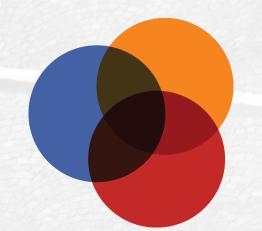


14 00 UNE PEINTURE PARLÉE 15 00 BEAUBOURG LA-REINE: LES KELL 19 00 BEAUBOURG-LA-REINE: JULIE NIC 20 00 TEATRINO PALERMO: INAUGURATI 20 30 GRANDE SALLE: ELMGREEN & DRA EET SIR ALICE



#### Survey Says! Get Better Data with UX

Lauren Isaacson, MBA

Market & UX Research Consultant

**Curio Research** 

TEATRINO PALERMO, CINEMA 2: BORIS CHARMA; Z BEAUBOURG LA-REINE: GILLES GASTON-DREYFUS, SOPHIE LENOIR ET STÉPHANE ROGER 18 00 PARFUNIS POURPRES DU SOLEIL DES PÔLES

UNE PEINTURE PARLÉE 16 00 BEAUBOURG-LA-REINE: GILL

SOPHIE LENOIR ET STÉPHAN CONFÉRENCE-PERFORMANO GUILLAUME DÉSANGES

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19 00 CONFÉRENCE-PERFO

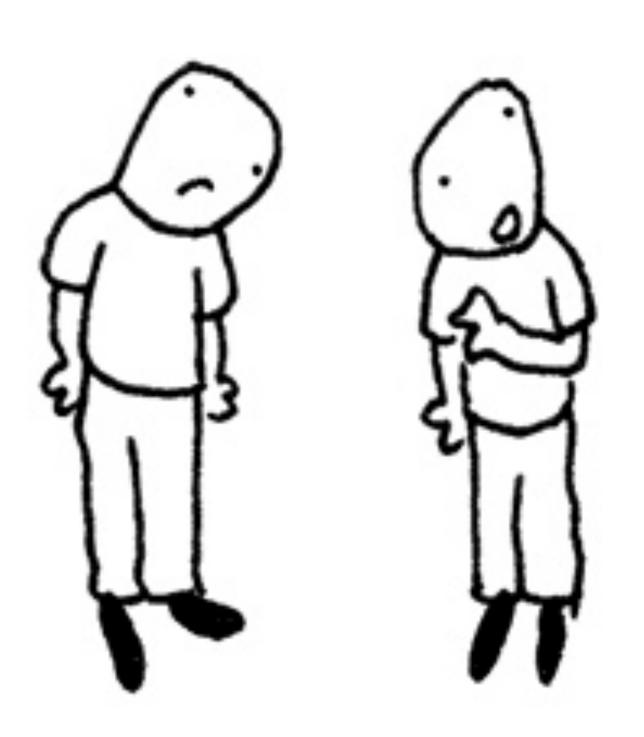
BEAUBOURG-LA-RE GILLES GASTON-DRE

16 00

14 00 UNE PRINTURE PARI

# Thank you for being here!

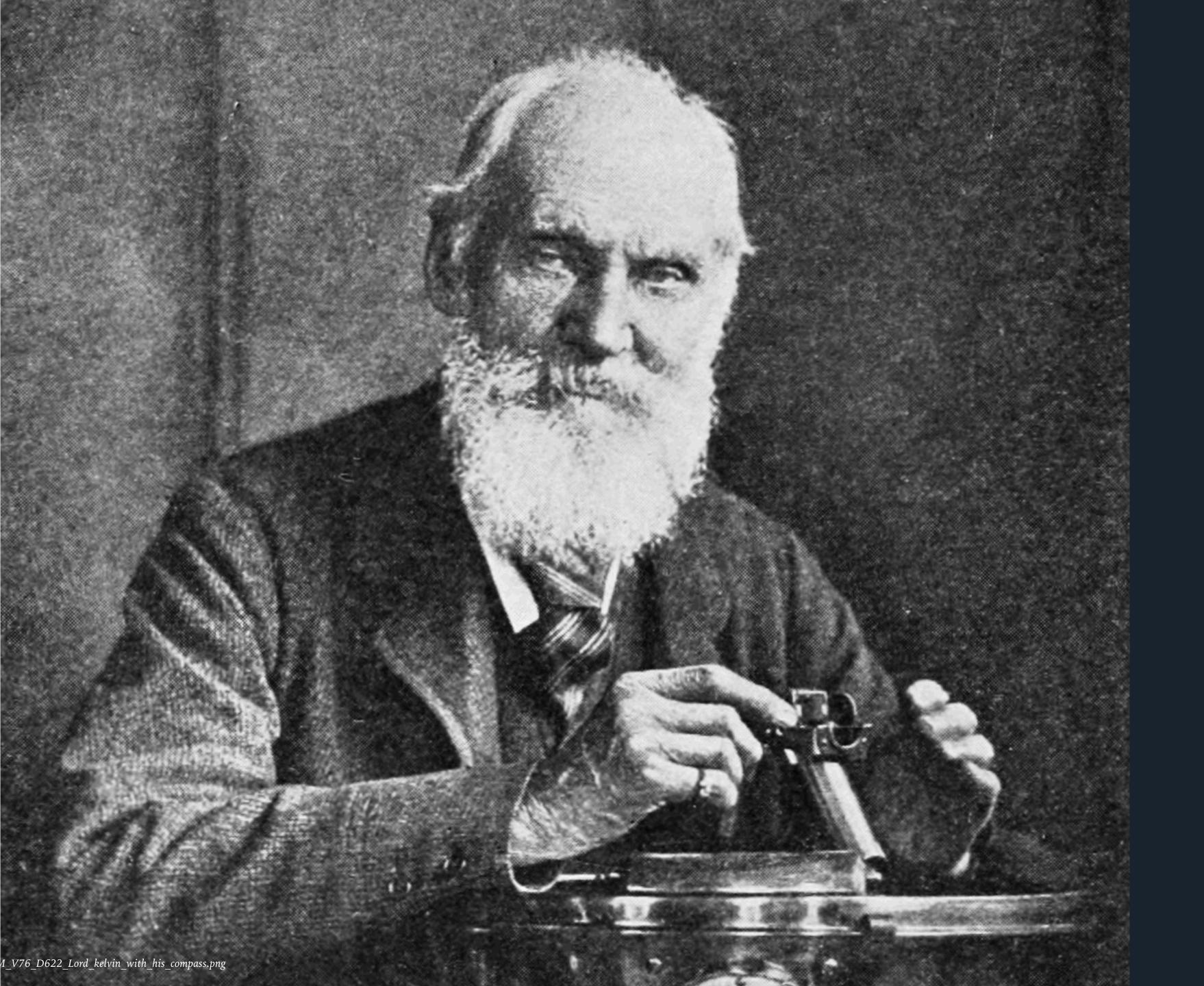




yourself a "polymath" if you only have two talents them is being nervovs









If you cannot measure it, you cannot improve it.

"

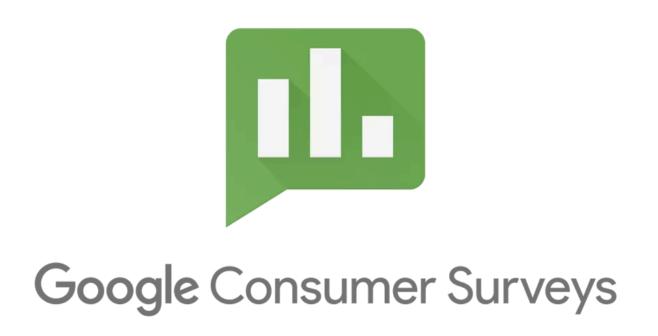
LORD KELVIN





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### surveygizmo

Typeform













Checkbox SurveyMonkey®



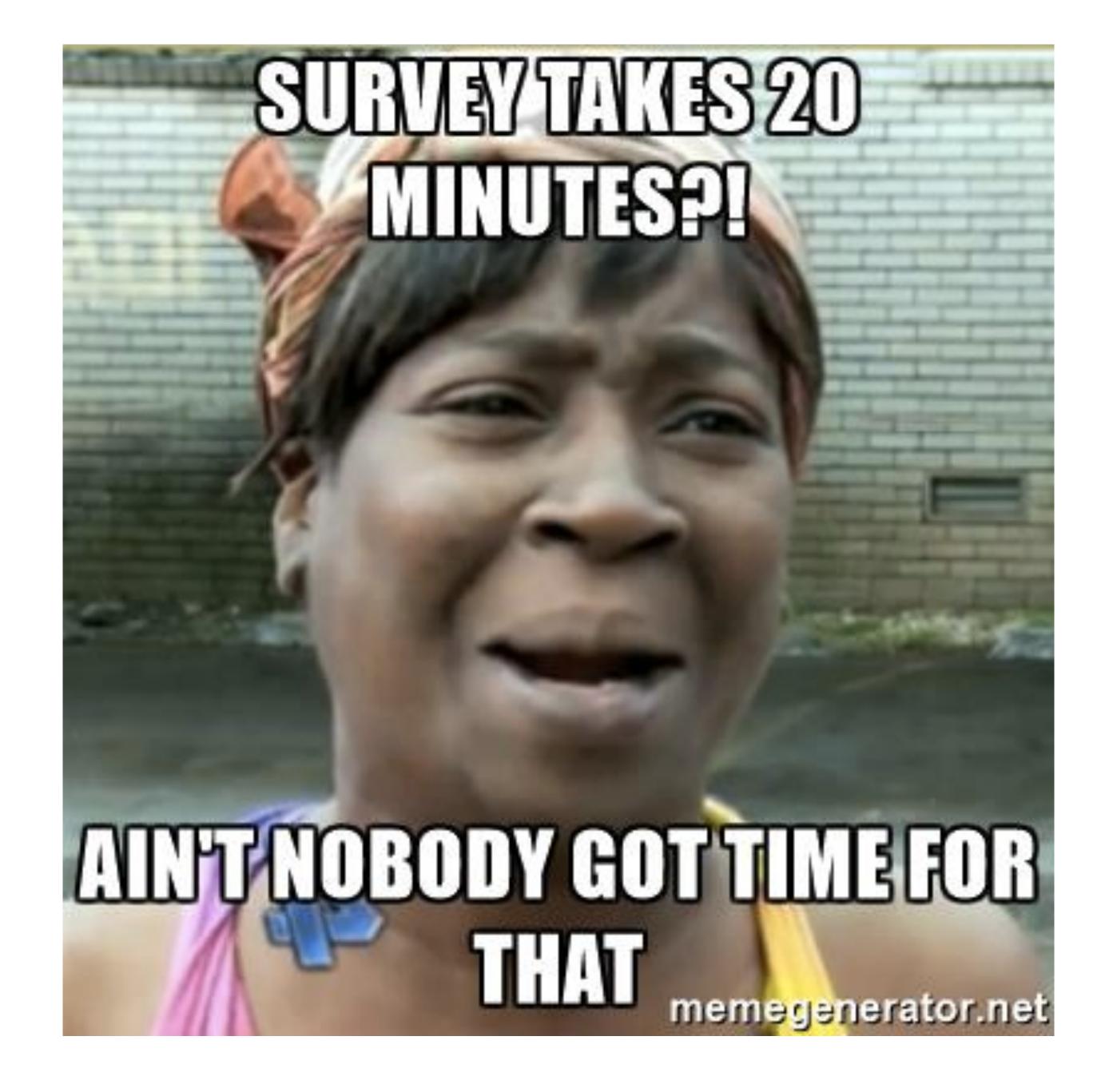




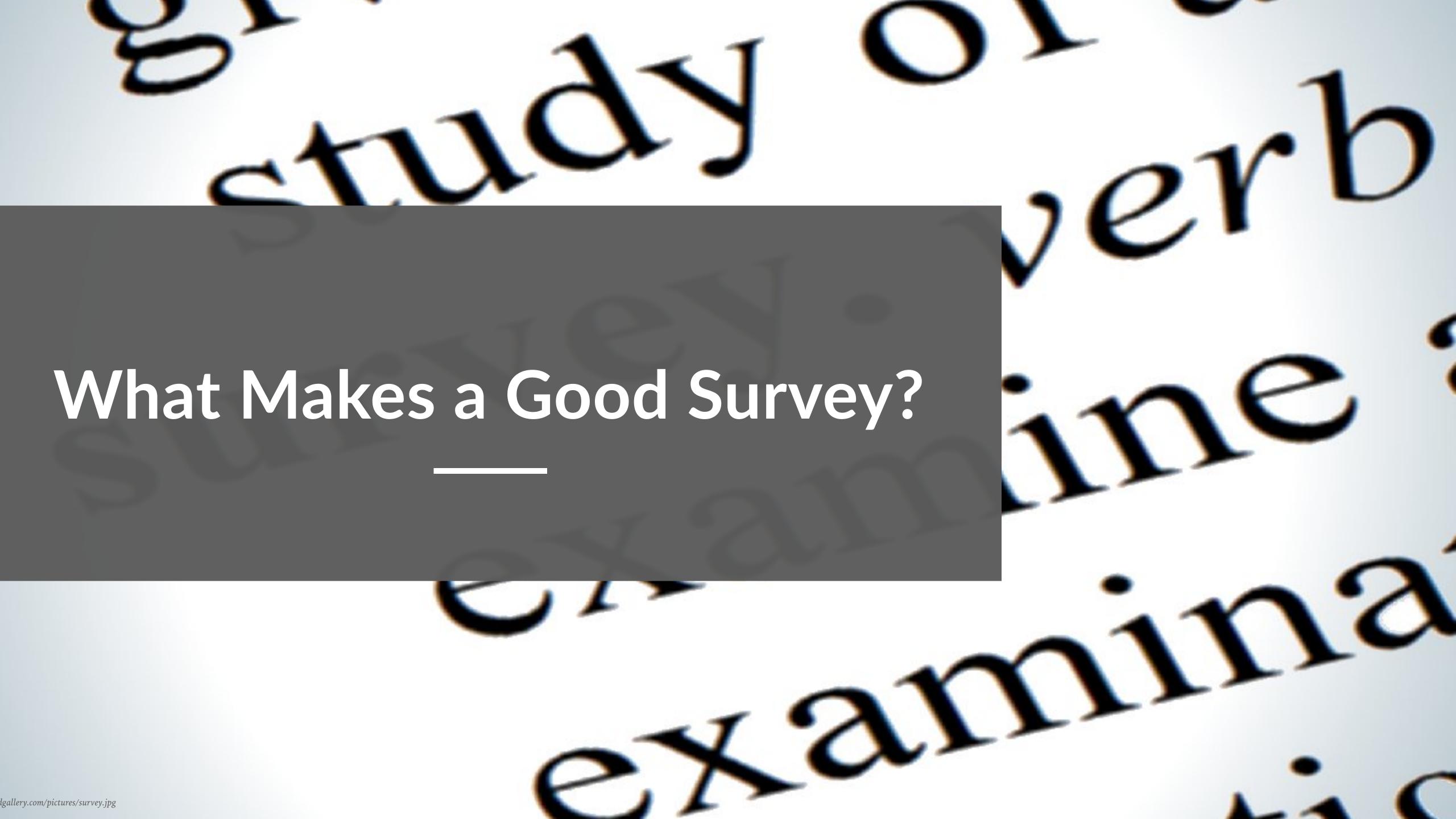




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PRESSER TALIATO 5 and 6 per DRESS





#### The shorter the better





#### HAVE A SINGULAR FOCUS

Keep the number of research objectives to a minimum.



#### **USE QUANTITATIVE QUESTIONS**

Open ended text response questions make the survey longer and more taxing on the respondent.



#### NO LONGER THAN 10 MINUTES TO TAKE

Fewer Questions = More Responses + More Completes



### Mobile First

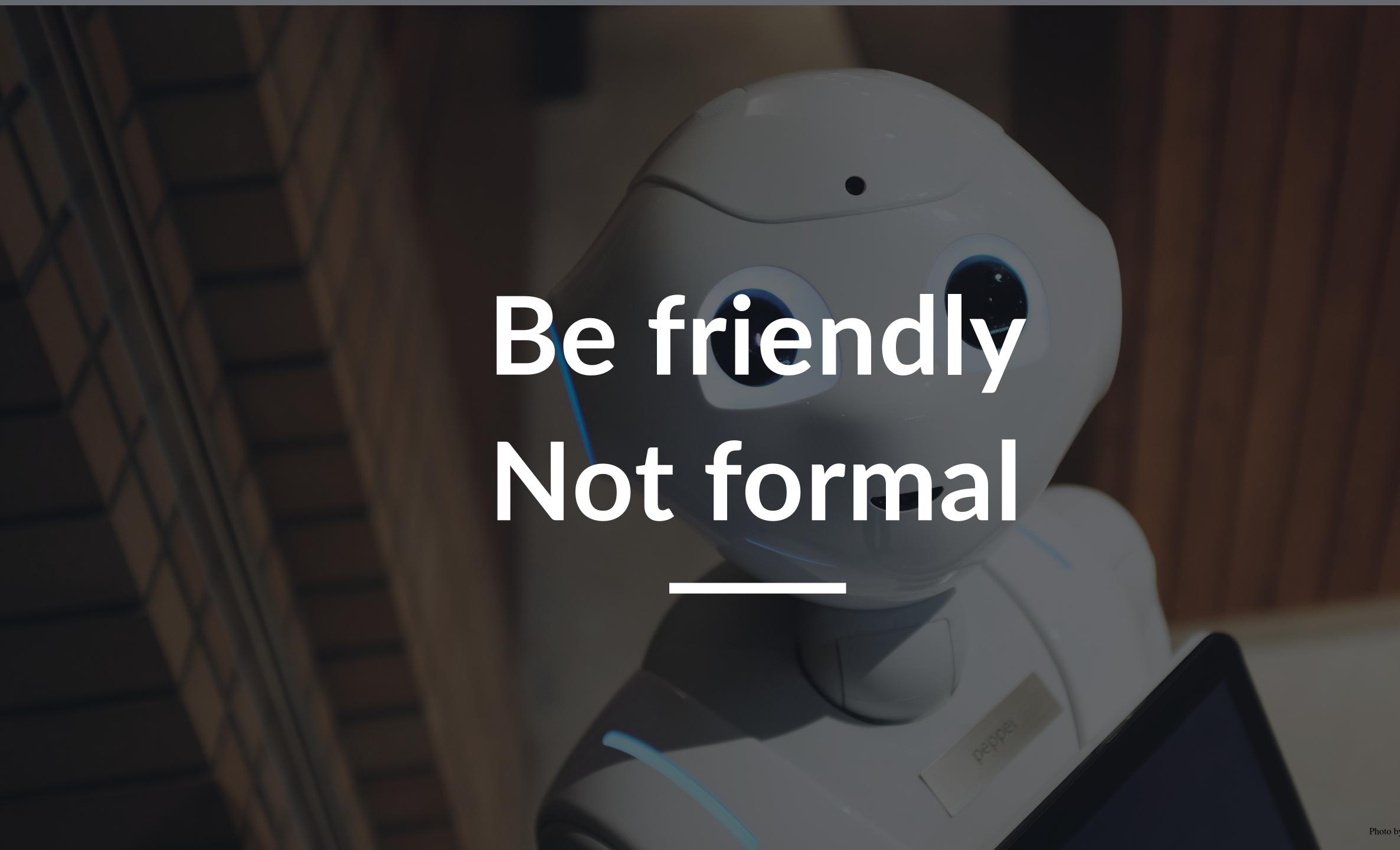
44% of SurveyMonkey surveys were taken on a mobile device last year\*

# Do you really need to ask that? Really? Are you sure?

If you knew this information, what would you do?

# Make all questions tweet\* length questions

Simply stated. Direct. Clear. Jargon free.



# Help respondents give you correct answers



## Help Respondents Be Accurate

- Make answer options exhaustive
  - Think about and do some research to give respondents every possible option
- Consider the ranges you offer carefully
  - Respondents will interpret the ranges you give as typical of the population
  - Below average, average, above average
- Don't expect respondents to remember anything

oresearch.netive specifics

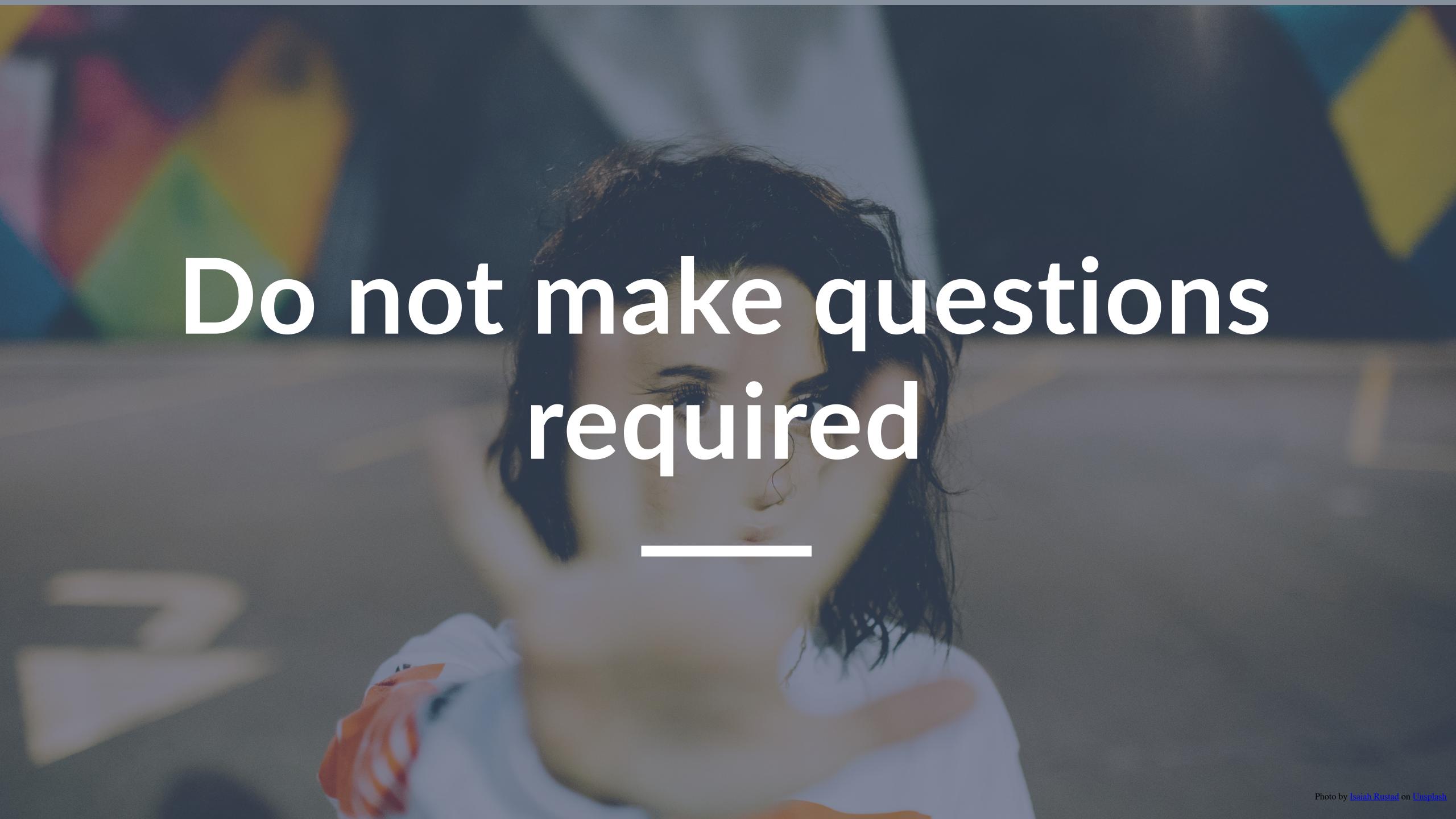




# Help Respondents Be Accurate

- Offer an opt-out
  - Other, None, Not Applicable
- Let people enter in their own answer
  - Other \_\_\_\_
    - Only use this if you actually plan to use the data

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Do you have a non-human companion?

- O Dog
- O Cat

- O Dog
- O Cat

- O Dog
- O Cat
- Amphibian
- Reptile
- Rodent
- O Fish
- O Bird
- O Other
- O I don't have a pet

- Dog
- Cat
- Amphibian
- Reptile
- Rodent
- Fish
- Bird
- Other
- I don't have a pet

#### 31

#### Basic Survey Question

What kind of pet do you have?

- Dog
- Cat
- Amphibian
- Reptile
- Rodent
- ☐ Fish
- Bird
- Other
- I don't have a pet

RANDOMIZE

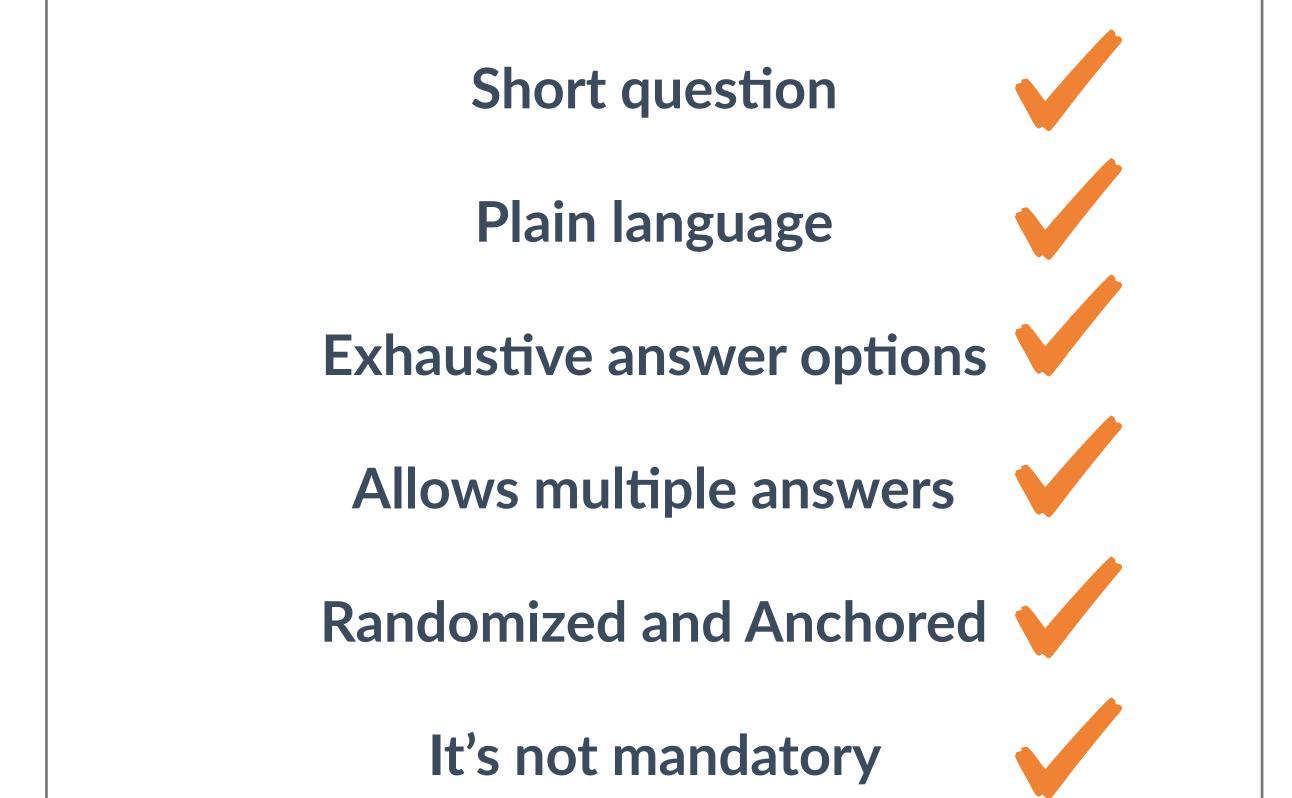
ANCHOR

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#### 32

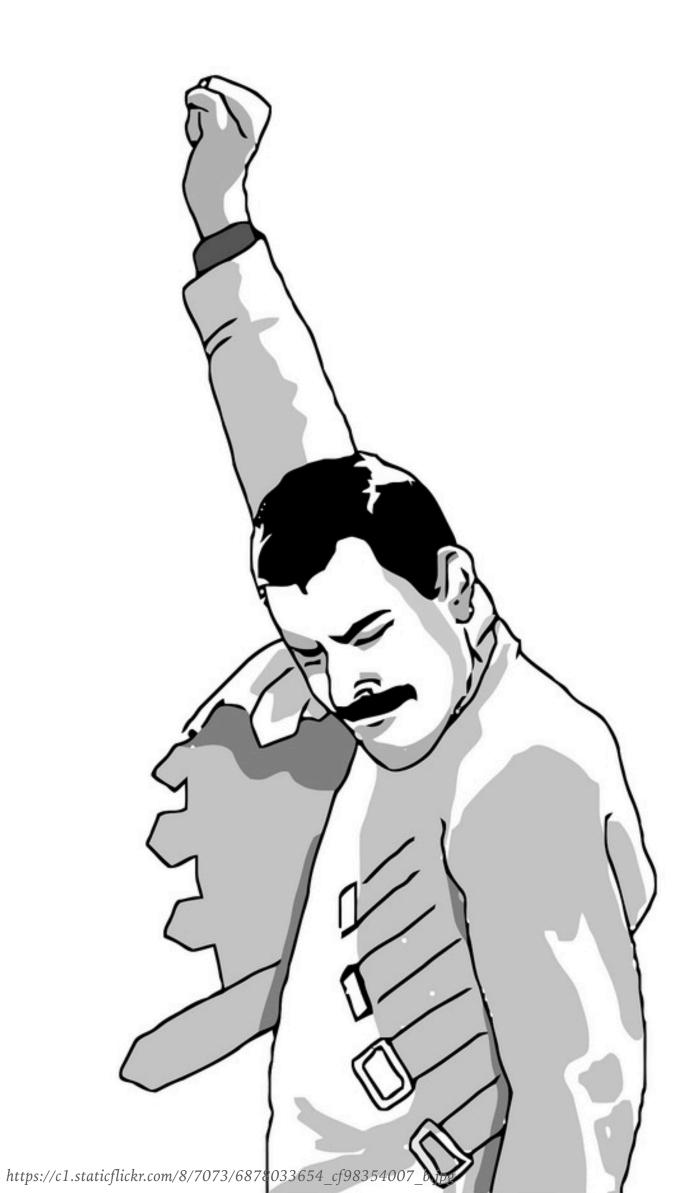
#### Basic Survey Question

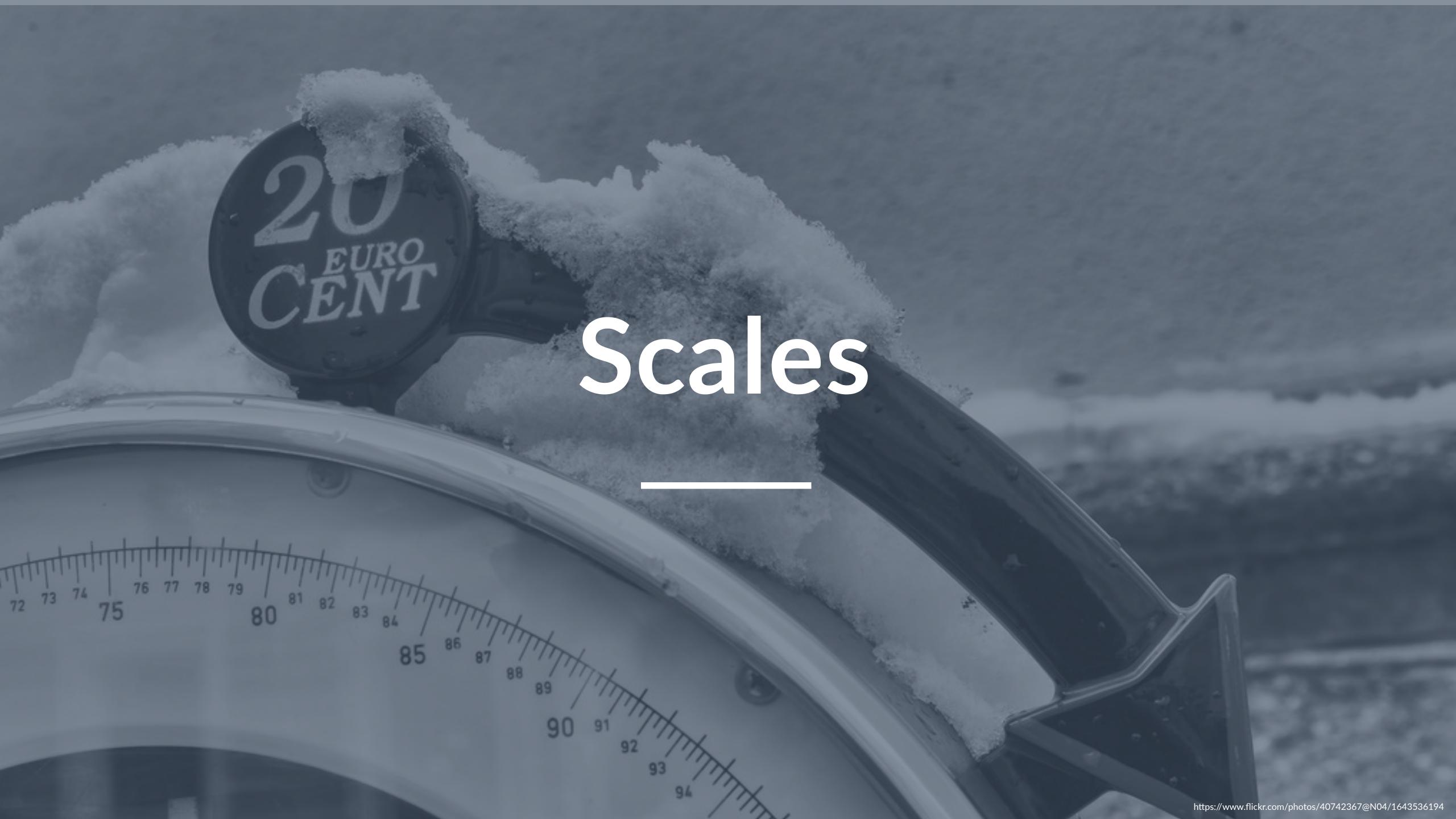
- Dog
- Cat
- Amphibian
- Reptile
- Rodent
- ☐ Fish
- ☐ Bird
- Other
- I don't have a pet



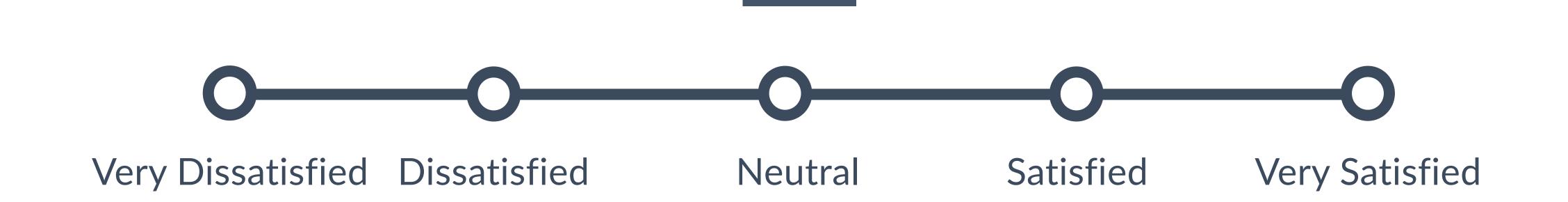
Do you have a non-human companion?

- Dog
- Cat
- Amphibian
- Reptile
- Rodent
- Fish
- Bird
- Other
- I don't have a pet

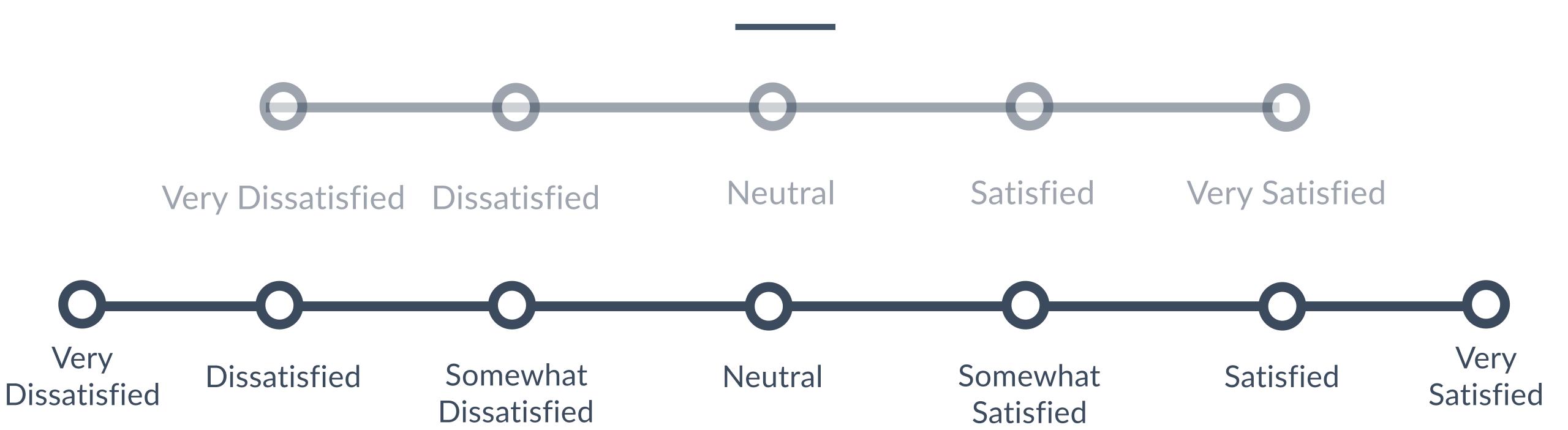




#### Scales



#### Scales



#### Scales







## Scales

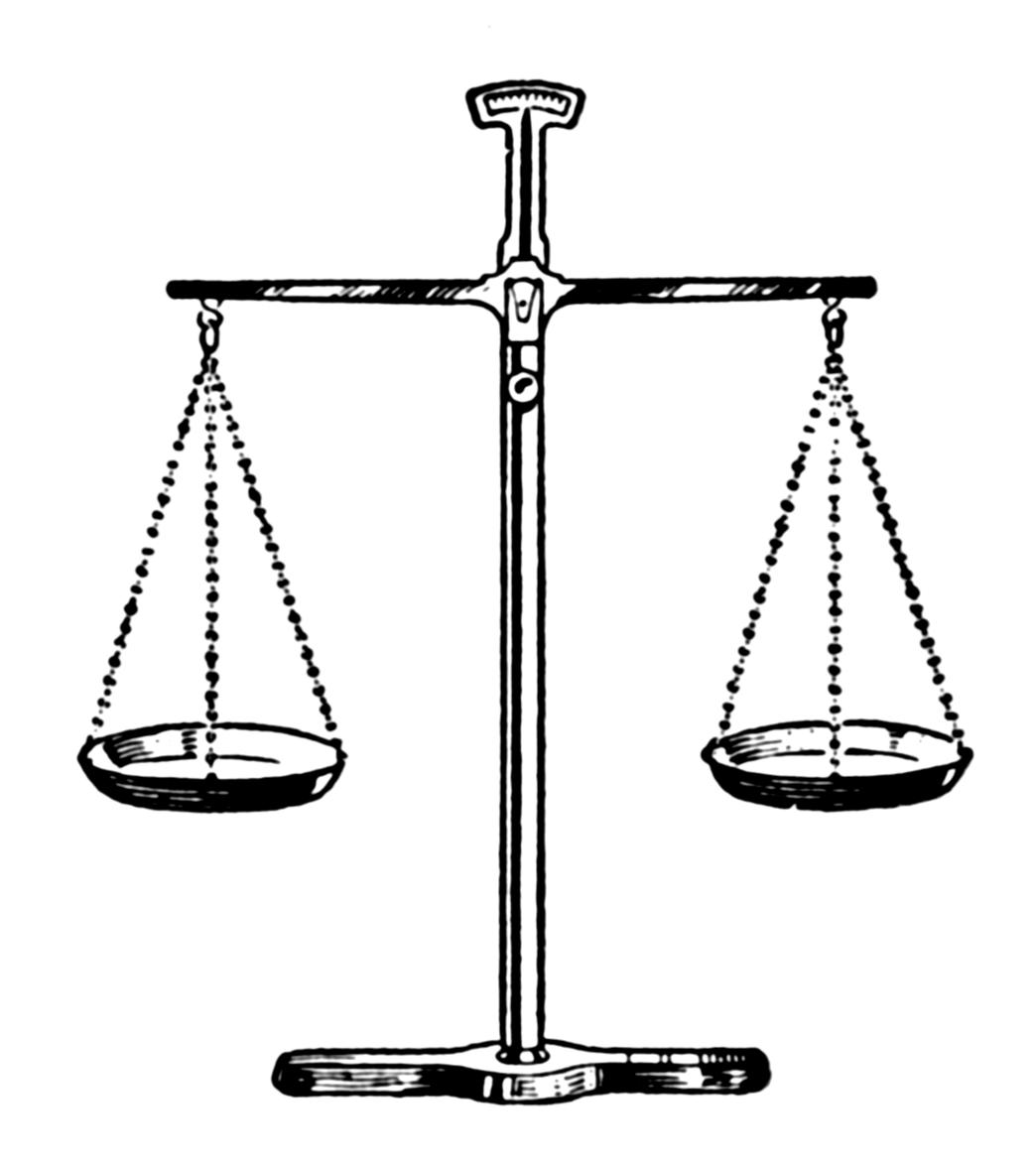


# Neutral is a valid answer



#### Good scales are:

- Likert/Odd numbered
- Balanced
  - The same number of positive and negative options with a neutral option in the middle
- Vertical
  - Mobile first
- Labeled







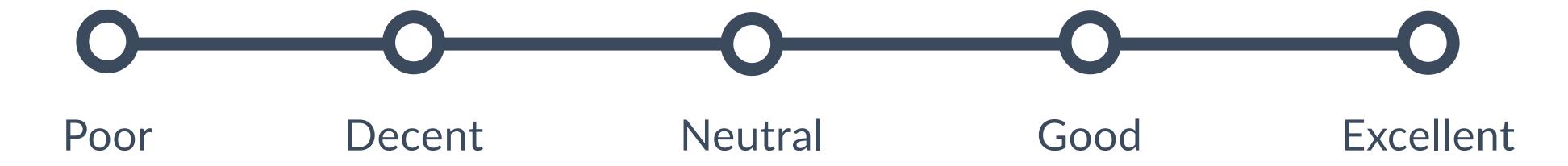
Please rate your level of satisfaction with this conference:

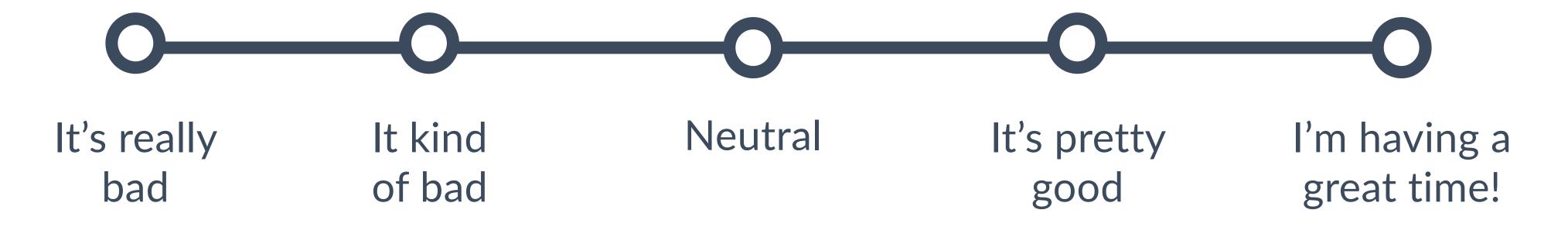










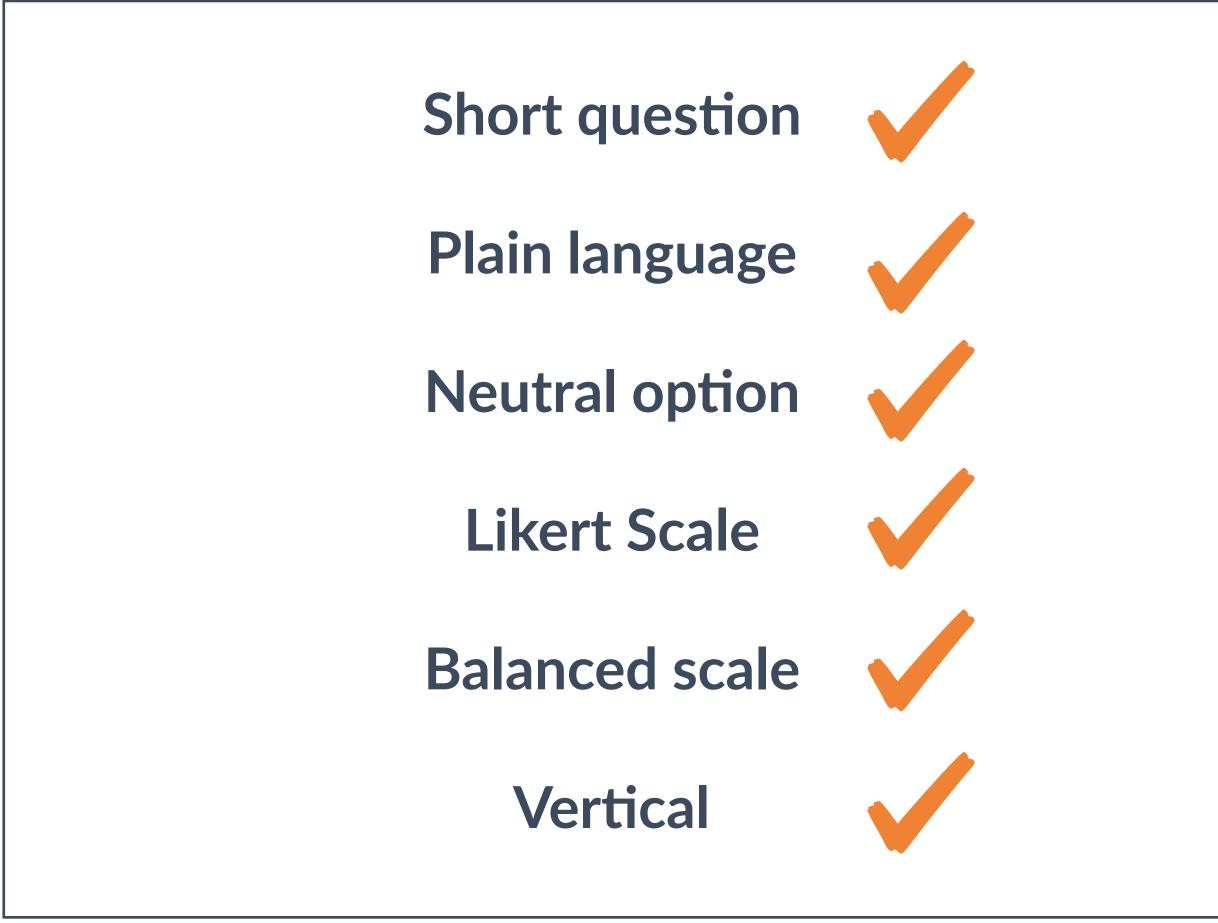


- O I'm having a great time!
- O It's pretty good
- Neutral
- O It kind of bad
- O It's really bad

# 48

# Scale Question

- O I'm having a great time!
- O It's pretty good
- Neutral
- O It kind of bad
- O It's really bad



### 49

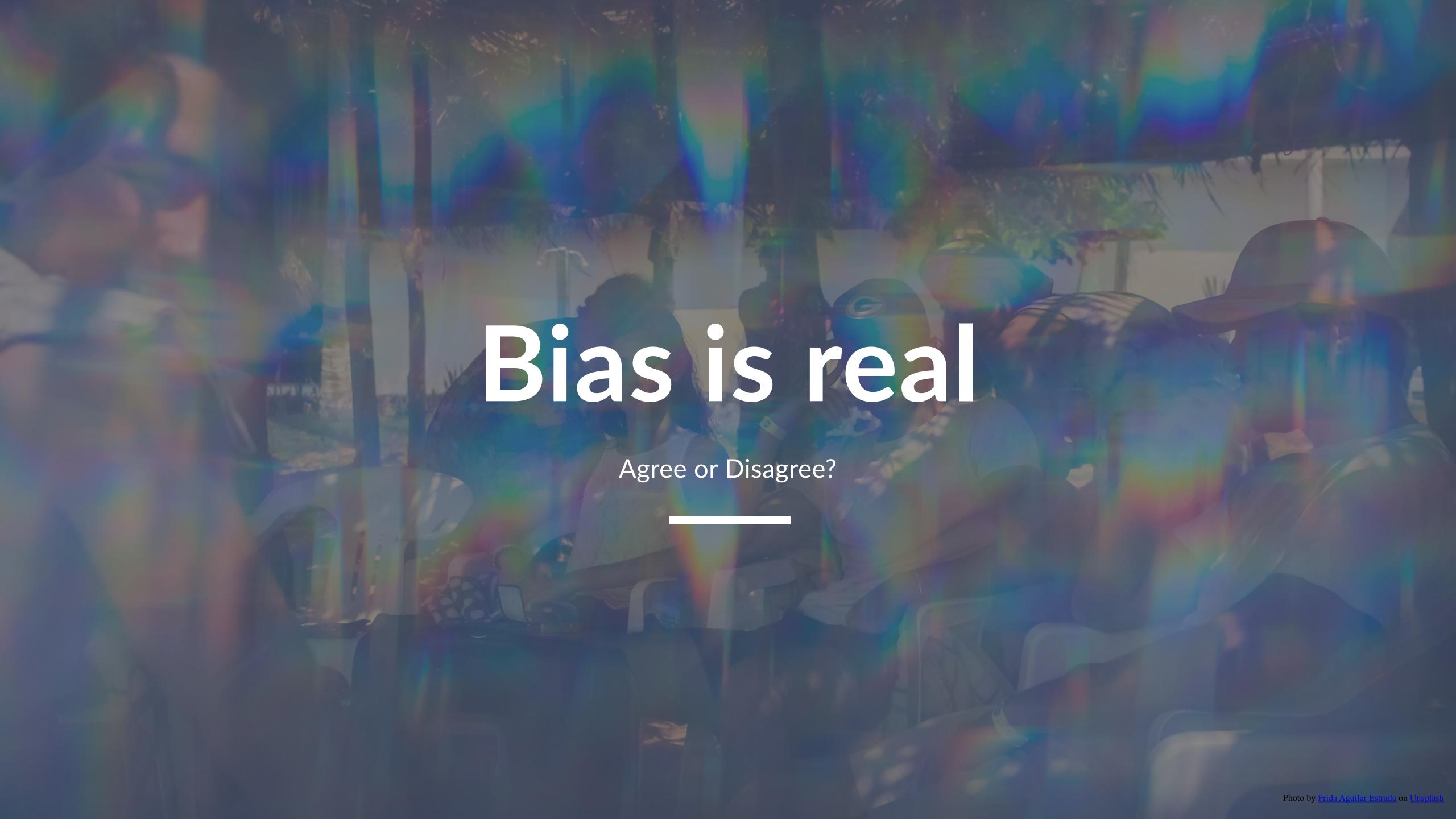
# Scale Question

- O I'm having a great time!
- O It's pretty good
- Neutral
- O It kind of bad
- O It's really bad



# Minnize grallsage Relying on grids is cheating

	Strongly Agree									Strongly Disagree 1	N/A
	10	9	8	7	6	5	4	3	2		
The information about how to use Mobile Banking is helpful	0	0	0	0	0	0	0	0	0	0	0
Mobile Banking is available when I need it	0	0	0	0	0	0	0	0	0	0	0
The Mobile Banking pages load quickly	0	0	0	0	0	0	0	0	0	0	0
Mobile Banking makes managing my finances easier	0	0	0	0	0	0	0	0	0	0	0
I feel confident about finding my way around in Mobile Banking	0	0	0	0	0	0	0	0	0	0	0
My account information is updated quickly in Mobile Banking	0	0	0	0	0	0	0	0	0	0	0
Mobile Banking is secure	0	0	0	0	0	0	0	0	0	0	0
The amount of account history available in Mobile Banking is sufficient	0	0	0	0	0	0	0	0	0	0	0
I am able to easily transfer funds using Mobile Banking	0	0	0	0	0	0	0	0	0	0	0
The response time of Mobile Banking on my mobile device meets my expectations	0	0	0	0	0	0	0	0	0	0	0
My account balances in Mobile Banking are accurate	0	0	0	0	0	0	0	0	0	0	0
It is easy to complete tasks using Mobile Banking	0	0	0	0	0	0	0	0	0	0	0
I was able to find the information I was looking for using Mobile Banking	0	0	0	0	0	0	0	0	0	0	0
My account information in Mobile Banking is easy to understand	0	0	0	0	0	0	0	0	0	0	0



# Respondent Biases

Know your enemies

#### **Acquiescence Bias**

We just want to get along with everyone by being agreeable. Even people we've never met.

#### **AVOID**

Questions involving answers such as:

Yes/No

Agree/Disagree

True/False

**Desireability Bias** 

We like appearing better than we actually are.

#### **AVOID**

Asking people to recall their own consumption habits. Find actual usage or purchase data instead.





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# 54

#### Researcher Biases

Know your enemies

#### Sampling Bias

The sample for the survey doesn't reflect the population being researched.

#### USE

Demographic Quotas

Random Elements:

Random number generators

Dice

#### Research Bias

The point of view of the researcher interferes with the objectivity of the research.

#### USE

Word questions to be as neutral as possible

Obfuscate your purpose Red Herring answers



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#### Do you use Gmail?

- O Yes
- O No



- **O** Gmail
- O Hotmail
- O Yahoo! Mail
- O Outlook
- O I have my own email server
- O Other \_\_\_\_\_
- O I don't use email

- ☐ Gmail
- Hotmail
- Yahoo! Mail
- Outlook
- ☐ I have my own email server
- Other \_\_\_\_\_
- I don't use email

### 59

# Neutral Question

- ☐ Gmail
- Hotmail
- Yahoo! Mail
- Outlook
- FantasticMail
- I have my own email server
- Other\_\_\_\_
- I don't use email

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Which of these email services do you use?

- ☐ Gmail
- Hotmail
- Yahoo! Mail
- Outlook
- FantasticMail
- I have my own email server:
- Other\_\_\_\_
- I don't use email

RANDOMIZE

ANCHOR

Which of these email services do you use?

- ☐ Yahoo! Mail
- FantasticMail
- ☐ Gmail
- Outlook
- Hotmail
- ☐ I have my own email server
- Other\_\_\_\_
- I don't use email

Doesn't lead



Plain language



Data quality red herring



Allows multiple answers



Randomized and Anchored



It's not mandatory



#### 62

# Neutral Question

- Outlook
- I have my own email server
- ☐ Gmail
- Yahoo! Mail
- Hotmail
- FantasticMail
- Other\_\_\_\_
- I don't use email





# Incentives

Not necessarily difficult or expensive



#### **METHODS**

Online gift cards, account credit, random prize drawing, charitable donations... Get creative!



#### BETTER RESPONSE RATES

Mitigates non-response bias for better results.



#### **DEMONSTRATES RESPECT**

Shows you understand the value of respondents' time.



# Open with gratitude Close with gratitude

And a final open end



#### **BE GRACIOUS**

Thank respondents for their participation at the opening and the closing.

#### **BE TRANSPARENT**

Tell them how the data will be used. Improve a product? Help a non-profit? Inform sponsors?

#### **BE GENEROUS**

Offer to share the results of the study with them when it's over.

#### **BE OPEN**

Present a final open end so they can share something you might have missed.



Testing Your Surveys

DISORIENTED

BEWILDERED



# Usability Testing

Simple goals, simple process



#### SIMILAR TO UX USABILITY TESTING

Conduct a cognitive interview with a member of the target population.

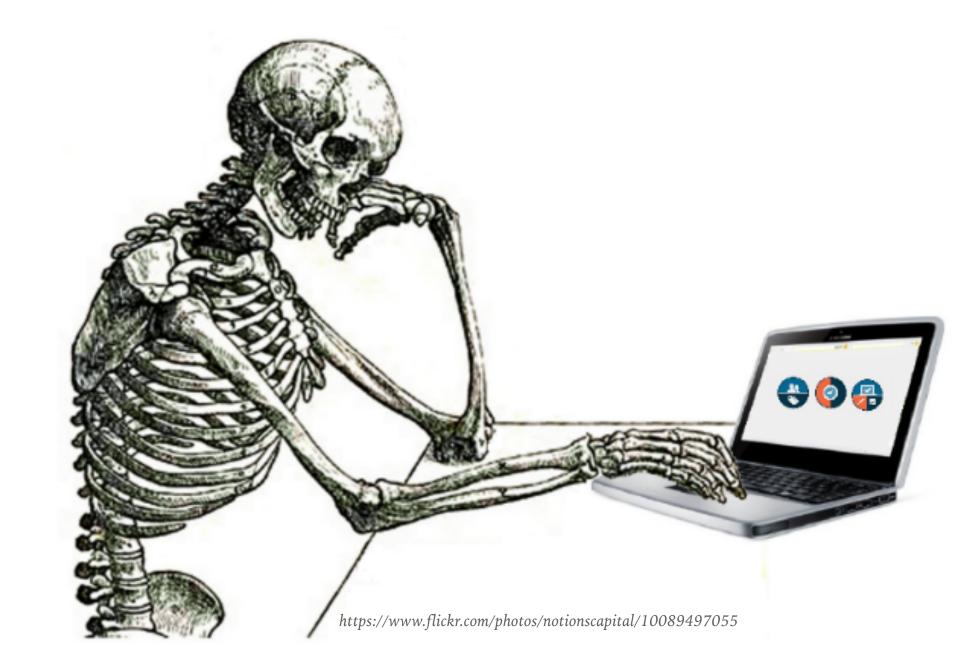
Someone unrelated to the project will do in a pinch.



#### **COGNITIVE INTERVIEW**

Have test respondent walk you through their thought process.

- Did they understand the questions?
- Did they offer other suggestions?
- How long sis it take them to complete the survey?





# Pilot Study A dress rehearsal for your survey



#### **DEFINITION**

A pilot study is like a dress rehearsal for your survey.



#### **TEST DEPLOYMENT**

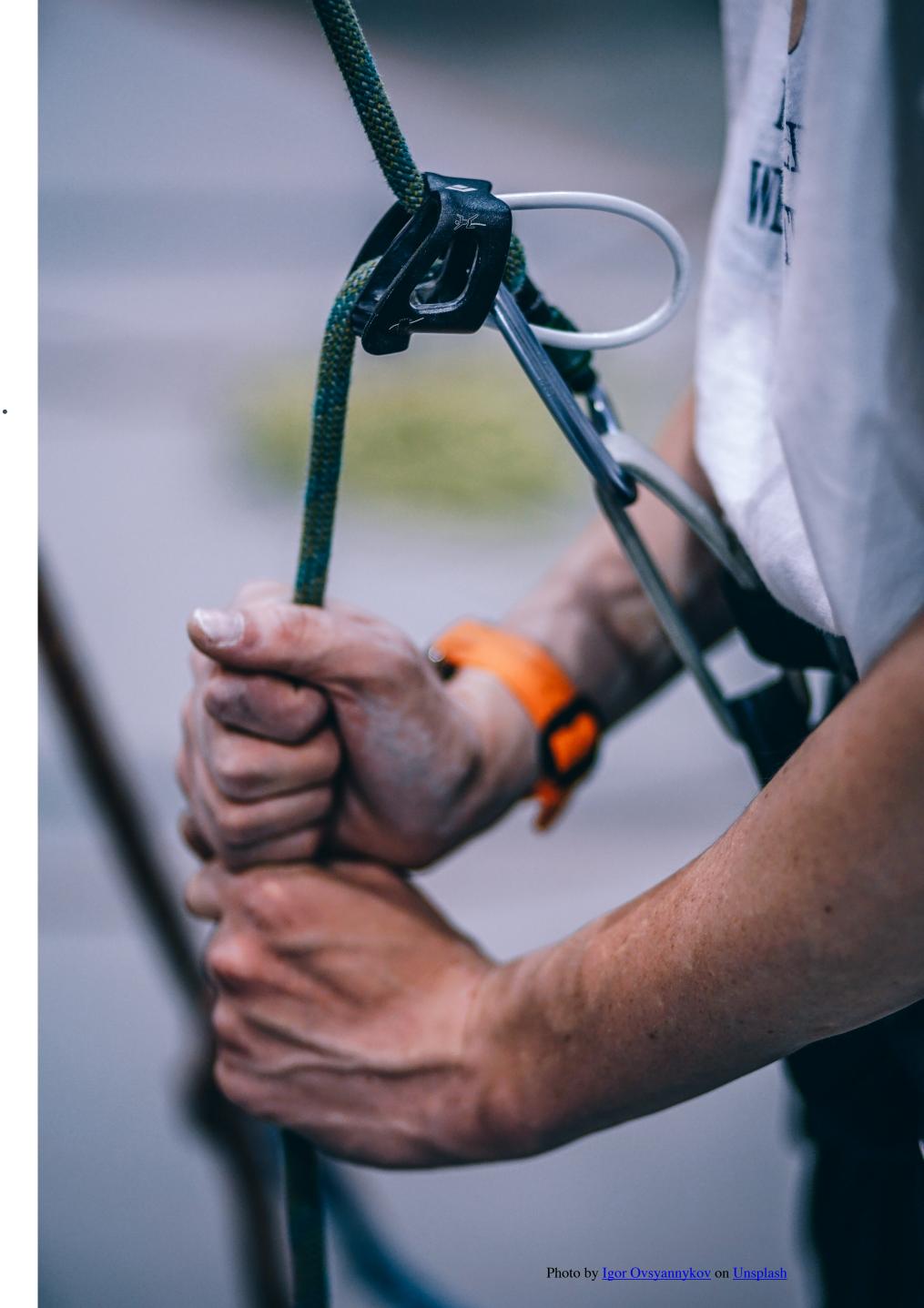
- Recruiting process
- Invitation
- Response rate

- Completion rate
- Incentive fulfillment



#### **TEST RESULTS**

- Odd answer patterns
- To many 'other' answers
- Frequently skipped questions
- Time to complete





### Respondent Sources

Where are they coming from?



#### **INTERNAL**

Avoid giving your customers survey fatigue. Track how often they get surveys.



#### **EXTERNAL**

Ask the provider about their quality controls:

- CAPTCHAs?
- Proxy server detection?
- Geo-IP validation?
- Other authentication measures?



# How many respondents do you need?

CI For	Sample Statistic	Margin of Error	Use When
Population mean (µ)	$\bar{x}$	$\pm z^* \frac{\sigma}{\sqrt{n}}$	$X$ is normal, or $n \ge 30$ ; $\sigma$ known
Population mean (μ)	$\bar{x}$	$\pm t_{n-1}^* \frac{s}{\sqrt{n}}$	$n$ < 30, and/or $\sigma$ unknown
Population proportion (p)	$\hat{p}$	$\pm z^* \sqrt{rac{\widehat{p}(1-\widehat{p})}{n}}$	$n\hat{p}, n(1-\hat{p}) \ge 10$
Difference of two population means $(\mu_1 - \mu_2)$	$\overline{x}_1 - \overline{x}_2$	$\pm z^* \sqrt{\frac{\sigma_1^2}{n_1} + \frac{\sigma_2^2}{n_2}}$	Both normal distributions or $n_1, n_2 \ge 30;$ $\sigma_1, \sigma_2$ known
Difference of two population means $\mu_1 - \mu_2$	$\overline{x}_1 - \overline{x}_2$	$\pm t_{n_1+n_2-2}^* \sqrt{\frac{(n_1-1)s_1^2+(n_2-1)s_2^2}{n_1+n_2-2}}$	$n_1, n_2 < 30;$ and/or $\sigma_1 =$ $\sigma_2$ unknown
Difference of two proportions $(p_1 - p_2)$	$\hat{m{p}}_1 - \hat{m{p}}_2$	$\pm z^* \sqrt{\frac{\hat{p}_1(1-\hat{p}_1)}{n_1} + \frac{\hat{p}_2(1-\hat{p}_2)}{n_2}}$	$n\hat{p}, n(1-\hat{p}) \ge 10$ for each group

# Sample Size Variable Definitions

75

Don't be scared, it's not that bad



### POPULATION



# CONFIDENCE LEVEL (CL)



The total number of people in the group you are trying to study

The number of users of your product

The number of women in the US between the ages of 25 - 34 with college degrees

The probability your sample accurately reflects the population you are studying.

95% is the industry standard

The range, as a percentage, that your population's responses will deviate from the answers of the sample.

5% is the industry standard

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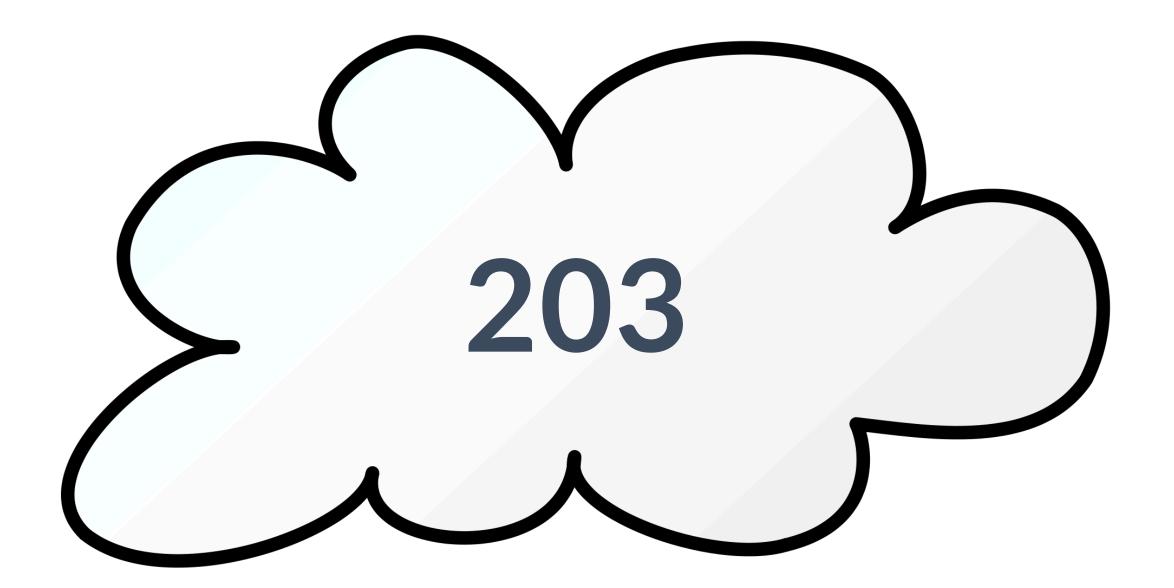


My user base is 425. How many survey responses do I need for a 95% confidence level and a 5% margin of error?





My user base is 425. How many survey responses do I need for a 95% confidence level and a 5% margin of error?

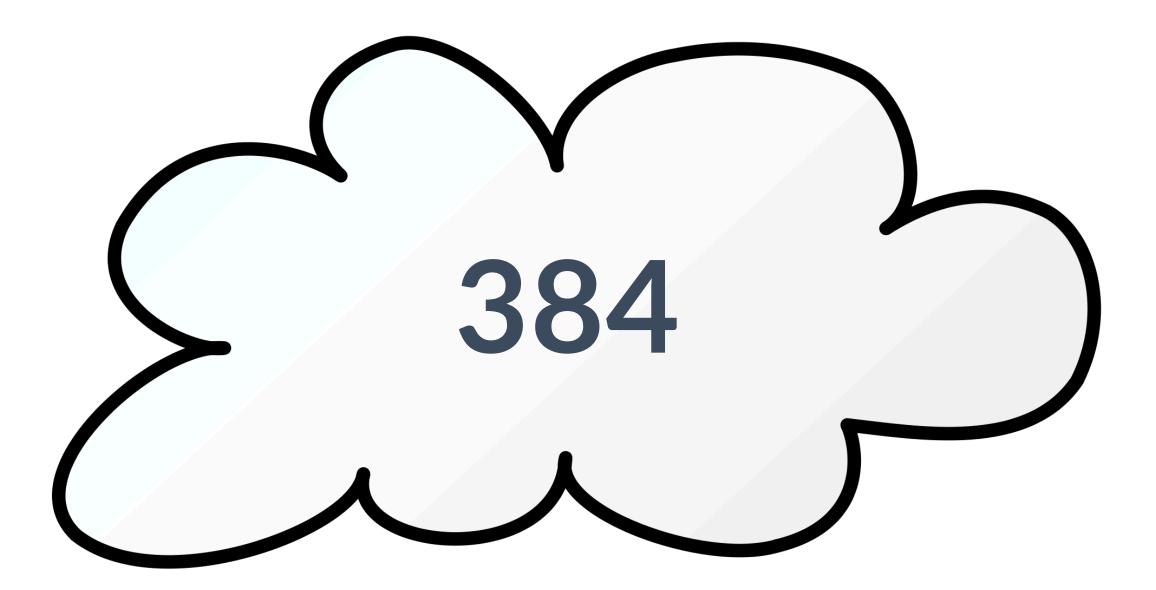




My user base is 500,000. How many survey responses do I need for a 95% confidence level and a 5% margin of error?



My user base is 500,000. How many survey responses do I need for a 95% confidence level and a 5% margin of error?

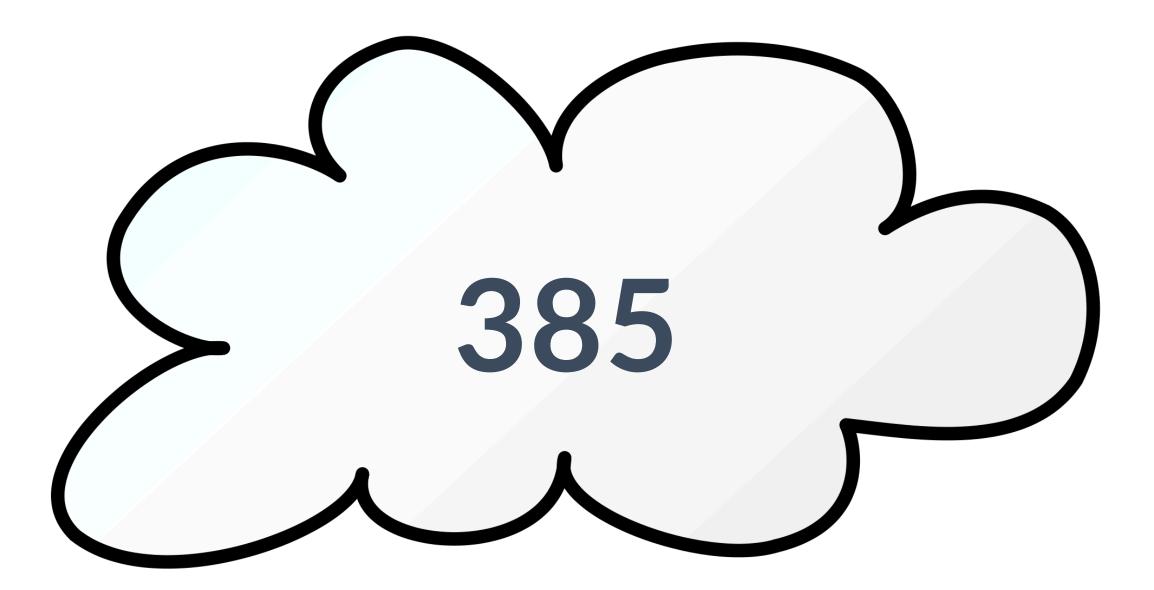




My population size is about 5,000,000. How many survey responses do I need for a 95% confidence level and a 5% margin of error?

# How many respondents do you need?

My population size is about 5,000,000. How many survey responses do I need for a 95% confidence level and a 5% margin of error?



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## Invitation Tips



Auto-populate with names and titles.



#### **CHANGE THE MESSAGE**

If the first message isn't getting enough responses try another.



#### **BREVITY**

Keep it short and to the point.



#### **BE CLEAR**

Provide step-by-step instructions.



#### **CHANGE THE MEDIUM**

Try snail mail, email, text messages...



#### **BE TRANSPARENT**

Tell them how the information they give will be used.

# Point of contact

Who ya gonna call?

### Monitor Your Progress





### Have a data analysis plan

What are your objectives for the data?

1

What variables do you want to use in your cross tabs?

2

Additional data analysis?
Conjoint? Regression? Text analytics?

3

Will you need special software to run the analysis?

4



### Clean Your Data



#### **REMOVE**

- Extreme outliers
- Respondents who didn't answer all of the questions
- Respondents who used red herring answers
- Respondents who straight-lined



#### **ASSESS**

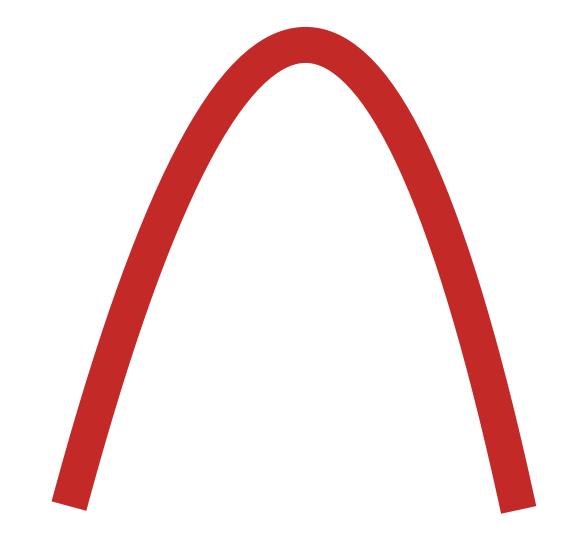
Do you still have the sample size you need? Yes? Go on to the analysis.

No? Only remove the worst 20% of the iffy responses or get more respondents.

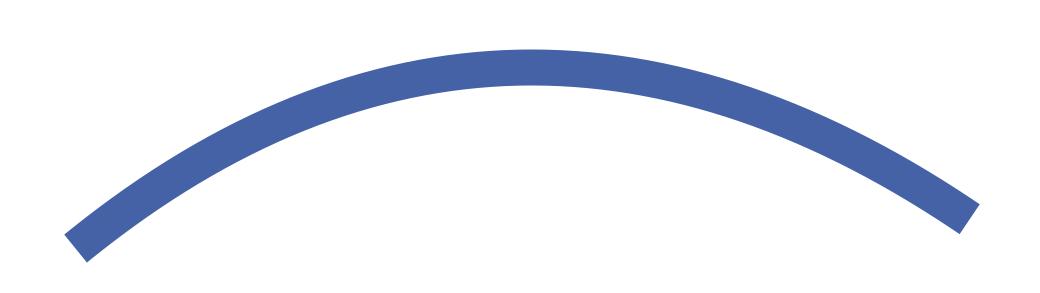
### What does standard deviation mean?

Low Number

High Number



Homogeneous Data



Heterogeneous Data

### Top 2 Boxes/Percent Positive

Analyzing scale data

- When analyzing scale data calculate the percentage of respondents that chose the top 2 boxes
  - 5 point scale = top 2 boxes
  - 7 point scale = top 3 boxes

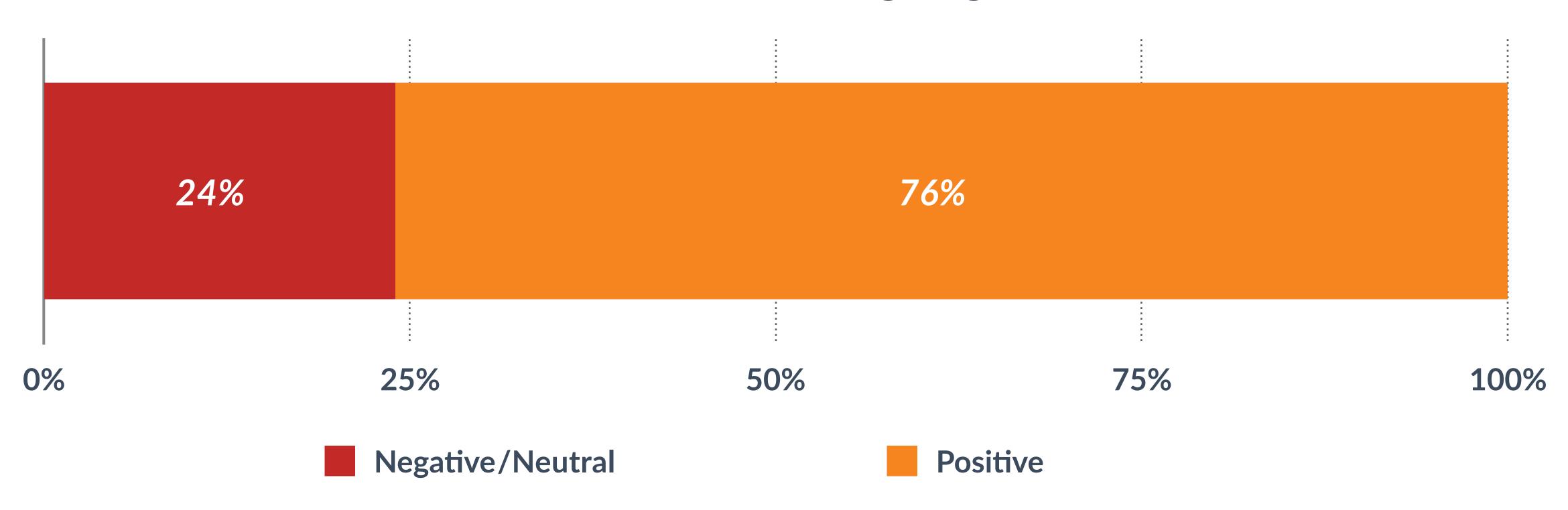
	It's really bad	It's kind of bad	Neutral	It's pretty good	I'm having a great time
Responses	1	24	19	59	78
% of Total	0%	13%	11%	33%	43%
Top 2 Boxes				76%	



### Top 2 Boxes/Percent Positive

Graphing scale data

#### How is the conference going so far?





# Key Takeaways Yes, take a photo of this slide

- Surveys are a UX problem you can solve.
- Keep it short. 10 minutes or less.
- Make them mobile first. Vertical. Concise. Abandon grids. Limit open ends.
- Make all scales balanced Likert scales. 5s or 7s. Analyze using Top 2 (or 3) boxes.
- Have a plan for the data before you write the survey.
- Incentivize. Incentivize. Incentivize.
- Use a sample size calculator, but 400 is the magic number.
- Test your survey and rehearse deployment.
- Clean your data before analysis. What are you doing to ensure data quality?



# Further Reading



Internet, Mail, and Mixed-Mode Surveys
- The Tailored Design Method

Don A. Dillman, Jolene D. Smyth, and Leah Melani Christian



**Questionnaire Design** 

Ian Brace



**People Are Not Robots** 

Annie Pettit, PhD

### Online Sources



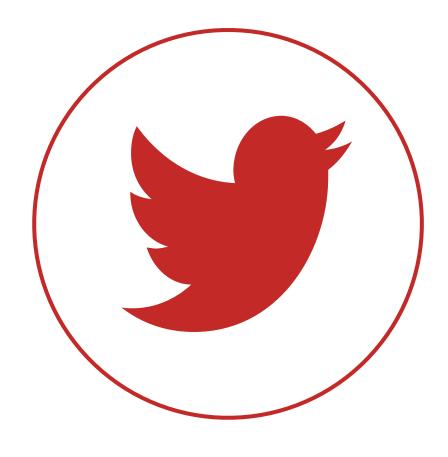
**NewMR** 

Hashtag #NewMR
Twitter @NewMR\_News
Youtube "NewMR Videos"



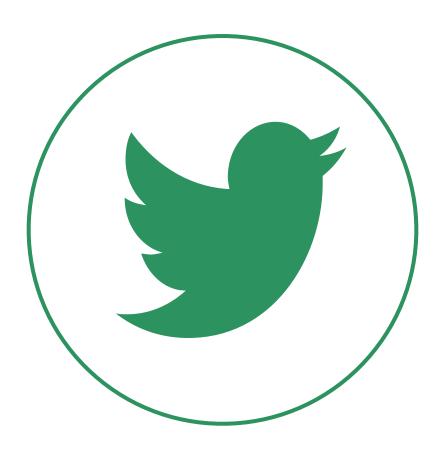
Annie Pettit, PhD

Twitter @LoveStats



**Jeffrey Henning** 

Twitter @JHenning



Ray Poynter

Twitter @RayPoynter



# THANKYOU

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