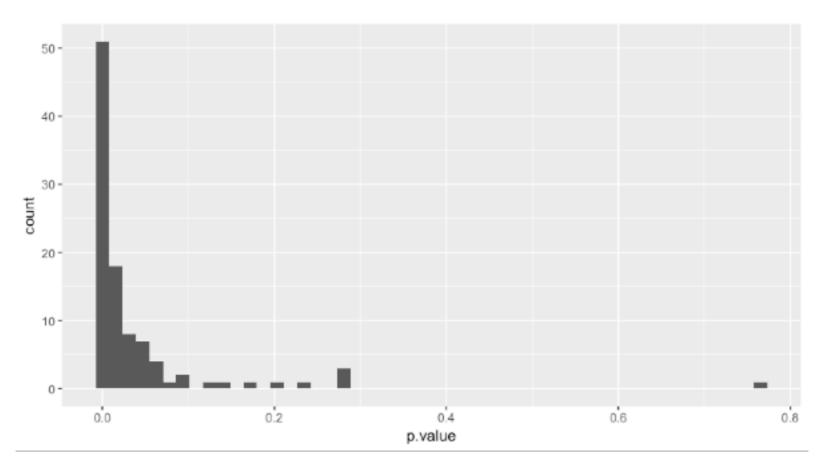
- We actually need 200(!) participants to give us 80% power for a Cohen's d = .4
- Let's run the 100 simulations again but this time we'll set sample size to 200 - here's the histogram of the p-values - 80 of the t-tests are now significant at < .05:



- If we zoom in and look at p-values < .05 we'll see lots of tiny ones this is what we would expect to see in the literature but instead analysis has shown more p-values at the threshold of significance (i.e, just below .05) than we would expect - suggests possible phacking and other QRPs.
- Nathan C. Leggett, Nicole A. Thomas, Tobias Loetscher & Michael E. R. Nicholls (2013).
 The life of p: "Just significant" results are on the rise. The Quarterly Journal of Experimental Psychology, 66, 2303-2309. http://dx.doi.org/10.1080/17470218.2013.863371

