



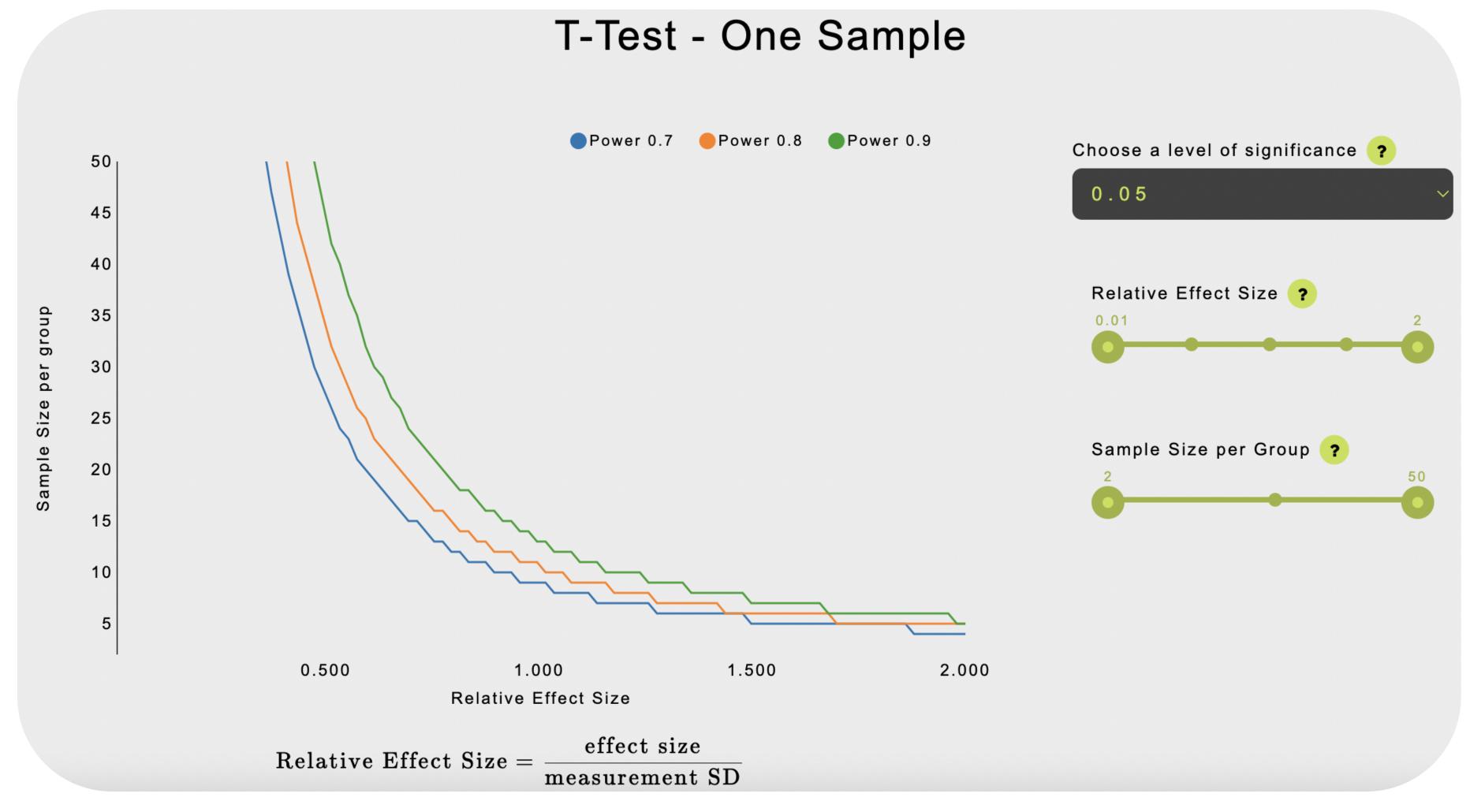
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What is MySampleSize?

MySampleSize is a website that aids pre-clinical researchers in experiment design and statistical calculations.

It provides users with the following tools:

- Step-by-step Experiment Design Guide
- Sample Size Calculator
- Power Size Calculator
- Power Plots
- **Experiment Simulations**
- Random Number Generator
- **Data Analysis**
- PDF Reports



Why MySampleSize?

- Valuable experience working on an existing project
- Project has real world application and necessity
 - 50% of the annual US preclinical research spend is wasted on non-reproducible experiments (\$28.2 Billion)
 - Project will continue to exist after team is done working on it
- Unique many similar projects do not offer as many features for free
 - More interactive for unexperienced users

Technologies Used

PDF Generation:

xhtml2pdf - Converts html into PDF, used in design guide

Webapp:

- Flask Python web app framework
- Amazon Web Services Hosts the web app on the internet

Calculations:

- Rpy2 Generates graphs
- Statsmodels Provides functions for stats calculations

Languages:

- Python
- JS
- AngularJS
- HTML
- · SCSS

