IT'S NOT JUST ABOUT IF YOU LIKE IT

A REASONED ACTION APPROACH TO PREDICTING CONSUMER BEHAVIOR

April 2, 2019

Quirks Chicago



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About Me...

- Ph.D. in Social Psychology from Iowa State University
- Former Professor [some of my classes:]
 - Social Psychology
 - Motivation
 - Behavioral Science Research Methods
 - Health Psychology
- Joined KJT Group in 2018
 - **Analytics Associate**







FOUNDED 1847

SIMPSON

COLLEGE





Basic Concepts of Motivation

Hedonism

People approach what they like, and avoid what they don't like.

What type of product will people like?

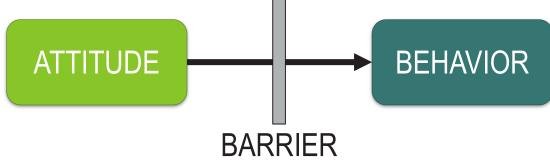
If I like it, I will buy it.
If I don't like it, I won't buy it.



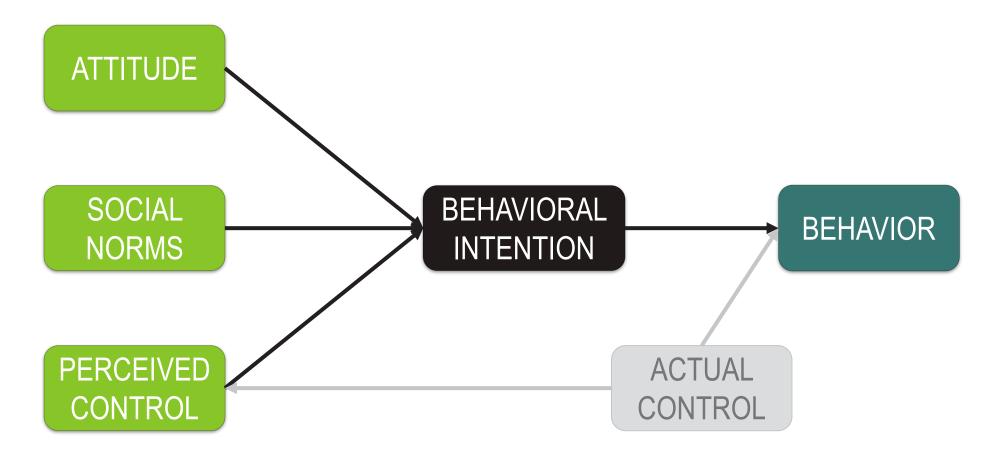
Barriers

If they like it, what will prevent them from obtaining it?

How do we remove barriers?









Assumption: Intentions are the precursor to behavior

Measuring Behavioral Intention

How likely are you to receive the new treatment?

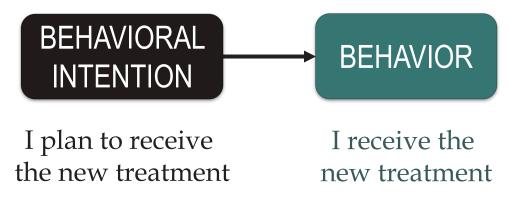
0 1 2 3 4 5 6 7 8 9 10

Not at all

Likely

Likely

For how many of your next 100 patients would you prescribe the new treatment?



I plan to prescribe the new treatment

I prescribe the new treatment



The Role of Actual Control

Actual Barriers

I planned to receive the new treatment

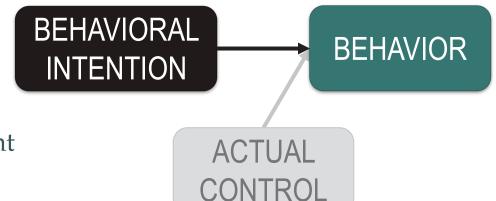
I didn't receive the new treatment

I thought my insurance company would cover the cost, but they denied my claim

I planned to prescribe the new treatment

I didn't prescribe the new treatment

I thought it would be approved by the FDA, but it wasn't.



Actual Behavior and Actual Control are best assessed in retrospective studies.

Predictive studies should focus on predictors of <u>behavioral intention</u>



Predictors of Behavioral Intention: Attitudes

Attitudes about the OBJECT

I like the cost of the new treatment

I like the ease of the new treatment

I like the features of the new treatment

I like the new treatment

Vs.

Attitudes about the BEHAVIOR

I like the idea of receiving the new treatment

I like the ease of receiving the new treatment

I like the benefits of receiving the new treatment

I like the process of receiving the new treatment



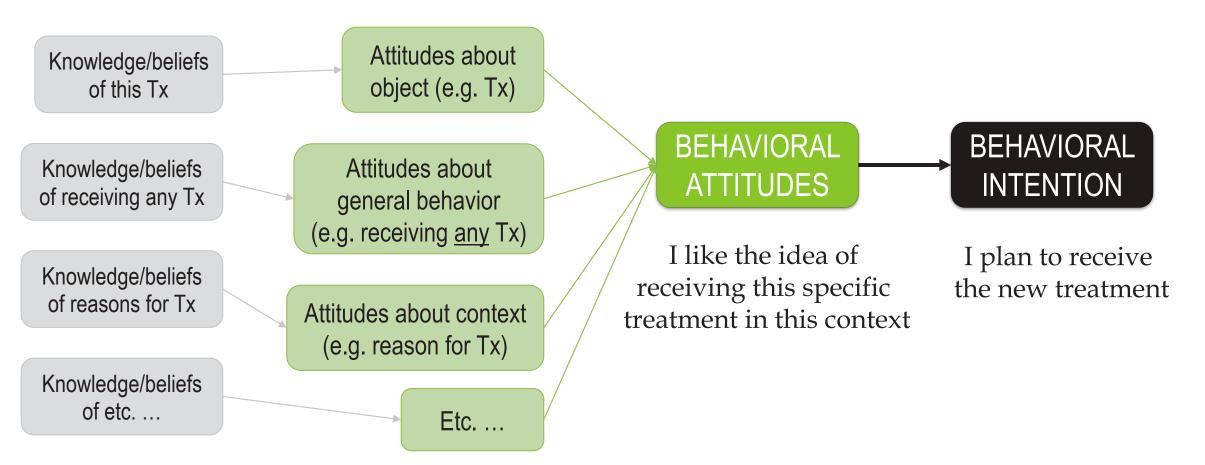
I plan to receive the new treatment

Treatment itself may be easy.

Steps to getting the treatment may not be.



Predictors of Behavioral Intention: Attitudes





Behavioral Attitudes as Predictors of Behavioral Intention

An Empirical Demonstration

- Methods
 - 88 respondents (64% female)
 - Series of questions about Company-Sponsored Wellness Program participation
 - Part of larger, 149 question study about wellness program participation (n = 1250)
 - 88 were those not currently participating in a program and asked the "likelihood to participate" question
 - 22 Likert-type items, answered by all 88 respondents, were the focus for this analysis
 - Target 22 items were a mix of different attitude objects:

How appropriate do you think it is for employers to offer each of the following type of wellness offerings? ... e.g. Weight, General Fitness

I am more productive at work because I have participated in wellness program activities.

Wellness programs are a waste of employer resources.

Based on what you know, how well do you feel your employer's wellness program offerings compare to those at other companies?

Employers are responsible for the health and well-being of their employers.



Behavioral Attitudes as Predictors of Behavioral Intention

An Empirical Demonstration

- Analyses Results
 - 1) Factor Analysis

Factor 1 Appropriateness – 6 items

- How appropriate do you think it is for employers to offer each of the following type of wellness offerings?
 - Weight, Financial, Stress Relief, Mental Health, General Fitness, Smoking Cessation

Factor 2 Behavioral Attitudes – 5 items

- I am more productive at work because I have participated in wellness program activities
- The well programs or benefits offered by my employer have had a positive impact on me

Factor 3 Barriers – 6 items

- Wellness programs are a waste of employer resources
- I don't have the extra time available to participate in company-sponsored wellness programs

Factor 4 Company Relations – 3 items

- The wellness programs or benefits offered by my employer make me feel like my employer cares about my well-being.
- My colleagues at work also participate in company-sponsored wellness programs.

Factor 5 Contribution – 1 item

How likely would you be to help organize a wellness program activity at your current employer?



Behavioral Attitudes as Predictors of Behavioral Intention

An Empirical Demonstration

- Analyses Results
 - 1) Factor Analysis
 - 2) Regression Analysis

Outcome Variable: How likely are you to participate in a company-sponsored wellness program in the next 3 months?									
Factor	В	Std. Error	p-value						
1. Appropriateness	13	.15	.366						
2. Behavioral Attitude	.63	.14	.000						
3. Barriers	.03	.16	.866						
4. Company Relations	24	.15	.099						
5. Contribution	.44	.09	.000						

Conclusion:

Items that ask about the specific behavior are more predictive of behavioral intentions.



Predictors of Behavioral Intention: Behavioral Attitudes

Measuring Behavioral Attitudes Direct Question(s)

How appealing is the idea of receiving the new treatment?

1234567Extremely
UnappealingNeutralExtremely
Appealing

BEHAVIORAL ATTITUDES

BEHAVIORAL INTENTION

I like the idea of receiving this specific treatment in this context

I plan to receive the new treatment

[Attitude Score]



Predictors of Behavioral Intention: Behavioral Attitudes

Measuring Behavioral Attitudes

Semantic Differential

Receiving the new treatment would be

Unappealing	1	2	3	4	5	6	Appealing
Exciting*	1	2	3	4	5	6	Frightening*
Harmful	1	2	3	4	5	6	Beneficial
Unpleasant	1	2	3	4	5	6	Pleasant

Scoring:

- 1. Reverse code the * item(s)
- 2. Average or sum = Attitude Score

BEHAVIORAL ATTITUDES

BEHAVIORAL INTENTION

I like the idea of receiving this specific treatment in this context

I plan to receive the new treatment

[Attitude Score]



Predictors of Behavioral Intention: Behavioral Attitudes

Measuring Behavioral Attitudes

Expected Utility/Outcome Evaluations

Ου	tcome Likelihood	Unlike	ly		Like				
A.	Tx would reduce symptom 1.	1	2	3	4	5	6	7	
B.	Tx would reduce symptom 2.	1	2	3	4	5	6	7	
C.	Tx would have side effect A.	1	2	3	4	5	6	7	

Ou	tcome Desirability	Undesirable					De	sirabl	е
a.	Tx would reduce symptom 1.	-3	-2	-1	0	1	2	3	
b.	Tx would reduce symptom 2.	-3	-2	-1	0	1	2	3	
C.	Tx would have side effect A.	-3	-2	-1	0	1	2	3	

Scoring:

Attitude Score = $(A \times a) + (B \times b) + (C \times c)$

BEHAVIORAL ATTITUDES

BEHAVIORAL INTENTION

I like the idea of receiving this specific treatment in this context

I plan to receive the new treatment

[Attitude Score]



Predictors of Behavioral Intention: Social Norms

- The Role of Peer Pressure
 - Can encourage or discourage intention

Measuring Social Norms

Direct Question(s)

How supportive would your spouse be of you receiving the new treatment?

1234567Extremely
UnsupportiveNeutralExtremely
Supportive

SOCIAL NORMS BEHAVIORAL INTENTION

Other people expect me to receive this new treatment

I plan to receive the new treatment

[Social Norm Score]



Predictors of Behavioral Intention: Social Norms

Measuring Social Norms

Importance and Influence

How supportive would the following people be of the Tx?

		Unsupportive							
A.	Spouse	1	2	3	4	5	6	7	
B.	Doctor	1	2	3	4	5	6	7	
C.	Parent	1	2	3	4	5	6	7	

How important are the following people's opinion in your decision?

		Unimportant					Very Important			
a.	Spouse	1	2	3	4	5	6	7		
b.	Doctor	1	2	3	4	5	6	7		
C.	Parent	1	2	3	4	5	6	7		

Scoring: Norm Score = $(A \times a) + (B \times b) + (C \times c)$

SOCIAL NORMS

BEHAVIORAL INTENTION

Other people expect me to receive this new treatment

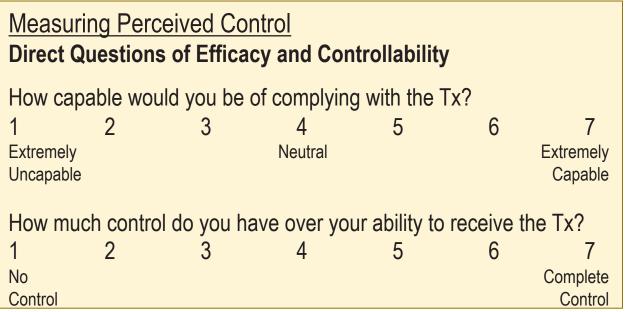
I plan to receive the new treatment

[Social Norm Score]



Predictors of Behavioral Intention: Perceived Control

- Self-Efficacy Beliefs
 - Do we have confidence in our ability to do it?
 - Do we expect barriers to prevent us?





I am confident I am able to receive the new treatment

I plan to receive the new treatment

[Perceived Control Score]



Predictors of Behavioral Intention: Perceived Control

Measuring Perceived Control

Barrier Evaluations

Barrier Likelihood Unlikely Likely
A. Tx will be costly 1 2 3 4 5 6 7
B. Tx compliance will be difficult 1 2 3 4 5 6 7

- a. If the Tx is costly, I will be less -3 -2 -1 0 1 2 3 more likely to receive the treatment
- b. If the Tx is difficult to comply with, I will be less -3 -2 -1 0 1 2 3 more likely to receive the treatment

Scoring:

Perceived Control Score = (A x a) + (B x b)

PERCEIVED CONTROL

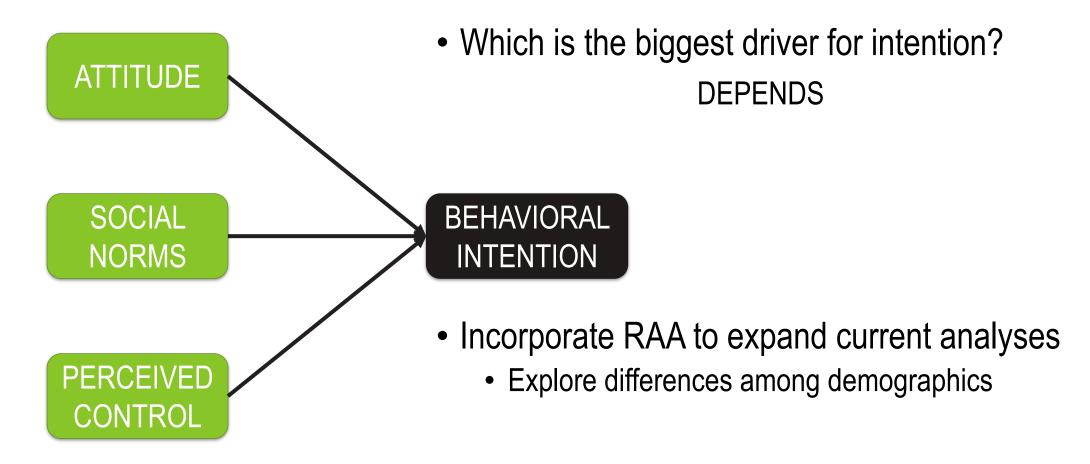
BEHAVIORAL INTENTION

I am confident I am able to receive the new treatment

I plan to receive the new treatment

[Perceived Control Score]







The Theory of Reasoned Action and Planned Behavior

 Which is the biggest driver for intention? Males **DEPENDS Females** BEHAVIORAL SOCIAI SOCIAL INTENTION **NORMS** Incorporate RAA to expand current analyses PERCEIVED Explore differences among demographics COPERCEIVED Segment into new groups for more differentiation



