Questionnaire



Questionnaire

- a set of questions organized in a certain way to get the required information from respondents
- an instrument for delivery of questions to respondents and getting back their answers
- a form for precise and complete recording of obtained information



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- 1. Process of questionnaire design
- 2. Variables
- 3. Scales
- 4. General "get up"

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- 1. Process of questionnaire design
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1. Process of a questionnaire design

- a) Specification of the information needed in researchable format
- b) Selection of interview method
- c) Determination of question composition
- d) Determination of individual question content
- e) Developing question order, form and layout
- f) Pilot testing of the questionnaire

- Process of a questionnaire design
 a) Specification of the information needed in researchable format
- problem definition, objectives
- areas related to the required information

 conceptual framework of questions (eg. concepts – satisfaction, service quality, brand image, brand equity...)



Process of a questionnaire designb) Selection of interview method

Personal x mail x telephone x internet

- personal interaction, feedback => complex, long questions, visual elements
- telephone short, little complexity, few possible answers
- internet simple questions

influence also on the scaling

Open-ended

- primarily used in exploratory research
- +:
 - to express attitude, opinions
 - rich insight
- - :
 - if recorded by writing, based on the skills of the interviewer
 - creating coding and interpretation

Open-ended

- types:
 - free

Why have you bought a car?

association

What do you imagine when you hear "Philips"?

unfinished sentences

The most important criterion when buying a car is

Closed

pre-defined format of answers

- +:
 - amount of thinking and effort reduced, easy-to-answer
 - interviewer bias eliminated
 - quick coding, easier to analyze
- -:
 - lack of depth and variety
 - the list of answers may not cover all possible answers
 - answers may not truly reflect respondents' opinions

Closed

- types:
 - dichotomous two alternatives: Do you own a car? □ Yes □ No
 - trichotomous if one alternative is added (e.g. "I don't know")
 - multiple choice more alternatives to choose from
 - scale questions
 - verbal, graphic, numerical
 - nominal, ordinal, interval, ratio
 - paired comparison, rank order, constant sum scale, Likert scale, semantic differential

Multiple choice questions

What brand of a car do you own?

□ Skoda	□ Fiat
□ Volkswagen	□ Mercedes
□ Audi	\Box BMW
□ Mazda	□ Toyota
□ Other, please si	pecify

Multiple choice questions based on selection - only one answer from the offered alternatives

Where is the shop located?

- 1. Main street
- 2. Secondary street
- 3. Out of the town centre
- 4. Out of the town centre housing area (block of flats)
- 5. In town shopping centre
- 6. Edge of the town shopping centre

How do you perceive the price?

- 1. High 2. Rather higher
- 3. Average
- 4. Rather lower

Multichoice questions based on specification - allow multiple responses

Where do you search for information on employee's further education? Please mark all sources of information you use.

	Source of information on possibilities of employee education	
2.1	Internet (web pages of schools and institutions offering education)	
2.2	Postal offer	
2.3	Specialized portals of education with offers of various institutions	
2.4	References	
2.5	Personal experience	
2.6	We do not search	
2.7	Other, pleasespecify:	

1. Process of a questionnaire designd) Determination of individual question content

- be clear and precise

 How many cups of coffee do you drink in a typical workday? ____ (write in number)
- responses mutually exclusive and exhaustive

 Which season do you prefer for your main holiday spring, summer, autumn, winter?
- natural and familiar language
- ask one question at a time
- provide appropriate time referents (no recently, often!!!)
- balanced scales
- complete sentences
- distinguish undecided from neutral

1. Process of a questionnaire design

d) Determination of individual question content

OFTEN MISTAKES

double-barrelled questions

"Do you think you will purchase this product for low price and high quality?" "Are you happy in your family and at work?"

wrong possible answers

"What is your hair colour?" Brown or black?

all in one question

"Please name all jobs you have had during the last 5 years, your positions and functions, your salary and reasons why you left."

vague quantifiers

"Do you go often dancing?"

general questions

"What do you think about the Middle East?"

jargon, professional slang

"Do you think that the high inflation rate was caused by the national bank influencing the currency exchange rate towards depreciation?"

leading questions

"Do you think immigration is hurting the local economy and making locals lose their jobs?" "Why are you happy as an employee of our company?"

Process of a questionnaire design d) Determination of individual question content

OFTEN MISTAKES

- negative questions
 - "Don't you want to go to Bulgaria this year?"
- questions about the opinion of someone else
 - "Do you think that your parents were satisfied with the new shopping centre?"
- examining questions
 - "Do you know what is an engagement and reach when talking about social networks?"
- asking respondents to make unnecessary calculations
 - "What is the average milk consumption per person in your family per month?"
- unequal comparisons
 - "Do you prefer a holiday in Liberec, Prag, Italy or Cuba?
- unequal scales
 - "How satisfied are you with your job?" very satisfied rather satisfied satisfied very dissatisfied
- questions for that respondent doesn't have a ready-made answer
 - "What did you eat Wednesday two weeks ago?"
- socially sensitive or personally embarrassing questions
 - "Are you able to run 3,000 m?"
 - "Do you read regularly books?"

- 1. Process of a questionnaire designe) Developing question order, form and layout
- three main parts:
 - forward and opening questions
 - specific information questions
 - generic information questions
 - classification questions => classification data

data about a subject of a research (hard and soft data)

- identification questions => identification data
- clear order, symmetry

1. Process of a questionnaire designe) Developing question order, form and layout

What variables should be included in the classification data if the respondent is a) an individual

b) a company

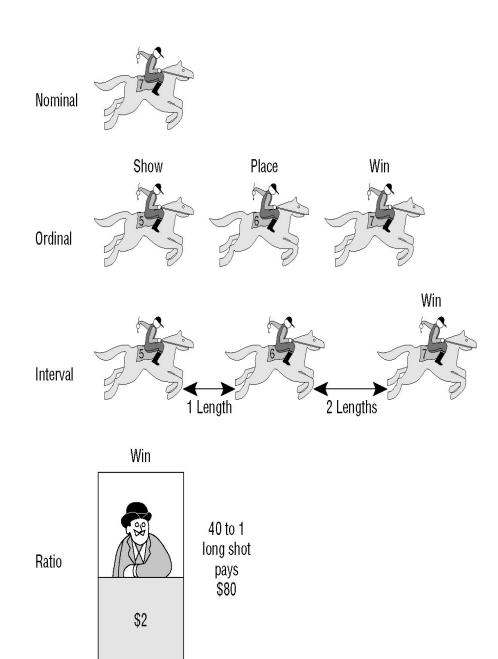


- Process of a questionnaire designf) Pilot testing of the questionnaire
- coding
- pilot testing
- amount of thinking and effort reduced
- interviewer bias eliminated

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- 3. Scales
- 4. General "get up"

- nominal
- ordinal
- interval
- ratio
- => provide different information



Nominal

- labelling scheme, categories
- examples:

```
zip code of residence
employment status
marital status
gender
race
religion
```

Ordinal

- hierarchical order, no distance
- examples: level of education, level of customer satisfaction (satisfied – neutral – dissatisfied), most preferred to less preferred

Interval

- order and distance
- example:

What is your age group?

- younger than 20 years
- − 21 − 30 years
- − 31 − 40 years
- − 41 − 50 years
- − 51 − 60 years
- more than 61 years

Ratio

- order, distance and difference
- examples:
 - Market share
 - Sales (units and dollars)
 - Income
 - Number of salespersons per territory
 - Number of full-time employed members of the household
 - Number of children in the household

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3. Scales

Different ways to ask the same question can yield different responses.

Ex	Examples of rating scale configurations									
Ho	w likely would	you be t	o buy G	randma's P	each Cob	bler?				
1.	Very likely			-			Very unlikely			
2.	Very likely	1	2	3	4		Very unlikely			
3.	□ Very likely □									
	☐ Very unlike	ely								
4.	Very likely	Likely	Ui	ncertain	Unl	ikely	Very unlikely			
5.	Very likely L		1	1	V	ery unlikely	,			
6.	Very likely	+2	+1	0	-1	-2	Very unlikely			

3. Scales - rating scales - types

verbal

almost always - sometimes - every once in a while - rarely - never very interested- somewhat interested- neutral - not very interested - not at all interested very much - somewhat - neutral - not really - not at all very much like me - somewhat like me - neutral - not really like me - not at all like me very happy - somewhat happy - neutral - not very happy - not at all happy

• graphic 😂







numerical

Evaluate this package using a scale from 1 to 10 - 1=the best, 10=the worst.

3. Scales Scaling techniques I.

- paired comparison
 - e.g. product testing Coca-Cola
- rank order
 - various objects to rank, the most preferred, the 2nd most preferred...
- constant sum
 - to assign a constant sum to a set of objects
- rating scales
 - single concept

Example: constant sum

What percent of your sales come from the following?

Enter only whole numbers. No decimal point or percent sign.

Mail Order	%
Phone Order	%
Walk-In	%
Other	%
Total 0	(total must equal 100)
Continue C	ontinue with the next survey item

Example: Rating scale

Rating Scale to Measure Relative Importance of Choice Attributes

	Not Important	Slightly Important	Important	Very Important	Extremely Important
Fair prices	NI	SI	I	VI	EI
Neat	NI	SI	I	VI	EI
Friendly personnel	NI	SI	I	VI	EI
Convenient location	NI	SI	I	VI	EI

3. Scales Scaling techniques II.

Likert scale

- series of statements about the object's degree of (dis)agreement
- measures attitudes
- strongly agree agree uncertain disagree strongly disagree
- strongly agree agree agree somewhat undecided disagree somewhat disagree strongly disagree

Please cross the number that represents how you perceive advertising.	Strongly agree				Strongly disagree
Advertising is an important source of information for consumers.	1	2	3	4	5
Advertising makes an important contribution to modern living standard.	1	2	3	4	5
Advertising is socially undesirable and a wasteful use of resources.	1	2	3	4	5
Advertising increases the prices we have to pay for products.	1	2	3	4	5

Likert scale

A Likert Scale to Measure Consumer Beliefs About Duncans Department Store

Item	Strongly Agree	Agree	Agree a Little	Disagree a Little	Disagree	Strongly Disagree
Duncans Department Store has lower prices than competitors'.	SA	Α	AL	DL	D	SD
Merchandise displays at Duncans Department Store are messy.	SA	A	AL	DL	D	SD
Clerks at Duncans Department Store are not very friendly.	SA	Α	AL	DL	D	SD
The downtown Duncans Department Store is a convenient location.	SA	· A	AL	DL	D	SD

Likert scale

Likert Scale

Please indicate by checking (X) the appropriate category the extent to which you agree with the following statements about Kmart.

	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
The store has an inviting atmosphere.					
2. The clerks are knowledgeable.				 	
3. The store's checkout lines move slowly.		1. 570.0 s		er E. 1.2. 1.	570 S
4. The store offers a wide product assortment.	2250 S	: :		-	
5. The store has an unattractive interior.		F			
6. The clerks are unfriendly.) 	N		

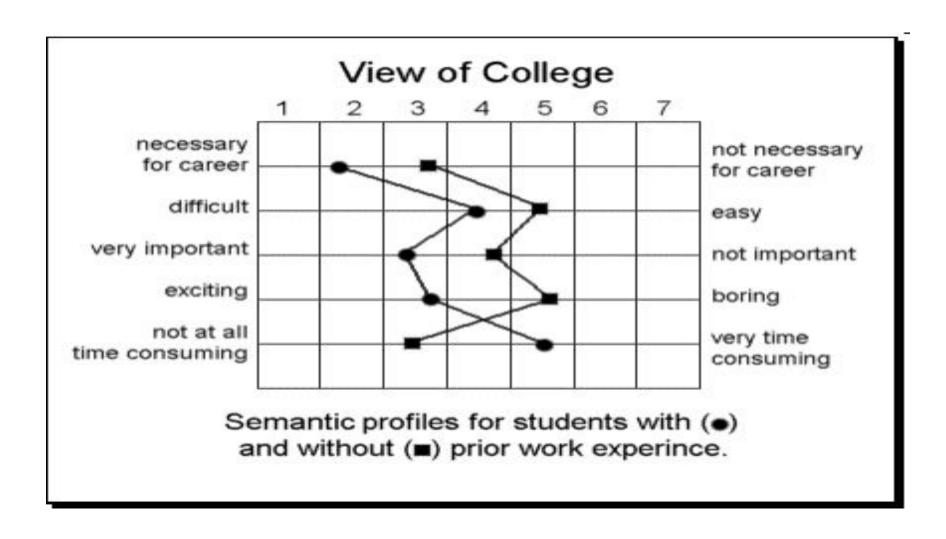
3. Scales Scaling techniques III.

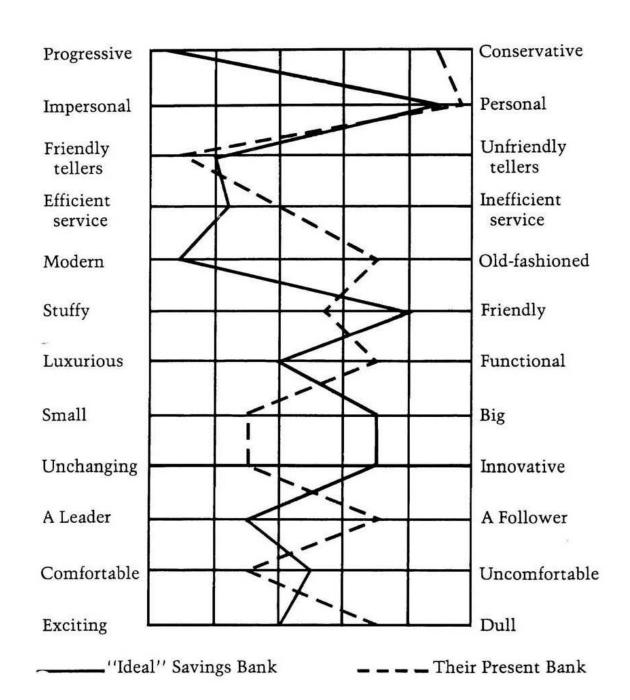
Semantic differential

- bi-polar scale with bi-polar adjectives/phrases (active-passive, false-true, slow-fast)
- to quantify the intensity and content of attitudes
- many applications: people, products, events

How do you view the college?								
Necessary for career	1	2	3	4	5	6	7	Not necessary for career
Difficult	1	2	3	4	5	6	7	Easy
Very important	1	2	3	4	5	6	7	Not important
Exciting	1	2	3	4	5	6	7	Boring
Not at all time consuming	1	2	3	4	5	6	7	Very time consuming

Example: Semantic differential - output





Example: Semantic differential

6. Please rate the Package Image

	-3	-2	-1	0	1	2	3	
A. Low Quality	0	0	C	0	0	0	0	High Quality
B. Economical	0	0	C	0	0	0	0	Luxurious
C. Masculine	0	0	0	0	0	0	0	Feminitne
D. Flavorless	0	0	0	0	0	0	0	Flavorful
E. Mild	0	C	0	0	0	0	0	Powerful
F. Light	0	0	0	0	0	0	0	Rich
G. Cold	0	C	0	0	0	6	C	Warm
H. Delicate	0	0	0	0	0	0	0	Bold
I. Impersonal	0	C	C	0	0	0	0	Personal
J. Contemporary	0	0	C	0	0	0	0	Traditional
K. New	0	0	0	0	0	0	0	Established
L. Casual	0	0	0	0	0	0	0	Formal
M. Wholesome	0	C	0	0	0	C	0	Exotic
N. Serious	0	0	0	0	0	0	C	Fun
O. Standard	C	C	0	0	0	0	0	Unique
P. Integrity	0	0	0	0	0	0	C	Unworthy
Q. Child	0	0	C	0	0	0	0	Adult

Semantic differential

Semantic Differential Scale

Going to Florida on spring break is:

important		:	- :	· :	· ·	• • ———	- : 	unimportant
worthless				:	. :	· :	-:	valuable
good		.:	.:	. :	-:	-:	_:	bad
rewarding		.:	• :	.:	.:	- :	- : 	punishing
useful		.:	-:	.:	.:	-:	_ :	useless
pessimistic		. ;	.:	.:	.:		-:	optimistic
hard		. :	• • • • • • • • • • • • • • • • • • • •	·:	. :	- :	- :	soft
boring		.:	•	.:	.:		- : 	interesting
active		.:	• •	- : <u></u>	· : ——	- : 	-:	passive
compulsor	у	:	- •	:	• •	-:	_:	voluntary
serious		. :	· :	.:	-:	-:	-:	humorous
pleasant		.:	· :	·:	-: <u></u>	_:	_:	unpleasant

Selected scales

		Quality			
Excellent	Good	Fair	Poor		
Very good	Fairly good Neither good nor bad		Not very good	Not good at all	
Well above average	Above average	Average	Below average	Well below average	
		Importance			
Very important	Fairly important	Neutral	Not so important	Not at all important	
		Interest			
Very interested		Somewhat interested	d	Not very interested	
		Satisfaction			
Completely satisfied	Somewhat satisfied	Neither satisfied nor dissatisfied	Somewhat dissatisfied	Completely dissatisfied	
Very satisfied	Quite satisfied	Somewhat satisfied	Not at all satisfied		
		Frequency			
All of the time	Very often	Often	Sometimes	Hardly ever	
Very often	Often	Sometimes	Rarely	Never	
All of the time	Most of the time Some of the time		Just now and then		
		Truth			
Very true	Somewhat true	Not very true	Not at all true		
Definitely yes	Probably yes	Probably no	Definitely no		
		Uniqueness			
Very different	Somewhat different	Slightly different	Not at all different		
Extremely unique	Very unique	Somewhat unique	Slightly unique	Not at all unique	

3. Scales - appropriateness

- length
- even or odd
- labelled or unlabelled

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4. General "get up"

- appearance of questionnaire
- length of questionnaire
- introduction to respondents
- instruction for completion
- cover letter

Bad layout

Start Here

1) During the past 30 days, how often did pain interfere with your daily activities such as your job, working around the home, or social activities?

			ll of most of the time ome of the time	3) A little of the time		4) None of the time
0.	Du	iring th	ne past 30 days, how o	often have you had	pair	n?
	2)		day een 4 and 6 days a weel een 1 and 3 days a weel			
	05:02:00		than once a wee			
	250	Nev				
3)		d you f t week	eel any pain ?		4)	Do you wear eye glasses? Virtually all of the time1 Usually just to read2
		yes				Rarely3
		no				Never4
0	Is	it diffic	ult for you to walk?			
	-	_alwa	yssometimes	occasionall	y	never
6.	W	hat is t	he furthest you could p	orobably walk with	out s	itting down and resting?
			cross the room and bac stairs; △ up several flig			ss the room and back; 🗅 up a
7.			s the last time you wer	e	0.	On average, how often
			or's office?			do you visit a doctor's office?
		this we	ek			a every week
		last we	ek			b 2-3 times per month
		before	that			C once a month
						D less than once a month

Better layout

Pain and How It Influences Daily Activities: A Research Study

START HERE

pain interfere with your daily activities such as your job, working around the home, or social activities? All of the time Some of the time	☐ Always ☐ Sometimes ☐ Occasionally ☐ Never					
☐ A little of the time ☐ None of the time	6 What is the furthest you could probably walk without sitting down and resting?					
 ② During the past 30 days, how often have you had pain? □ Every day □ Between 4 and 6 days a week □ Between 1 and 3 days a week □ Less than once a week □ Never 	Once across the room and back Several times across the room and back Up a flight of stairs Up several flights of stairs Further When was the last time you were in a					
Obid you feel any pain last week? ☐ Yes ☐ No	doctor's office? This week Last week Before that					
 Do you wear eye glasses? □ Virtually all of the time □ Usually just to read □ Rarely □ Never 	On average how often do you visit a doctor's office? Every week 2-3 times per month Once a month Less than once a month					

Cover letter appeals

Social utility

Help-the-sponsor

Egoistic

Combined appeal

"Your assistance is needed!! Your attitudes and opinions can provide information that contributes to understanding how consumers can be better served by local retail shopping facilities. . . . Your cooperation is truly appreciated." "We need your assistance!! Your attitudes and opinions are very important to our successful completion of this study. . . . We truly appreciate your cooperation." "Your opinions are important!! It's important for you to express your opinion so Madison's retailers will know the type of products and shopping facilities you would like to have available. . . . Thanks for expressing your opinions." "Your opinions are important and useful!! Your attitudes and opinions are important for three reasons: (1) they can provide information that leads to an understanding of how consumers can be better served by local retail shopping facilities; (2) they will enable Madison's retailers to know the types of products and shopping facilities you would like to have available; and (3) they will help us successfully complete this study. . . . Thank you for your cooperation."

Cover letter

Official letterhead

PULLMAN, WASHINGTON 99968

WASHINGTON STATE UNIVERSITY

DEPARTMENT OF RURAL SOCIOLOGY ROOM 23, Wilman Hall

Date mailed

April 19, 20XX

Inside address in matching type

What study is about; its social usefulness

Why recipient is important (and, if needed, who should complete the questionnaire)

Promise of confidentiality; explanation of identification number

Usefulness of study

Token reward for participation

What to do if questions arise

Appreciation

Title

Pressed blue ballpoint signature

Oliver Jones 2190 Fontane Road Spokane, Washington 99467

Bills have been introduced in Congress and our State Legislature to encourage the growth of rural and small town areas and slow down that of large cities. These bills could greatly affect the quality of life provided in both rural and urban places. However, no one really knows in what kinds of communities people like you want to live or what is thought about these proposed programs.

Your household is one of a small number in which people are being asked to give their opinion on these matters. It was drawn in a random sample of the entire state. In order that the results will truly represent the thinking of the people of Washington, it is important that each questionnaire be completed and returned. It is also important that we have about the same number of men and women participating in this study. Thus, we would like the questionnaire for your household to be completed by an adult female. If none is present, then it should be completed by an adult male.

You may be assured of complete confidentiality. The questionnaire has an identification number for mailing purposes only. This is so that we may check your name off of the mailing list when your questionnaire is returned. Your name will never be placed on the questionnaire.

The results of this research will be made available to officials and representatives in our state's government, members of Congress, and all interested citizens. You may receive a summary of results by writing "copy of results requested" on the back of the returns envelope, and printing your name and address below it. Please do not put this information on your questionnaire itself.

I would be most happy to answer any questions you might have. Please write or call. The telephone number is (509) 335-8623.

Thank you for your assistance.

Sincerely,

Don A. Dillman Project Director