

# Stat 101L: Lecture 3

## Categorical Data

- National Opinion Research Center's General Social Survey
- In 1996 a sample of 1895 adults in the U.S. were asked the question "When is premarital sex wrong?" The participants were also asked with what religion they were affiliated.

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## Who?/What?

- Who?
  - A sample of 1895 adults.
- What?
  - Opinion on premarital sex.
  - Religious affiliation.

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## What?

- When is premarital sex wrong?
  - Categorical: Always, Almost Always, Sometimes, Never
- What is your religious affiliation?
  - Categorical: Catholic, Jewish, Protestant, None, Other

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# Stat 101L: Lecture 3

## Data Table

Adult	Answer	Religion
1	Never	Catholic
2	Always	Protestant
3	Never	Jewish
4	Sometimes	None
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## When is Premarital Sex Wrong?

Class	Count	%
Always	452	23.85
Almost Always	183	9.66
Sometimes	429	22.64
Never	831	43.85
Total	1895	100

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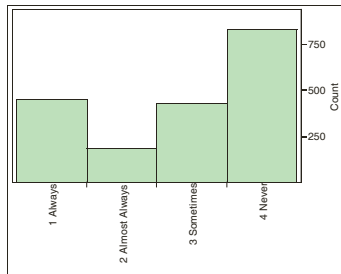
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## Bar Chart



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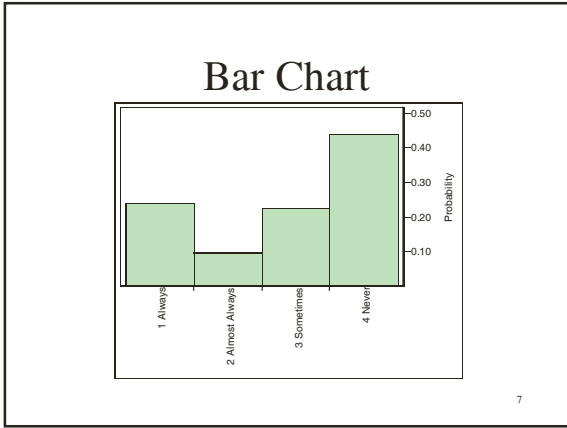
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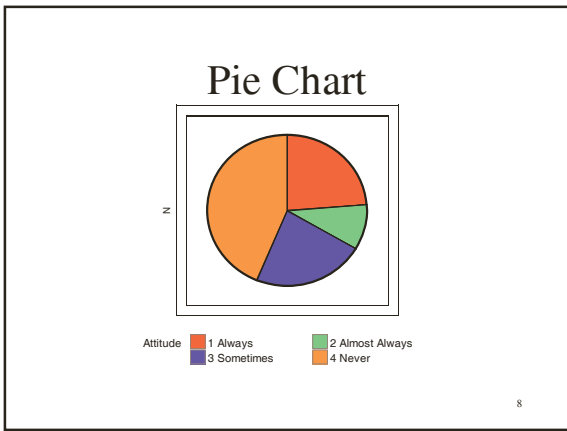
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### When is Premarital Sex Wrong?

Religion	Always	Almost Always	Sometimes	Never	Total
Catholic	62	37	120	226	445
Jewish	0	3	14	34	51
Protestant	355	117	227	384	1083
None	20	13	45	147	225
Other	15	13	23	40	91
<b>Total</b>	<b>452</b>	<b>183</b>	<b>429</b>	<b>831</b>	<b>1895</b>

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## When is Premarital Sex Wrong?

Religion	Always	Almost Always	Sometimes	Never	Total
Catholic	13.9%	8.3%	27.0%	50.8%	100%
Jewish	0.0%	5.9%	27.4%	66.7%	100%
Protestant	32.8%	10.8%	21.0%	35.4%	100%
None	8.9%	5.8%	20.0%	65.3%	100%
Other	16.5%	14.3%	25.3%	43.9%	100%

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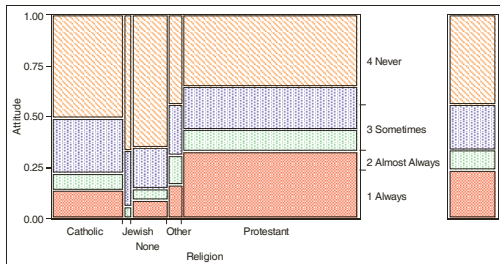
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## Mosaic Plot



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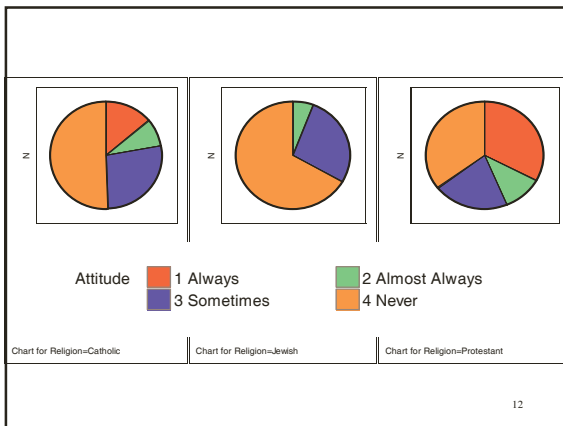
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