















Conclusions

- With our current data findings, we can't confirm whether or not there is any correlation between rainfall and deforestation.
- We did find that there is a trend in rainfall around 2015 across all states in Brazil.
- Since the chi square value of 281.74 exceeds the critical value of 33.92, we conclude that the results are statistically significant. We reject our null hypothesis.

Brazil	p_value	critical_value	chi_square_value
Total_Rain_mm	6.05E-47	33.92	281.74

State	p_value	critical_value	chi_square_value
AC_mm	1.47E-147	33.92	764.97
AM_mm	5.49E-106	33.92	567.57
AP_mm	3.27E-98	33.92	530.41
MA_mm	2.11E-174	33.92	891.65
MT_mm	0	33.92	1557.77
PA_mm	1.07E-80	33.92	446.32
RR_mm	8.57E-298	33.92	1469.86
TO_mm	1.24E-99	33.92	537.21
Total_Rain_mm	6.05E-47	33.92	281.74



- There are many other potential variables that can contribute to rainfall trends besides deforestation such as coastal relationship, wind & altitude.
- If we had more time to explore this topic, we would pull more rainfall data on



Challenges

- We worked with very large data files thus creating lots of issues with Git pushes.
- Our largest file had roughly 12 million rows of data.
- Had to create a new project repo using gitignore to exclude large files.
- We also had some merge conflicts with Github.

