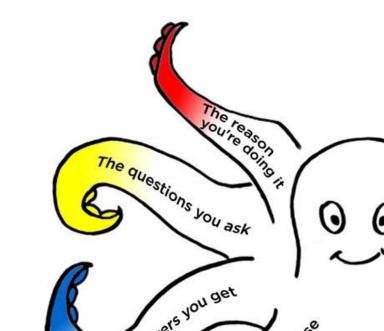
Surveys that work

An introduction to the Survey Octopus and Total Survey Error

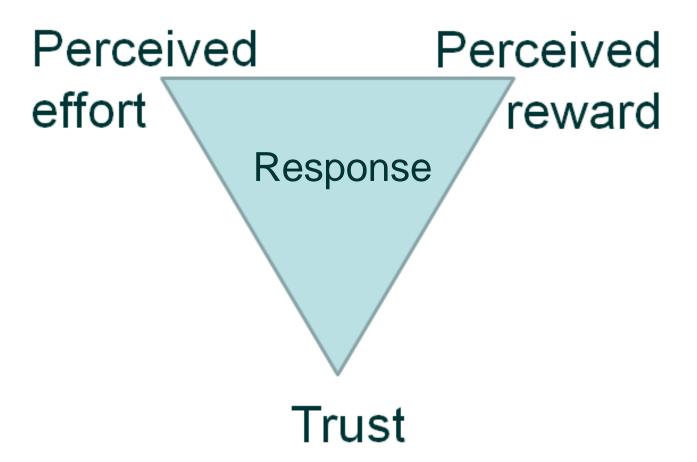
Caroline Jarrett
@cjforms
#surveysthatwork2022



What would you do for a dollar?

\$1 in the envelope beats \$10 guaranteed later





Would you answer this survey?



We want Luton to be a great place to do business. We need your help to make this happen.



Luton Borough Council, alongside BMG Research, are currently conducting a business survey about the needs of local businesses. This will help the Council to effectively shape and deliver services that support long term economic growth. We would be grateful if you could participate in this online survey and help us to help you. The survey will expire on 26th June 2011

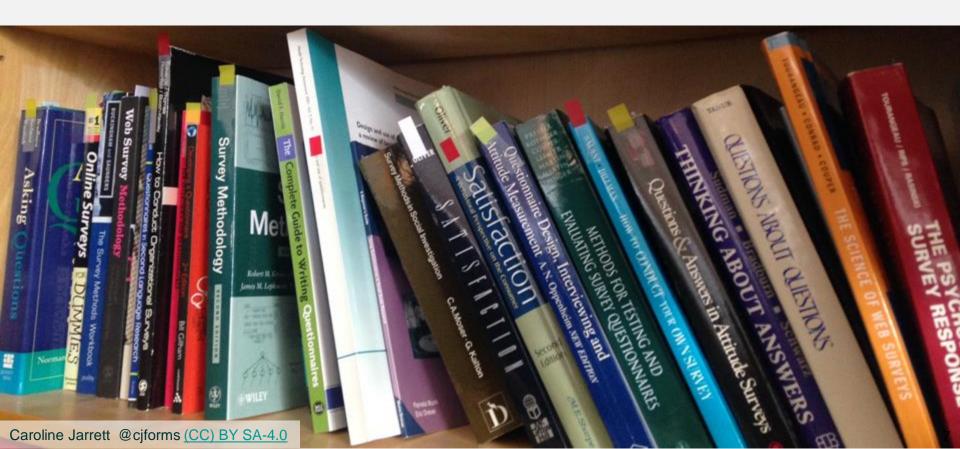
Click Here to Complete Survey

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I'm the forms specialist



Why do people answer questions?



I wrote a book

It seemed easier than continuing to answer lots of survey questions

SURVEYS THAT WORK A Practical Guide for Designing Better Surveys Rosenfeld **by CAROLINE JARRETT** Foreword by Steve Krug

https://rosenfeldmedia.com/books/surveys-that-work/

Let's think about these topics today

"Please have a look at this survey"

"Tell me whether this is a good question"

"Is this statistically significant?"

The survey is a systematic method for gathering information from (a sample of) entities for the purpose of constructing quantitative descriptors of the attributes of the larger population of which the entities are members.

Groves, Robert M.; Fowler, Floyd J.; Couper, Mick P.; Lepkowski, James M.; Singer, Eleanor & Tourangeau, Roger (2004). *Survey methodology*. Hoboken, NJ: John Wiley & Sons.

I change the definition a bit

systematic method becomes process gathering information becomes ask questions entities people become quantitative descriptors become numbers attributes of the larger population make decisions become

The survey is a process for getting answers to questions from (a sample of) people for the purpose of getting numbers that you can use to make decisions

Let's rearrange that somewhat

To make decisions

From people

The survey is a process for getting answers to questions

getting numbers

Start with why and who; end with the number

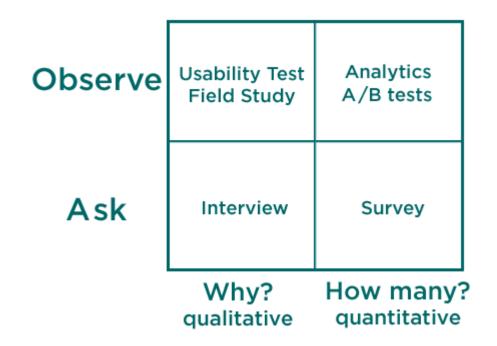
Why you want to ask

Who you want to ask

The survey is a process for getting answers to questions

The number

A survey is a quantitative method

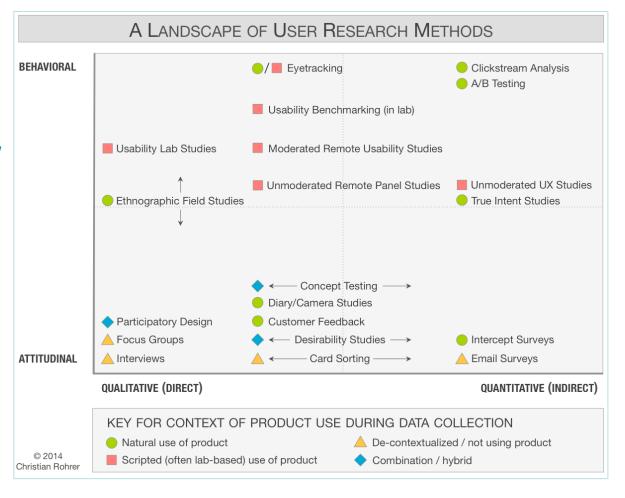


Key Point

A survey is a quantitative method

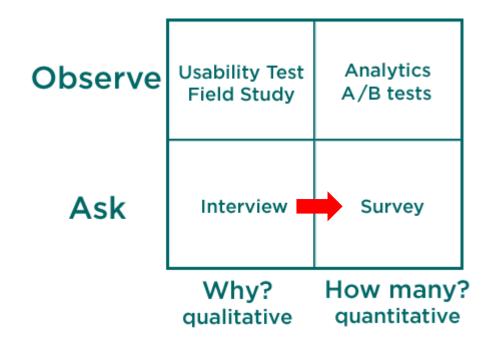
The result of a survey is a number

Christian Rohrer mapped many more methods



https://www.nngroup.com/articles/which-ux-research-methods/

Survey methodologists interview first



Establish your goals for the survey

What do you want to know?

Why do you want to know?

What decision will you make based on these answers?

What number do you need for the decision?

Key Point

The aim of a survey is to get a number that will help with a decision

Let's have a good look at that process

Why you want to ask

Who you want to ask

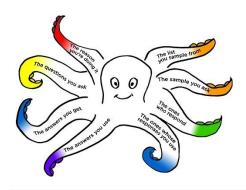
The survey is a process for getting answers to questions

The number

The Survey Octopus has things to think about

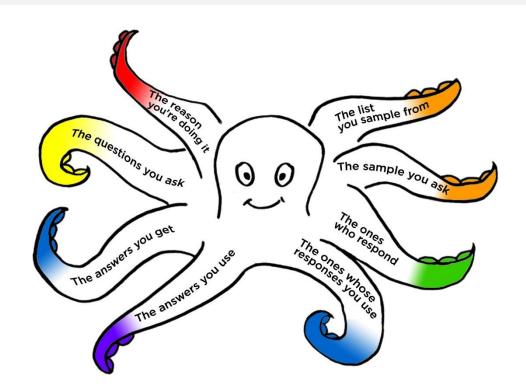
Why you want to ask

Who you want to ask

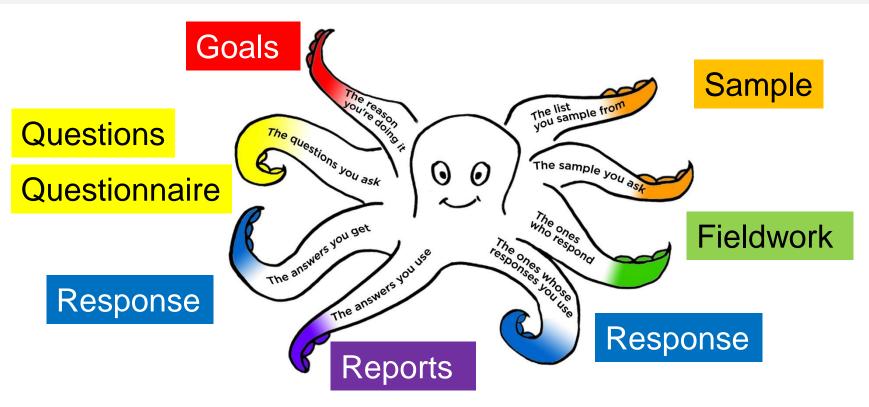


The number

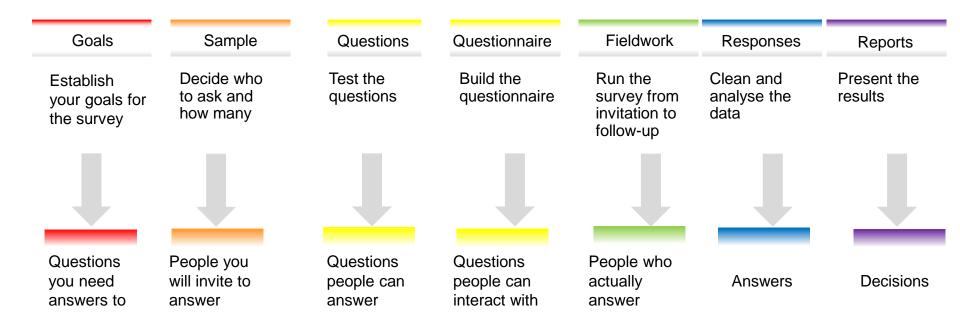
The topics are all somewhat connected



I made a process from the things to think about



Here are the 7 steps as a linear process



People ask me about surveys

"Please have a look at this survey"

"Tell me whether this is a good question"

"Is this statistically significant?"

Is this a good question?

Would you recommend us to a friend or family member?

"Recommend to friend/family" can be OK

	A shop selling clothes	
What do you want to know?	Whether they will recommend	
Why do you want to know?	To compare numbers over time	
What number do you need to make a decision?	Some good reasons (investigate and fix problems) Some bad ones (punish staff)	

"Recommend to friend/family" can be very weird

	A shop selling clothes	A hospital ward
What do you want to know?	Whether they will recommend	????
Why do you want to know?	To compare numbers over time	Because someone said they had to ask
What number do you need to make a decision?	Some good reasons (investigate and fix problems) Some bad ones (punish staff)	???? What decision?

Questions can go wrong in other ways



And how frequently do you take part in the following craft(s)? Plea select one answer per row.





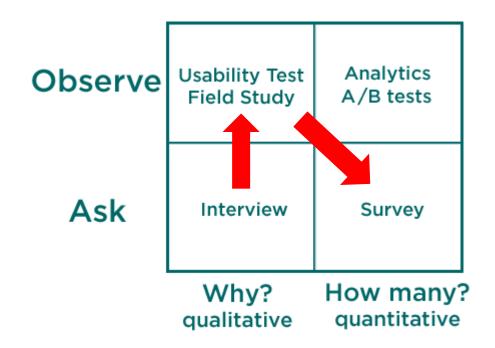








Make sure that you test your questionnaire



Key Point

To find out whether a question is a good one, test it with people who will answer it

People ask me about surveys

"Please have a look at this survey"

"Tell me whether this is a good question"

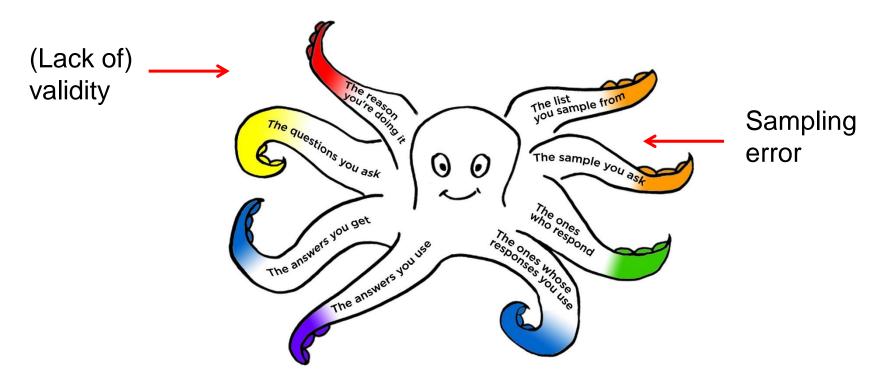
"Is it statistically significant?"

What type of significance do you need?

• A result that is *statistically significant* is one that is mathematically unlikely to be the result of chance

 A result that is significant in practice is one that is meaningful in the real world

If you ask the wrong questions, you'll fail at validity



Key Point

Asking one person the right question

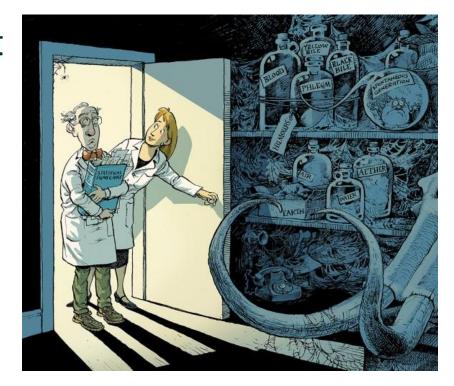
gets better results

than asking 10,000 people the wrong question

Many statisticians aren't keen, either

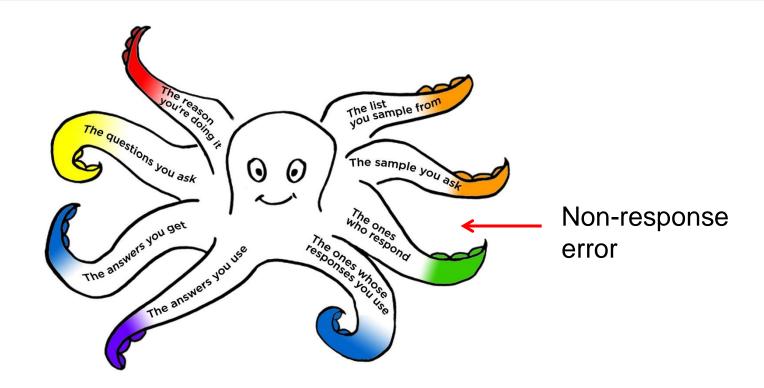
Scientists rise up against statistical significance

https://www.nature.com/articles/d41586-019-00857-9



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Let's look at another crucial error



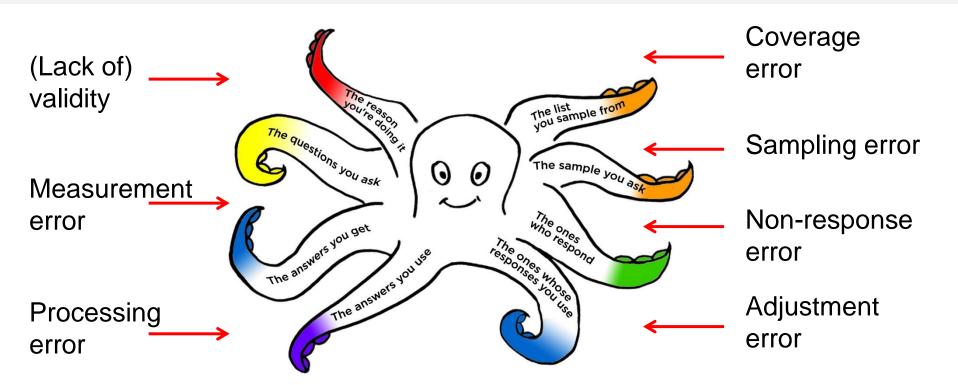
Non-response error happens when the people who do not respond are different to the people who do respond in a way that affects your decision

Jane Matthews told me a story

- 20 people attend a workshop; they all seem to enjoy it
- Only get 3 or 4 back from a web survey
 "If we rely on those responses,
 we might be at risk of making bad decisions"
- Now changing to phoning half the people



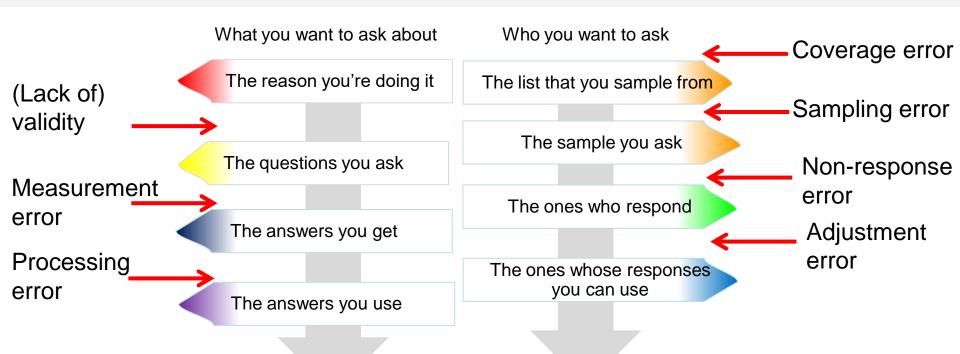
There are errors all around the Survey Octopus



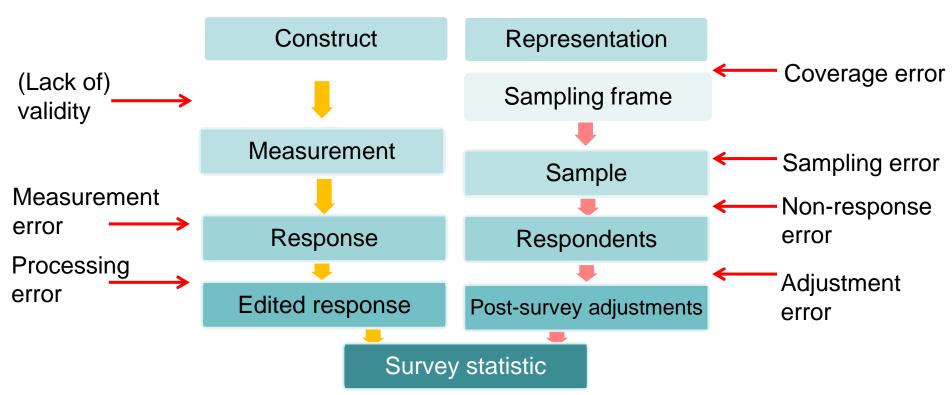
Key Point

Significance in practice comes from making good decisions throughout the survey

The aim is to get the best number you can, within the resources you have



This version uses terms from survey methodology



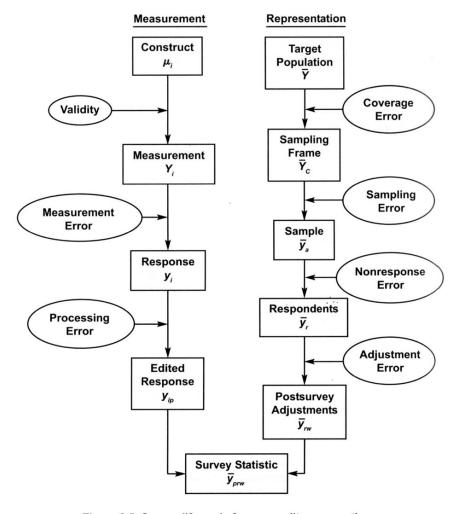


Figure 2.5 Survey life cycle from a quality perspective.

Total Survey Error diagram as presented in Groves, R. M., F. J. Fowler, M. P. Couper, J. M. Lepkowski, E. Singer and R. Tourangeau (2009). Survey methodology. Hoboken, N.J., Wiley.

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