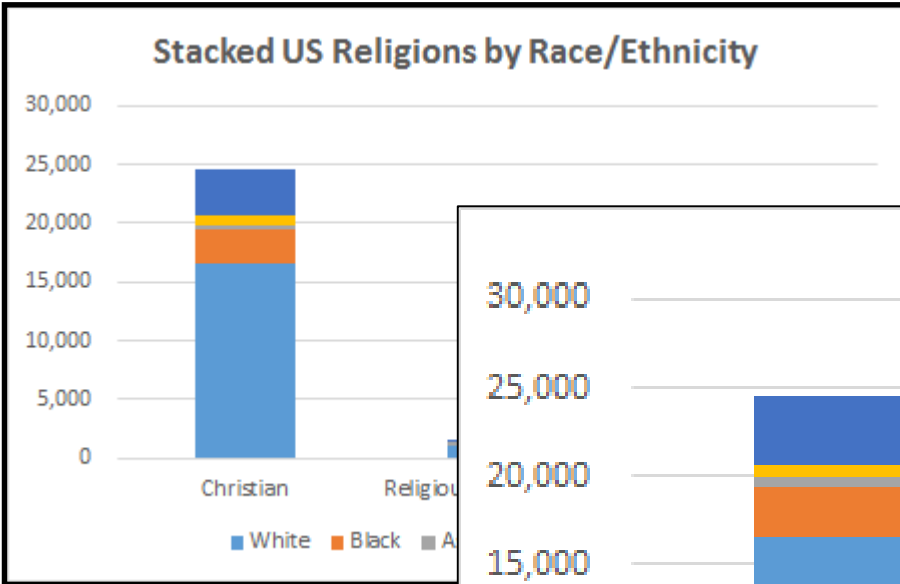


Modify title

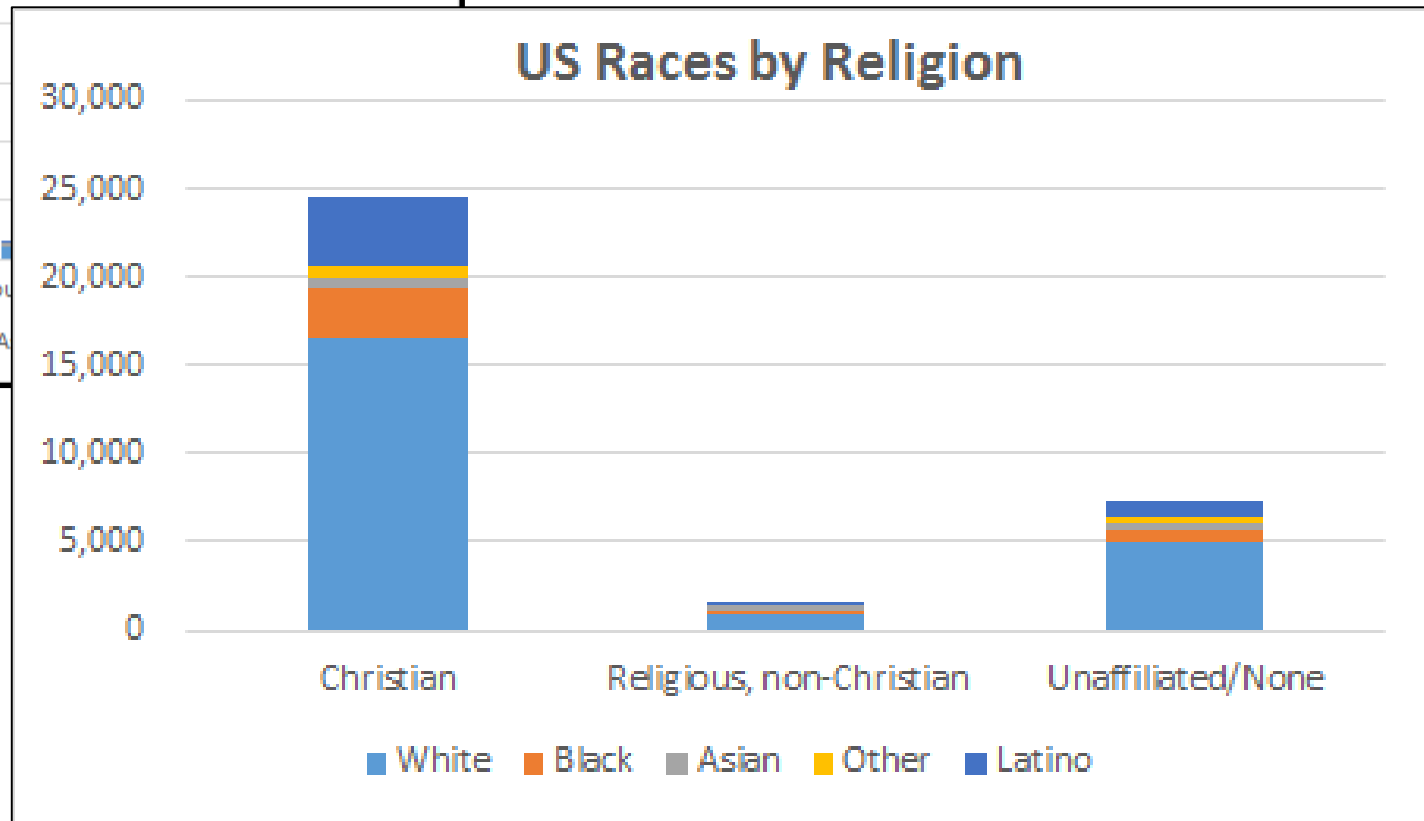
US Religions by Race/Ethnicity



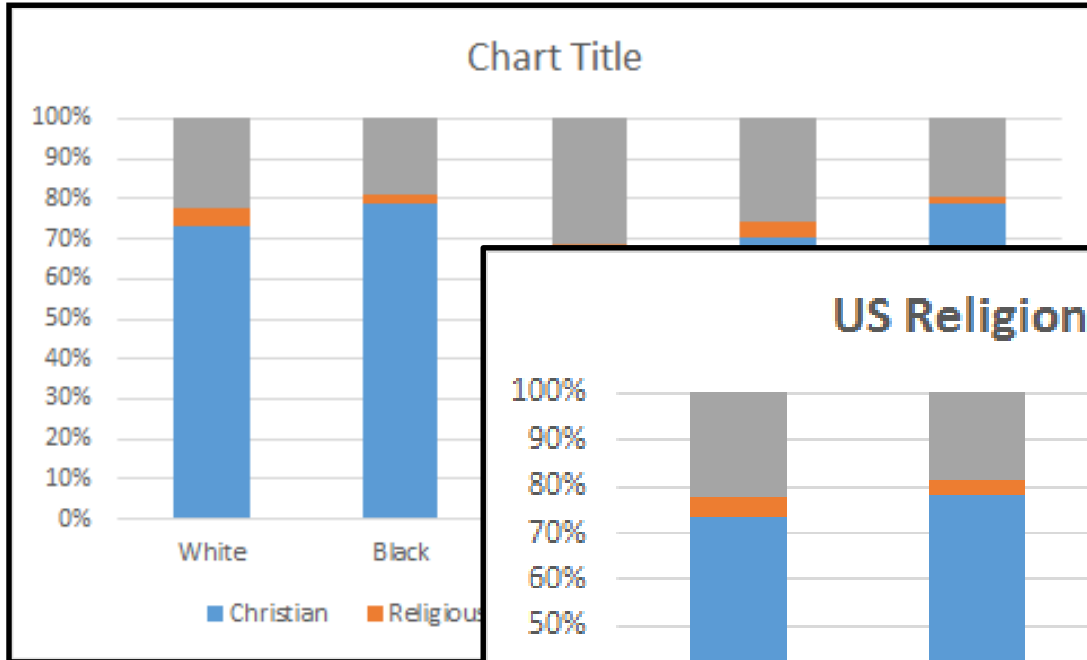
#4: Copy/Paste #3. Select Data. Switch Col/Row



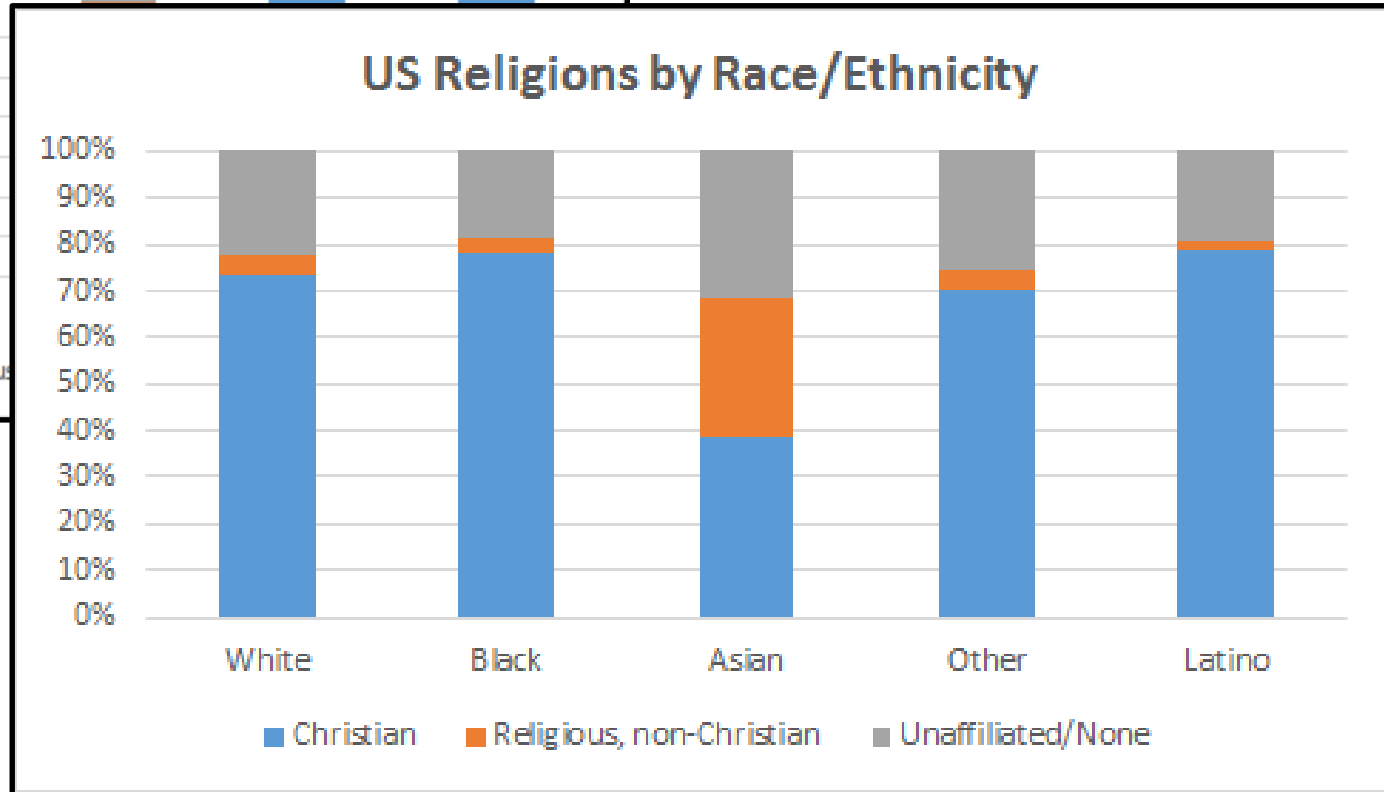
Modify title:



#5: Select B2:G5. Insert Column: 100% Stacked

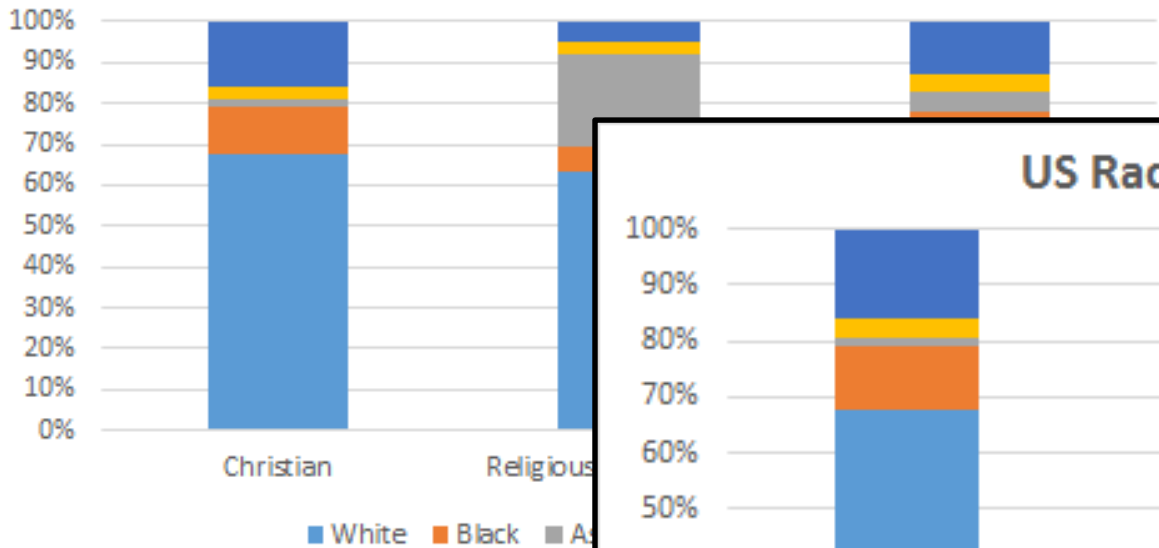


Modify title



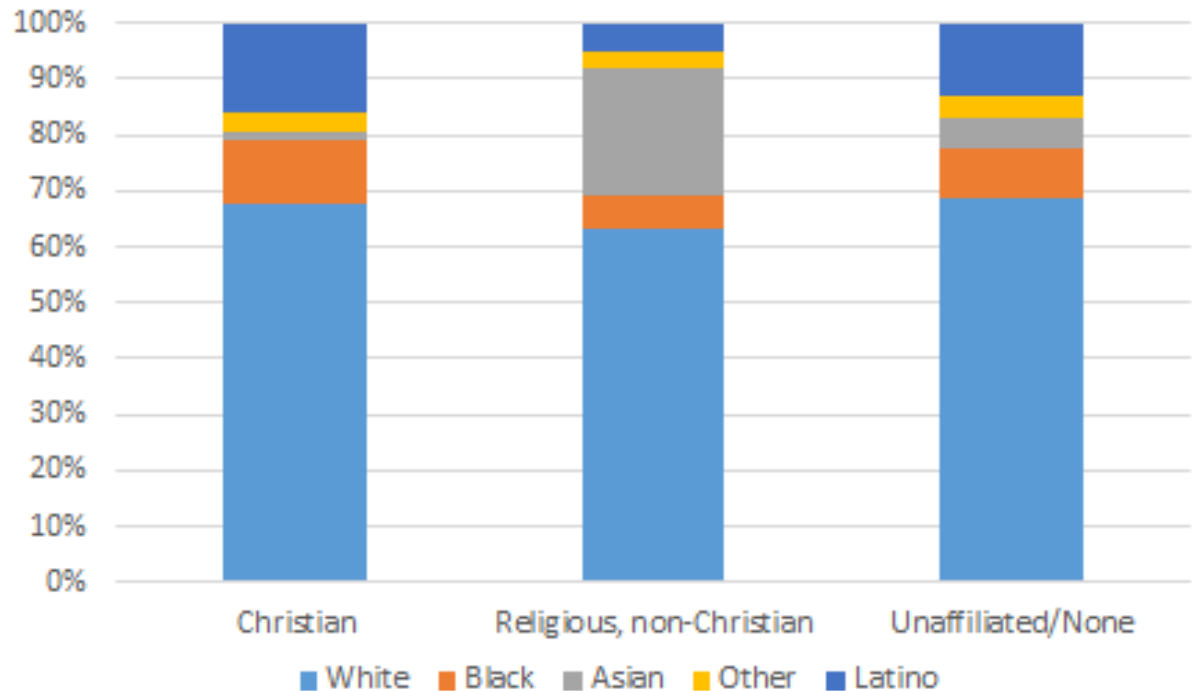
#6: Copy/Paste #5. Select data. Switch Column/Row

100% Stack of US Religions by Race/Ethnicity



Modify title

US Races by Religion



Conclusion

You have created these six types of graphs

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2, 4, 6: Row data; column graphs

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