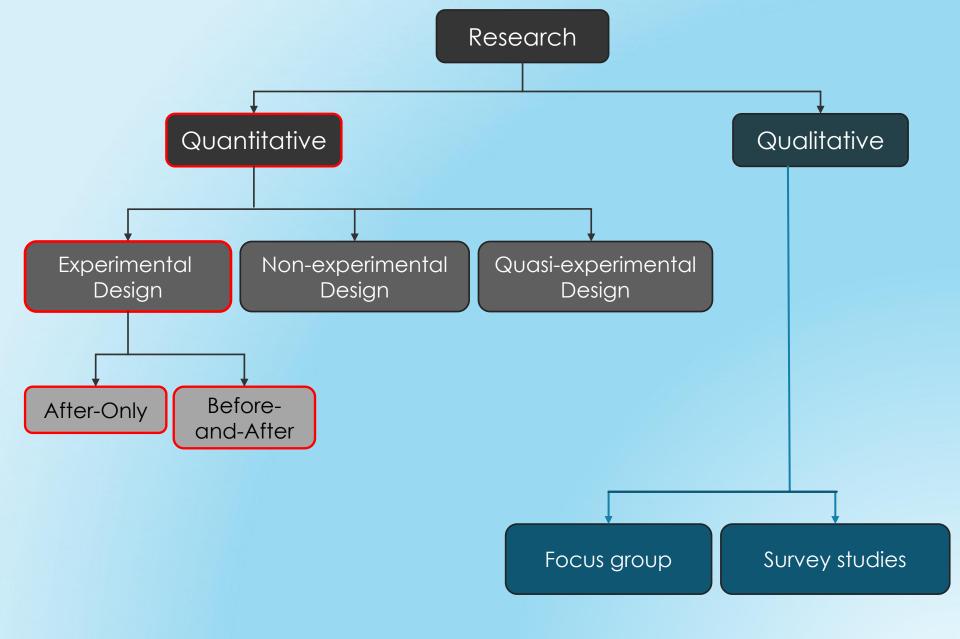
BACS2042 Research Methods

General Types of Research
Designs and Approaches



Research

Quantitative

Qualitative

- Explaining phenomena by collecting numerical data.
- Analyzed using mathematically based methods (e.g.: statistics).

- Concerned with qualitative phenomena.
- E.g.: Investigating the reasons for human behavior.
- Aims at <u>discovering the</u> <u>underlying motives</u> and desires using in depth interviews

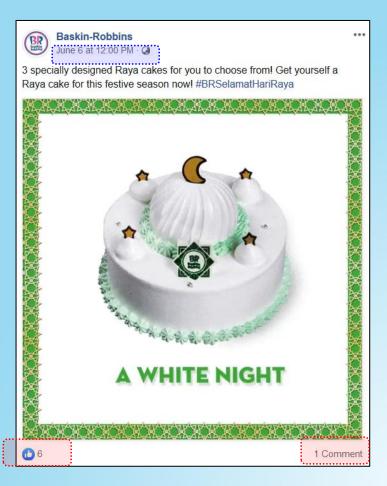




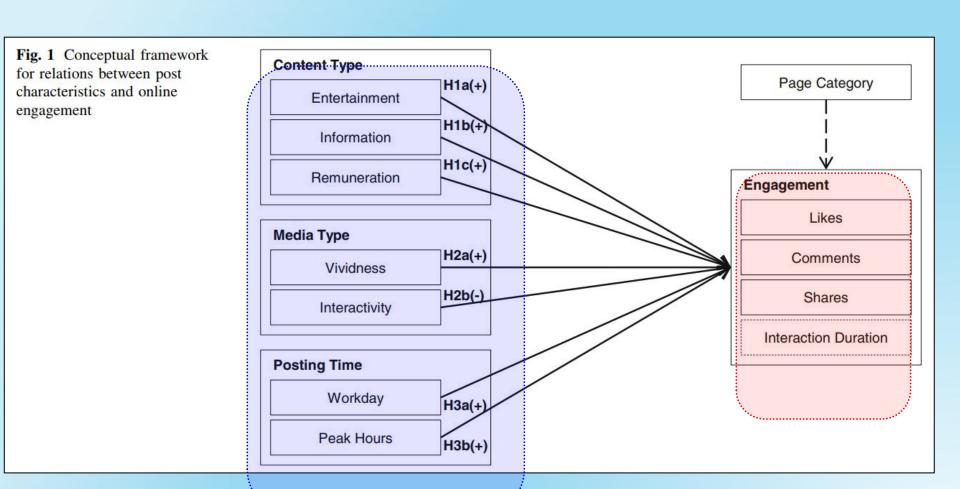
Paper: Online engagement factors on Facebook brand pages



Media Type



Online engagement factors on Facebook brand pages



Conceptual Framework

Objective

To analyze the factors that influence the level of online customer engagement in Facebook

Research Question

- Which content should be posted to get higher level of online engagement? (media type and content type)
- When the content should be posted?

Hypothesis Formulation

"Previous studies showed that consuming entertaining and informative content is an important factor for participation in brand communities (Dholakia et al. 2004; Raacke and Bonds-Raacke 2008), where entertainment was found to have a stronger effect (Park et al. 2009)."

"Previous studies over temporal interaction patterns showed that most of the user activities on Facebook are undertaken during the workdays (Golder et al. 2007). Similarly, a study on online advertisement reported that the volume of CTR drops significantly over the weekend (Rutz and Bucklin 2008)."

Hypotheses

H1: Posts which contain <u>entertaining</u> content cause the highest level of engagement.

H2: Posts created on workdays result in higher level of engagement

Paper: Additive Facebook use among university students



Objective

To explore the phenomenon of Facebook addiction among university students.

Facebook Addiction

"Excessive Facebook use has been found to harm psychological and social well-being of individuals and their personality [2]. Larkshmi [3] claims that for those who are addicted to Facebook and their personal life truly interrupted by their uncontrolled activities on Facebook. As further clarified, the following is the checklist for Facebook addiction disorder (FAD):

- 1. Check your Facebook account in the morning
- 2. Spend entire nights on the site, causing them to become tired the next day
- 3. Spend hours a day on Facebook
- 4. Whenever you are offline, you are just enjoying a daydream about the status updates and comment that have been received"

Interview

2.2 Theme One: Compulsion to Check Facebook

Participants shared many statements linked to their opinions about Facebook use becoming compulsive and using Facebook more often than they primarily expected. All of them also reported the same statements that Facebook is the most important activity in their lives and starts to control their thinking. For example, one male participant stated, "I always try to open my mobile phone and go on Facebook and then I am thinking 'why I am doing this?"

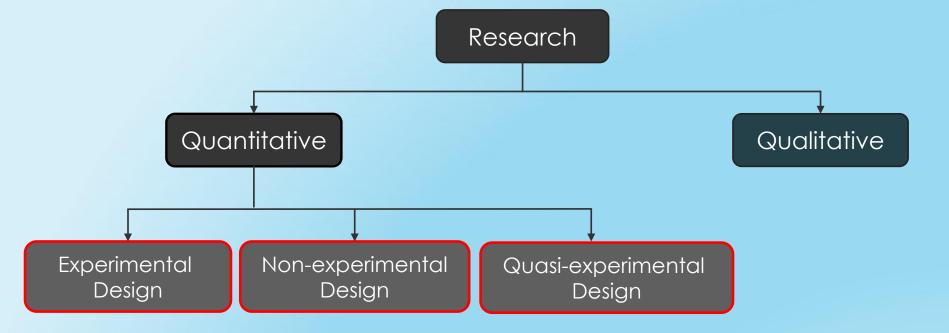
However, all male participants noted that they desired to be less Facebook usage, and neither of the female participants desiring to be less Facebook usage. One of the female participant stated, "I want to study more than past and get away from all of that." Of course, during interview, she took out her smartphone and attempted to found Wi-Fi to check her Facebook account. Other male participants told me "It becomes an addiction, I think I should stop this" in relation to desiring to avoid Facebook usage.

2.3 Theme Two: High Frequency Use

Many participants reported regularly using Facebook through the day and some of them reported they were using Facebook all the time. For example, one of the female participants had been spending approximately 5 hours per day checking her Facebook account. Other participants eventually spend all their free time on Facebook web page. One of the male participants stated "I used Facebook when I first wake up, throughout my workday, during lunch break". Female participants mentioned that many Facebook users post and share too much information on their page and it became an irresistible job for her to check the new status once a day. At that point she's overwhelmed with a lot of information and it is very difficult for her to catch up every read news or watch a news clip at once. Thus she spent lots of time out on Facebook, and devoted much of her day to catching up on any information, which missing out once she is back on Facebook.

Quantitative vs Qualitative

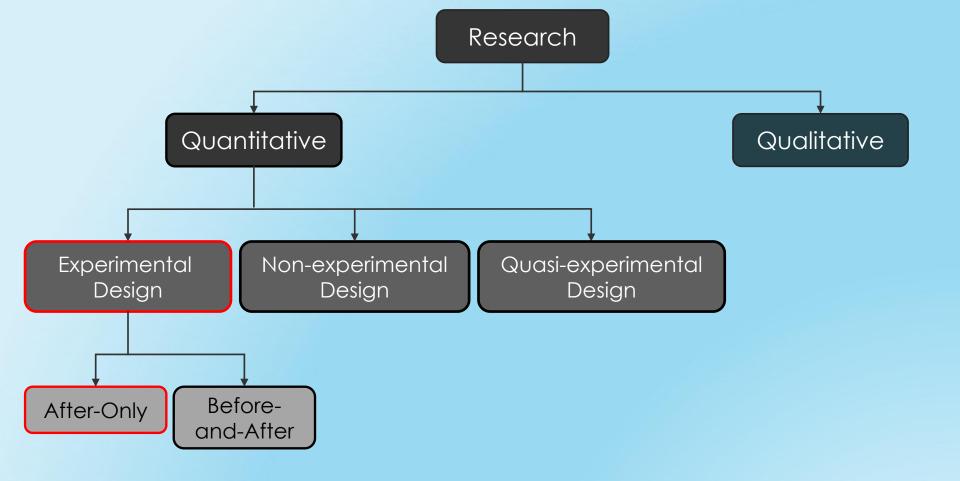
	Quantitative	Qualitative		
Main purpose of investigation	To quantify extent of variation in a phenomenon	To describe variation in a phenomenon		
Measurement of variables	Emphasize on			
	Measurement or classification of variables	Description of variables		
Sample size	Greater sample size	Fewer cases		
Focus of enquiry	Narrow focus in terms of extent of enquiry	Covers multiple issues		
Dominant research value	Reliability and objectivity (not value-free)	Authenticity		
Analysis of data	Subjects variables to frequency distributions, cross-tabulations or other statistical procedures	Subjects responses, narratives or observational data to identification of themes		



Experimental study involves the researcher manipulating the variable(s) and wait until it has produced the change. (dependent, independent var.)

"Observation under controlled conditions"





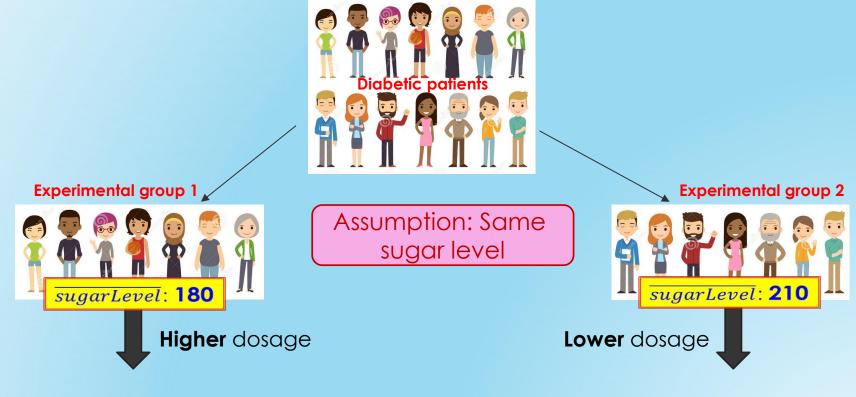
The change in the dependent variable is measured by the difference between the 'before' baseline and 'after' data sets.

Experimental: After-only

Example

To test a new drug to treat diabetes





sugarLevel: 140sugarLevel: 170

Experimental: Before-and-After

Example

■ To test a new drug to treat diabetes.



Experimental group 1



Higher dosage

Sugar level: 140

Experimental group 2

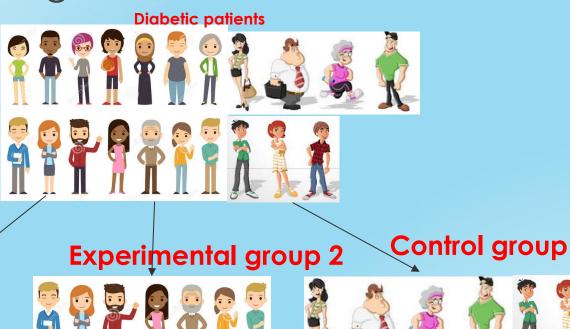


Lower dosage

Sugar level: 170

Experimental: Control Group

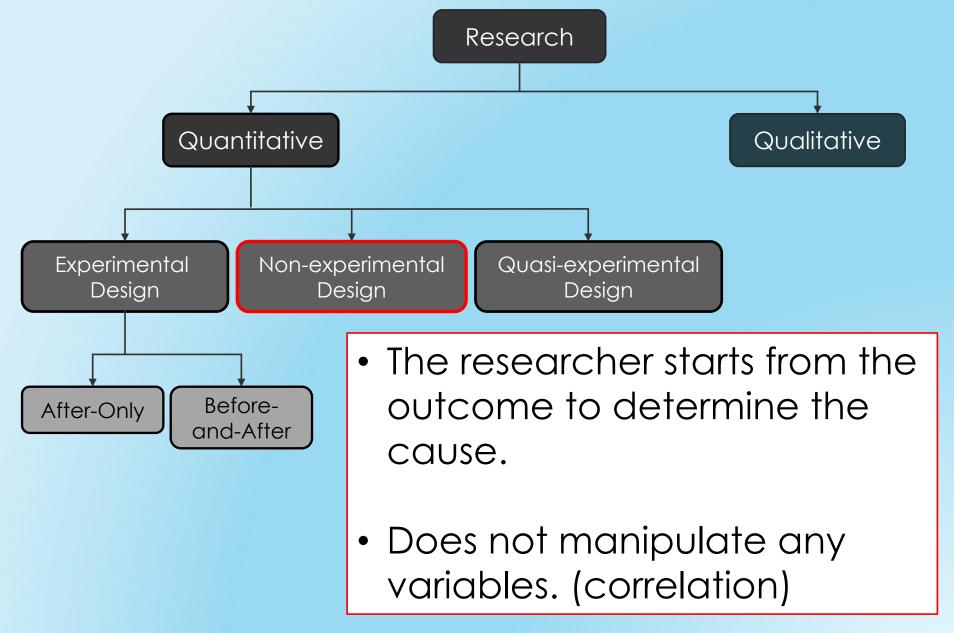
■ To test a new drug to treat diabetes.



Higher dosage

Experimental group 1

Lower dosage



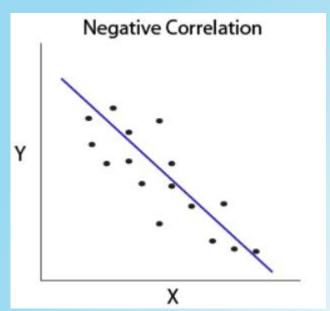
Example To test a new drug to treat diabetes.

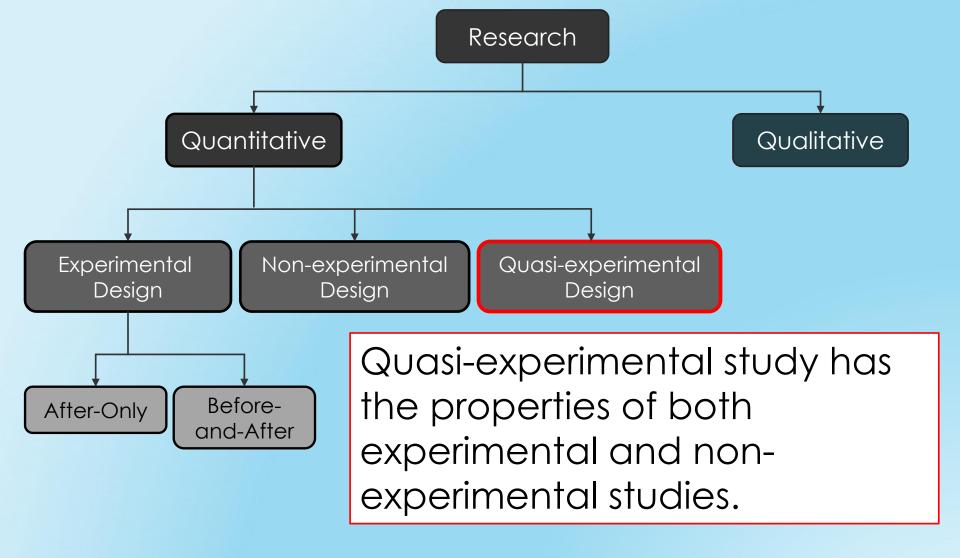
Manipulate X to see its effect on

Experimental			
	X (dosage), ml	Y (sugar level)	
	0.25	180	
	0.30	179	
	0.35	178	
	0.56	160	

Non-Experimental

Non-Experimental			
X (dosage), ml	Y (sugar level)		
0.25	180		
0.30	179		
0.35	178		
0.40	176		





Qualitative

- ► Focus Groups
- ■Survey Studies
- Others: case study, oral history, participant observation, holistic research, community discussion forums, etc.

Focus Groups

Design:

- Select a group of people (8-12 people)
 - The group could comprise individuals drawn from a group of highly trained professionals or average residents of a community
- Identify the issues for discussion
- Decide the process of recording the discussion
 - E.g. time to meet for discussion
- The records of the discussions become the basis of analysis for findings and conclusions.

Focus Groups

- Expensive
- Used traditionally by company to identify new product or investigate ways to improve existing products
- Lack of predictability

Survey Studies

- Larger sample size (participants)
 compared to focus group
- Structured nature of the questionnaire (survey results are quantifiable)
- Can be used to predict future behavior

Survey Studies

Disadvantages:

- Difficult to execute: hard to find large number of people to take the survey
- High cost going around looking for large number of people

Solution:

√ The Internet