

loop-school-of-thought

PROJECT

Analyze A/B Test Results

A part of the Data Analyst Nanodegree Program

PROJECT REVIEW		
	NOTES	
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	Specifications	
CONG	RATULATIONS !!!!	
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https://softwareengineering.stackexchange.com/questions/254475/how-do-i-move-away-from-the-for-

```
\label{eq:new_converted_simulation} $$ = np.random.binomial(n_new, p_new, 10000)/n_new $$ old\_converted\_simulation = np.random.binomial(n_old, p_old, 10000)/n_old $$ p_diffs = new\_converted\_simulation - old\_converted\_simulation $$
```

- Essentially, we are applying the null proportion to the total size of each page using the binomial distribution. Each element, for example, in np.random.binomial(n_new, p_new, 10000) results in an array with values like [17262, 17250, 17277...]. This array is 10000 elements large
- When we divide it by n_new , Python broadcasts n_new for each element and we return a proportion for each element.
- This is essentially is simulating, 10000, the new page conversion rate.
- We do this again for the old page.
- The difference of the two will result in a simulated difference array of length 10000 between the new page and old page conversions.
- Note that this method does not require you to calculate the null values to get the p-value.

Statistical Analyses

All results from different analyses are correctly interpreted.

For all numeric values, you should provide the correct results of the analysis.

AWESOME

Getting the stats calculations for both the simulation and z-test correct is difficult at this stage. Great work.

Conclusions should include not only statistical reasoning, but also practical reasoning for the situation.

- **Spot On!!!** Great intuition with the relationship between the different hypotheses statements.
- Extra Credit Knowing that Part iii is a two-tailed test and Part ii is a one-tail test, can you convert the p-values between each other?

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